



**Handbook**

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# Identified Uses of Hydrocarbon Substances

## 2026 Dossier Update

June 2026

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Prepared by the Concawe REACH Registration team and the Concawe Uses Special Task Force (STF-15/PSMG), under the supervision of Elisabetta Di Caprio (Concawe Science Executive) and Martin Faillace (Concawe Scientific Officer), with support from Concawe Exposure Special Task Force (STF-29/HMG).

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## 1. CONCAWE DEFINITIONS FOR PURPOSES OF THIS HANDBOOK

- “Identified Use” means a use as defined in Art. 3(24) of the REACH Regulation (EC) No 1272/2008.
- “Hydrocarbon Substances” are the substances listed on the Concawe website: (<https://www.concawe.eu/topics/reach-2>).

In response to the liquid fuel industry’s transition towards sustainable feedstocks, Concawe is expanding its substance coverage beyond petroleum-derived hydrocarbons to include renewable and co-processed substances. This handbook covers all substances in the current inventory including renewable deoxygenated diesel (RenewDD), co-processed diesel/gas oil from plant or animal origin, and co-processed naphtha from recycled plastics alongside petroleum-derived hydrocarbon substances. This broadened approach ensures that Concawe continues to support safe use and regulatory compliance for both traditional and emerging low-carbon fuels and feedstocks.

- “Categories of Hydrocarbon Substances” are listed in Section 3 together with the stand-alone substances (SNAP, Sulfur, Oxidized Asphalt, RenewDD and co-processed substances)

## 2. IDENTIFIED USES

Each year Concawe prepares a map of Identified Uses based on input provided from all registrants as a result of the Use Questionnaire survey. This Survey was launched in 2014 and requests from active REACH registrants an annual update on tonnages per use per substance per Legal Entity for the full previous year.

The template in the Use Questionnaires lists all the possible uses existing on the category/substance level. Only the uses with an active registration and active tonnages are listed in this document. The uses listed in this document therefore are those included in the 2026 IUCLID registration files for each substance.

When a specific use is missing in the Use Questionnaire template in SIEF space, a request for updates with new uses can be made by registrants. The REACH team of Concawe would review whether the request is valid, inform the registrant of potential safer alternative and whether safe use can be achieved with the appropriate RMM (Risk Management Measures)<sup>1</sup>. When valid, new Use Request will be added to the Use Questionnaires and be included in the registration dossiers as well if a registrant provide a tonnage for those uses.

This document is intended to be revised together with each annual dossier update. Please contact the SIEF team of Concawe ([admin@super-sief.eu](mailto:admin@super-sief.eu)) should you have any questions regarding this list or if you wish to add a new use.

The mapping has been done by grouping applications into Concawe Generic Exposure Scenario (GES) titles and noting associated uses according to the Use Descriptor System defined by ECHA. These Use Descriptors are designed to describe how products are used in the supply chain. The latest version (v3.0) of the Use Descriptor System Guidance (R.12) has been published by ECHA in 2015<sup>2</sup>. Since then, the use “01a: distribution of substance” has been removed from all categories; according to the guidance, distribution is not to be considered as a use and has therefore not to be reported. Chemical distributors’ activities such as repacking (which involves transfer of the substance) are to be covered under the formulation stage even if no mixing is carried out.

The following clarifications are focused on some specific cases:

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<sup>1</sup> According to the Directive 2004/37/EC, an employer shall reduce the use of a CMR substance at the place of work, in particular by replacing it, in so far as is technically possible, by a substance, mixture or process which, under its conditions of use, is not dangerous or is less dangerous to workers’ health or safety, as the case may be and if not possible the employer shall take all measures to reduce the risk of exposure for workers.

<sup>2</sup> European Chemicals Agency. (n.d.). Information requirements: Chapter R.12 - Use description. [ISBN: 978-92-9247-685-4](https://doi.org/10.26907/978-92-9247-685-4).

- According to [REACH Annex XVII](#), substances classified as Category 1A or 1B ([C] Carcinogen H350: “may cause cancer”; [M] Mutagen H340: “may cause genetic defects”; and/or [R] Toxic to Reproduction H360: may damage fertility or the unborn child”) (meeting conditions in Entry 28, 29, or 30) shall not be supplied to the general public. Nonetheless, only substances listed in the relevant Appendices (1 - 6) of Annex XVII are covered by the restrictions in entries 28 - 30<sup>3</sup>. Moreover, restriction does not apply to motor fuels which are covered by Directive 98/70/EC, mineral oil products intended for use as fuel in mobile or fixed combustion plants, and fuels sold in closed systems (e.g. liquid gas bottle). Therefore, no consumer uses can be supported for substances classified as **Carcinogen, Mutagen, and/or non-threshold Toxic to Reproduction 1A or 1B**, apart from the exempted ones indicated above. For professional and industrial settings, **Concawe limits the use of any H340, H350, and/or non-threshold H360** substance to suitably equipped industrial or professional settings. Use of such substances is only supported in circumstances where potential for exposure is limited (PROCs 1, 2, 3, 8b, 9, 15, and 16). Likewise, their use during maintenance activities is governed by the specific SOP applicable to these operations (PROC 28, modelled in TRA using PROC 8a [maintenance only]<sup>4</sup>). Conversely, the use of CMR substances is not supported in contributing activities where exposure to the substance might be expected to be significant (such as PROCs 7, 11, 17, 18, etc.)<sup>5</sup>. However, importantly, per the 2022/431/EC update to the CMR Directive, H360 classification specifically has a call-out for a threshold: “*For most reprotoxic substances, it is scientifically possible to identify levels below which exposure would not lead to adverse health effects. The exposure minimization requirements laid down in Directive 2004/37/EC should apply only to reprotoxic substances for which it is not possible to identify a safe level of exposure and which are identified as ‘non-threshold’ in the notation column of the Annex III to Directive 2004/37/EC. With regard to all other reprotoxic substances, employers should ensure that the risk related to the exposure of workers is reduced to a minimum.*” These limitations are consistent with the current expectations of the CMR Directive 2004/37/EC<sup>6</sup>.
- According to [REACH Annex XVII](#) restriction on benzene (entry 5), benzene shall not be placed on the market, or used as a substance or as a constituent of other substances, or in mixtures in concentrations equal to, or greater than 0.1% by weight. Restriction does not apply to motor fuels which are covered by Directive 98/70/EC (benzene up to 1% by weight), and substances and mixtures for use in industrial processes (provided that benzene emissions meet limit values).

<sup>3</sup> European Chemicals Agency (ECHA), Q&A ID 156 - Restrictions under entries 28-30 of Annex XVII to REACH for substances classified as CMR, Version 1, agreed with national helpdesks, 4 June 2009. Available at: <https://echa.europa.eu/hr/support/qas>

<sup>4</sup> [TR131: Targeted Risk Assessment: Further Explanation of the Technical Basis of the TRA v3.1](#)

<sup>5</sup> <https://www.concawe.eu/publication/report-no-1112/>

<sup>6</sup> [EUR-Lex - 02004L0037-20220405 - EN - EUR-Lex \(europa.eu\)](#)

The directive states that “The employer shall reduce the use of a CMR substance at the place of work, in particular by replacing it, in so far as is technically possible, by a substance, mixture or process which, under its conditions of use, is not dangerous or is less dangerous to workers’ health or safety, as the case may be.

Where it is not technically possible to replace the CMR substance by a substance, mixture or process which, under its conditions of use, is not dangerous or is less dangerous to health or safety, the employer shall ensure that the carcinogen, mutagen or reprotoxic substance is, in so far as is technically possible, manufactured and used in a closed system.

Where a closed system is not technically possible, the employer shall ensure that the level of exposure of workers to the carcinogen, mutagen or non-threshold reprotoxic substance is reduced to as low a level as is technically possible.

Where it is not technically possible to use or manufacture a threshold reprotoxic substance in a closed system, the employer shall ensure that the risk related to the exposure of workers to that threshold reprotoxic substance is reduced to a minimum.”

- In 2011, ECHA’s Risk Assessment Committee (RAC) issued an Opinion<sup>7</sup> on the harmonised classification of white spirit (EC Nos 232-489-3, 265-185-4, and 265-191-7), referring to its hazard of chronic toxicity to the central nervous system. Based on the RAC’s opinion, the EU Commission Harmonised the classification of these substances and included them to the list of hazardous substances in Part 3 of [Annex VI of the CLP Regulation](#) (Commission Regulation No 944/2013). The white spirit substances share significant compositional overlap with Low Boiling Point Naphtha (Gasolines), Kerosine Categories, and the three Gas Oils Categories (OtherGO, SRGO and VHGO) and as such, since 2017, widespread uses (Professional/Consumer) as listed below are ‘advised against’ in their registration dossiers.
- Additionally, following good practice, some professional uses of carcinogenic substances (in the OtherGO and HFO categories) are ‘advised against’ as significant exposure may occur.
- In July 2025, following the self-classification as Category 1B Toxic to Reproduction H360FD, the use of SRGO and VHGO as a drilling mud in Oil and Gas field drilling operations is no longer supported. To facilitate this, the “Use in oil and gas field drilling and production operations” has been split into “Use in oil and gas field drilling and production operations; Drilling Mud (re-formulation)” which is now advised against and “Use in oil and gas field drilling and production operations; No Drilling Mud” (for onshore and offshore; industrial and professional Uses) which is supported in the dossiers.

‘Uses advised against’ are listed in the Table below. ‘X’ denotes the use is advised against in the lead registrant’s 2026 dossier of the substances in the considered category. Uses not indicated as ‘X’ can either be restricted according to REACH annex XVII - entry 28 as explained above or not included in Concawe dossiers for the respective category, as evidenced in the Tables of Section 3.

Uses advised against	HFO	KEROSINE/ SNAP	NAPHTHA (non-CMR)	OtherGO (carcinogenic)	SRGO	VHGO
03a - Uses in Coatings: Industrial	X					
03b - Use in Coatings: Professional	X	X	X		X	
03c - Uses in Coatings: Consumer		X				
04b - Use in Cleaning Agents: Professional		X	X		X	
04c - Use in Cleaning Agents: Consumer		X	X			
06b - Lubricants: Professional (low environmental release)		X		X	X	
06c - Lubricants: Professional (high environmental release)		X		X	X	
06d - Lubricants: Consumer (low environmental release)		X				
06e - Lubricants: Consumer (high environmental release)		X				
07b - Metal working fluids / rolling oils: Professional		X			X	
10b - Use as binders and release agents: Professional		X			X	
11a - Use in Agrochemicals: Professional		X				
11b - Use in Agrochemicals: Consumer		X				
13b - Functional Fluids: Professional				X	X	
15 - Road and construction applications: Professional	X	X			X	
16 - Other Consumer Uses <sup>8</sup>					X	

<sup>7</sup> <https://echa.europa.eu/documents/10162/1637943d-b229-bf9b-813c-10802e78e2e7>

<sup>8</sup> Use name in Chesar assessments “Uses in cosmetics/personal care products, perfumes and fragrances”

Uses advised against	HFO	KEROSINE/ SNAP	NAPHTHA (non-CMR)	OtherGO (carcinogenic)	SRGO	VHGO
18b - Explosives manufacture & use: Professional		X			X	
05aOFF - Use in Oil and Gas field drilling and production operations, with drilling mud (re-)formulation: Industrial offshore					X	X
05aON - Use in Oil and Gas field drilling and production operations, with drilling mud (re-)formulation: Industrial onshore					X	X
05bOFF - Use in Oil and Gas field drilling and production operations, with drilling mud (re-)formulation: Professional offshore					X	X
05bON - Use in Oil and Gas field drilling and production operations, with drilling mud (re-)formulation: Professional onshore					X	X

Registrants are obliged to include a brief general description of all Uses in their Technical Dossier and in the Chemical Safety Reports. The Table below provides the detailed description of all Concawe Generic Exposure Scenarios that may be applicable to petroleum and related hydrocarbon substances as well as Sulfur. Please refer to Section 3 for more details on Use Descriptors and for identification of the specific Uses associated with each substance.

#### Description of all Concawe Generic Exposure Scenarios (GES) associated with the Uses of Hydrocarbon Substances and Sulfur

Use (IUCLID name)	Use (CHESAR name) <sup>9</sup>	Concawe GES (non-CMR Cat 1)	Concawe GES (if harmonized non- threshold CMR Cat 1A/1B)
01 - Manufacture of substance	01 - Manufacture of substance	Manufacture of the substance or use as a process chemical or extraction agent. Includes recycling/recovery, material transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bulk container), sampling and associated laboratory activities.	Manufacture of the substance or use as a process chemical or extraction agent within closed or contained systems. Includes incidental exposures during recycling/recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).
01b - Use of substance as intermediate	01b - Use as an intermediate	Use of substance as an intermediate (not related to Strictly Controlled Conditions). Includes recycling/recovery, material transfers, storage, sampling,	Use of substance as an intermediate within closed or contained systems (not related to Strictly Controlled Conditions). Includes incidental exposures during recycling/

<sup>9</sup> Chemical Safety Assessment and Reporting tool: an application developed by ECHA to help companies carry out their chemical safety assessments and to prepare their chemical safety reports and exposure scenarios for communication in the supply chain. The CSAs in the Concawe 2020 registration dossiers have been carried out using CHESAR v3.3 (Human Health part, only). Further info: <https://chesar.echa.europa.eu/>

Use (IUCRID name)	Use (CHESAR name) <sup>9</sup>	Concawe GES (non-CMR Cat 1)	Concawe GES (if harmonized non- threshold CMR Cat 1A/1B)
		associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).	recovery, material transfers, storage, sampling, associated laboratory activities, maintenance and loading (including marine vessel/barge, road/rail car and bulk container).
02 - Formulation & (re)packing of substances and mixtures	02 - Formulation & (re)packing of substances and mixtures	Formulation, packing and re-packing of the substance and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, tableting, compression, pelletisation, extrusion, large- and small-scale packing, maintenance, sampling and associated laboratory activities.	Formulation of the substance and its mixtures in batch or continuous operations within closed or contained systems, including incidental exposures during storage, materials transfers, mixing, maintenance, sampling and associated laboratory activities.
03a - Uses in Coatings: Industrial	03a - Use in coatings; Industrial	Covers the use in coatings (paints, inks, adhesives, etc.) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, spreader, dip, flow, fluidised bed on production lines and film formation) and equipment cleaning, maintenance and associated laboratory activities.	Covers the use in coatings (paints, inks, adhesives, etc.) within closed or contained systems including incidental exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application activities and film formation) and equipment cleaning, maintenance and associated laboratory activities.
03b - Uses in Coatings: Professional	03b - Use in coatings; Professional	Covers the use in coatings (paints, inks, adhesives, etc.) including exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, brush, spreader by hand or similar methods, and film formation), and equipment cleaning, maintenance and	Where the substance is non-threshold CMR, this Use is not supported consistent with the current expectations of the CMR Directive 2004/37/EC. Where the substance is a threshold CMR, an exposure assessment will determine appropriate RMMs to facilitate safe use. Where safe use is supported, this use covers the use in coatings (paints, inks,

Use (IUCRID name)	Use (CHESAR name) <sup>9</sup>	Concawe GES (non-CMR Cat 1)	Concawe GES (if harmonized non- threshold CMR Cat 1A/1B)
		associated laboratory activities.	adhesives, etc.) within closed or contained systems including incidental exposures during use (including materials receipt, storage, preparation and transfer from bulk and semi-bulk, application by spray, roller, brush, spreader by hand or similar methods, and film formation), and equipment cleaning, maintenance and associated laboratory activities.
03c - Uses in Coatings: Consumer	03c - Use in coatings; Consumer	Covers the use in coatings (paints, inks, adhesives, etc.) including exposures during use (including product transfer and preparation, application by brush, spray by hand or similar methods) and equipment cleaning.	Not applicable for consumer use per REACH Annex XVII restriction Entry 28, 29, and/or 30.
04a - Use in Cleaning Agents: Industrial	04a - Use in cleaning Agents; Industrial	Covers the use as a component of cleaning products including transfer from storage, pouring/unloading from drums or containers. Exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying, brushing, dipping, wiping, automated and by hand), related equipment cleaning and maintenance.	Not supported by Concawe.
04b - Use in Cleaning Agents: Professional	04b - Use in cleaning Agents; Professional	Covers the use as a component of cleaning products including pouring/unloading from drums or containers; and exposures during mixing/diluting in the preparatory phase and cleaning activities (including spraying,	Not applicable for professional use per CMRD.

Use (IUCRID name)	Use (CHESAR name) <sup>9</sup>	Concawe GES (non-CMR Cat 1)	Concawe GES (if harmonized non- threshold CMR Cat 1A/1B)
		brushing, dipping, wiping automated and by hand).	
04c - Use in Cleaning Agents: Consumer	04c - Use in cleaning Agents; Consumer	Covers general exposures to consumers arising from the use of household products sold as washing and cleaning products, aerosols, coatings, de- icers, lubricants and air care products.	Not applicable for consumer use per REACH Annex XVII restriction Entry 28, 29, and/or 30.
05aON - Use in Oil and Gas field drilling and production operations, no drilling mud: Industrial onshore (classified)	05a - Use at industrial sites - Use in oil and gas field drilling and production operations; No Drilling Mud; Industrial	Oil field well drilling and production operations in Onshore setting (excluding drilling muds) including well cleaning, material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.	Not supported by Concawe.
05aOff - Use in Oil and Gas field drilling and production operations, no drilling mud: Industrial offshore (classified)	05a - Use at industrial sites - Use in oil and gas field drilling and production operations; No Drilling Mud; Industrial	Oil field well drilling and production operations in Offshore setting (excluding drilling muds) including well cleaning, material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.	Not supported by Concawe.
05bON - Use in Oil and Gas field drilling and production operations, no drilling mud: Professional onshore (classified)	Widespread use by professional workers - Use in oil and gas field drilling and production operations; No Drilling Mud; Professional	Oil field well drilling and production operations in Onshore setting (excluding drilling muds) including well cleaning, material transfers, on-site formulation, well head operations, shaker room activities and related maintenance.	Not applicable for professional use per CMRD.
05bOFF - Use in Oil and Gas field drilling and production operations, no drilling mud: Professional offshore (classified)	Widespread use by professional workers - Use in oil and gas field drilling and production operations; No Drilling Mud; Professional	Oil field well drilling and production operations in Offshore setting (excluding drilling muds) including well cleaning, material transfers, on-site formulation, well head operations, shaker room	Not applicable for professional use per CMRD.

Use (IUCRID name)	Use (CHESAR name) <sup>9</sup>	Concawe GES (non-CMR Cat 1)	Concawe GES (if harmonized non- threshold CMR Cat 1A/1B)
		activities and related maintenance.	
06a - Lubricants: Industrial	06a - Use in lubricants; Industrial	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of machinery/engines and similar articles, reworking on reject articles, equipment maintenance and disposal of wastes.	Covers the use of formulated lubricants within closed or contained systems including incidental exposures during material transfers, operation of machinery/engines and similar articles, equipment maintenance and disposal of wastes.
06b - Lubricants: Professional (low environmental release)	06b - Use in lubricants; Professional (low environmental release)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, reworking on reject articles, equipment maintenance and disposal of waste oil.	Not applicable for professional use per CMRD.
06c - Lubricants: Professional (high environmental release)	06c - Use in lubricants; Professional (high environmental release)	Covers the use of formulated lubricants in closed and open systems including transfer operations, operation of engines and similar articles, reworking on reject articles, equipment maintenance and disposal of waste oil.	Not applicable for professional use per CMRD.
06d - Lubricants: Consumer (low environmental release)	06d - Use in lubricants; Consumer (low environmental release)	Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, application, operation of engines and similar articles, equipment maintenance and disposal of waste oil.	Not applicable for consumer use per REACH Annex XVII restriction Entry 28, 29, and/or 30.
06e - Lubricants: Consumer (high environmental release)	06e - Use in lubricants; Consumer (high environmental release)	Covers the consumer use of formulated lubricants in closed and open systems including transfer operations, application, operation of engines and similar articles, equipment	Not applicable for consumer use per REACH Annex XVII restriction Entry 28, 29, and/or 30.

Use (IUCLID name)	Use (CHESAR name) <sup>9</sup>	Concawe GES (non-CMR Cat 1)	Concawe GES (if harmonized non- threshold CMR Cat 1A/1B)
		maintenance and disposal of waste oil.	
07a - Metal working fluids / rolling oils: Industrial	07a - Use in metal working fluids / rolling oils; Industrial	Covers the use in formulated MWFs/rolling oils including transfer operations, rolling and annealing activities, cutting/machining activities, automated and manual application of corrosion protections (including brushing, dipping and spraying), equipment maintenance, draining and disposal of waste oils.	Covers the use in formulated MWFs/rolling oils within closed or contained systems including incidental exposures during transfer operations, rolling and annealing activities, cutting/machining activities, automated application of corrosion protections, equipment maintenance, draining and disposal of waste oils.
07b - Metal working fluids / rolling oils: Professional	07b - Use in metal working fluids / rolling oils; Professional	Covers the use in formulated MWFs including transfer operations, open and contained cutting/machining activities, automated and manual application of corrosion protections, draining and working on contaminated/ reject articles, and disposal of waste oils.	Not applicable for professional use per CMRD.
10a - Use as binders and release agents: Industrial	10a - Use in binders and release agents; Industrial	Covers the use as binders and release agents including material transfers, mixing, application (including spraying and brushing), mould forming and casting, and handling of waste.	N/A
10b - Use as binders and release agents: Professional	10b - Use in binders and release agents; Professional	Covers the use as binders and release agents including material transfers, mixing, application by spraying, brushing, and handling of waste.	Not applicable for professional use per CMRD.
11a - Use in Agrochemicals: Professional	11a - Use in agrochemicals; Professional	Use as an agrochemical excipient for application by manual or machine spraying, smokes and fogging; including	Not applicable for professional use per CMRD.

Use (IUCRID name)	Use (CHESAR name) <sup>9</sup>	Concawe GES (non-CMR Cat 1)	Concawe GES (if harmonized non- threshold CMR Cat 1A/1B)
		equipment clean-downs and disposal.	
11b - Use in Agrochemicals: Consumer	11b - Use in agrochemicals; Consumer	Covers the consumer use in agrochemicals in liquid and solid forms.	Not applicable for consumer use per REACH Annex XVII restriction Entry 28, 29, and/or 30.
12a - Use in fuel: Industrial	12a - Use in fuel; Industrial	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.	Covers the use as a fuel (or fuel additives and additive components) within closed or contained systems, including incidental exposures during activities associated with its transfer, use, equipment maintenance and handling of waste.
12b - Use in fuel: Professional	12b - Use in fuel; Professional	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.	Covers the use as a fuel (or fuel additives and additive components) within closed or contained systems, including incidental exposures during activities associated with its transfer, use, equipment maintenance and handling of waste.
12c - Use in fuel: Consumer	12c - Use in fuel; Consumer	Covers consumer uses in liquid fuels.	Not applicable for consumer use per REACH Annex XVII restriction Entry 28, 29, and/or 30.
13a - Functional Fluids: Industrial	13a - Use in functional fluids; Industrial	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.	Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in closed industrial equipment including incidental exposures during maintenance and related material transfers.
13b - Functional Fluids: Professional	13b - Use in functional fluids; Professional	Use as functional fluids e.g. cable oils, transfer oils, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material transfers.	Not applicable for professional use per CMRD.

Use (IUCLID name)	Use (CHESAR name) <sup>9</sup>	Concawe GES (non-CMR Cat 1)	Concawe GES (if harmonized non- threshold CMR Cat 1A/1B)
13c - Functional Fluids: Consumer	13c - Use in functional fluids; Consumer	Use of sealed items containing functional fluids e.g. transfer oils, hydraulic fluids, refrigerants.	Not applicable for consumer use per REACH Annex XVII restriction Entry 28, 29, and/or 30.
15 - Road and construction applications: Professional	15 - Use in road and construction products; Professional	Application of surface coatings and binders in road and construction activities, including paving uses, manual mastic and in the application of roofing and water-proofing membranes.	Not applicable for professional use per CMRD.
A15SLb - Road and construction applications: Service Life (Professional)	A15SLb - Use in road and construction products: Service Life (professional)	Use in road and construction products.	Not applicable for professional use per CMRD.
16 - Uses in cosmetics/personal care products, perfumes and fragrances <sup>10</sup>	16 - Uses in cosmetics/personal care products, perfumes and fragrances	Consumer uses e.g. as a carrier in cosmetics/personal care products, perfumes and fragrances. Note: For cosmetic and personal care products, risk assessment only required for the environment under REACH as human health is covered by alternative legislation.	Not applicable for consumer use per REACH Annex XVII restriction Entry 28, 29, and/or 30.
17a - Use in laboratories: Industrial	17a - Use in laboratories; Industrial	Use of the substance within laboratory settings, including material transfers and equipment cleaning.	N/A
17b - Use in laboratories: Professional	17b - Use in laboratories; Professional	Use of small quantities within laboratory settings, including material transfers and equipment cleaning.	Not applicable for professional use per CMRD.
18b - Explosives manufacture & use: Professional	18b - Use in explosives; Professional	Covers exposures arising from the manufacture and use of slurry explosives (including materials transfer, mixing and charging) and equipment cleaning.	Not applicable for professional use per CMRD.

<sup>10</sup> Previous use name "Other Consumer Uses"

Use (IUCRID name)	Use (CHESAR name) <sup>9</sup>	Concawe GES (non-CMR Cat 1)	Concawe GES (if harmonized non- threshold CMR Cat 1A/1B)
19 - Rubber production and processing: Industrial	19 - Use in rubber production and processing; Industrial	Manufacture of tyres and general rubber articles, including processing of raw (uncured) rubber, handling and mixing of rubber additives, vulcanising, cooling and finishing.	Manufacture of tyres and general rubber articles within closed or contained systems, including incidental exposures during processing of raw (uncured) rubber, handling and mixing of rubber additives, calendaring, vulcanising, cooling and finishing as well as maintenance.
21a - Polymer processing: Industrial	21a - Use in polymer processing; Industrial	Processing of formulated polymers including material transfers, additives handling (e.g. pigments, stabilisers, fillers, plasticisers, etc.), moulding, curing and forming activities, material re-works, storage and associated maintenance.	Processing of formulated polymers within closed or contained systems, including incidental exposures during material transfers, additives handling (e.g. pigments, stabilisers, fillers, plasticisers, etc.), moulding, curing and forming activities, material re-works, storage and associated maintenance.
21b - Polymer processing: Professional	21b - Use in polymer processing; Professional	Processing of formulated polymers including material transfers, moulding and forming activities, material re-works and associated maintenance.	Not applicable for professional use per CMRD.
22a - Water treatment chemicals: Industrial	22a - Water treatment chemicals; Industrial	Covers the use of the substance for the treatment of water at industrial facilities in open and closed systems.	Covers the use of the substance for the treatment of water at industrial facilities in closed or contained systems including incidental exposures during material transfers and equipment cleaning.
22b - Water treatment chemicals: Professional	22b - Water treatment chemicals; Professional	Covers the use of the substance for the treatment of water in open and closed systems.	Not applicable for professional use per CMRD.
23 - Mining chemicals: Industrial	23 - Use in mining chemicals; Industrial	Covers the use of the substance in extraction processes at mining operations, including material transfers, winning and separation activities,	N/A

Use (IUCLID name)	Use (CHESAR name) <sup>9</sup>	Concawe GES (non-CMR Cat 1)	Concawe GES (if harmonized non- threshold CMR Cat 1A/1B)
		and substance recovery and disposal.	
A13a - Use in matches: Industrial	A13a - Use in matches; Industrial	Covers the use in matches.	This use is linked only to a non-CMR substance.
A13SLc - Use in matches: Service Life (Consumers)	A13SLc - Use in matches	Covers the use in matches.	This use is linked only to a non-CMR substance.
A14a - Use in fireworks: Industrial	A14a - Use in fireworks; Industrial	Covers the use in fireworks.	This use is linked only to a non-CMR substance.
A14b - Use in fireworks: Professional	A14b - Use in fireworks; Professional	Covers the use in fireworks.	This use is linked only to a non-CMR substance.
A14SLb - Use in fireworks: Service Life (Professional)	A14SLb - Use in fireworks	Covers the use in fireworks.	This use is linked only to a non-CMR substance.
A14SLc - Use in fireworks: Service Life (Consumers)	A14SLc - Use in fireworks	Covers the use in fireworks.	This use is linked only to a non-CMR substance.
A15SLb - Use in Road and construction applications: Service Life (Professional)	A15SLb - Use in road and construction products	Use in road and construction products.	Not applicable for professional use per CMRD.

### 3. LIST OF USES AND MAPPING AGAINST GENERIC EXPOSURE SCENARIOS AND THE USE DESCRIPTOR SYSTEM

#### Details on the column titles of the list of Uses

Title	Detail
Code in IUCLID	Code as listed in the IUCLID 6 file for the substance
Use reported	When a use tonnage has been reported at least by one registrant for a substance in the category, the use is indicated as reported (Y).
Life cycle stage	Four basic stages in substance life cycle to which a use can be assigned: manufacture (M), formulation or re-packing (F), end-use (IS: industrial, PW: professional, C: consumer) and article service life (SL)
M	Manufacture
F	Formulation or re-packing
IS	Use at industrial sites
PW	Widespread uses by professional workers
C	Consumer use
SL	Service life: period of time an article remains in service or in use
Name	Name of the Use based on the Generic Exposure Scenarios listed in Table of Section 2
Technical function	Technical function as in the ECHA guidance Use Descriptor System (note: technical functions additional to those listed in Tables of Section 3 may be applicable)
SU	Sector of Use
PC	Product Category (for contributing activities: consumer)
AC	Article Category (for contributing activities: service life)
PROC	Process Category (for contributing activities: workers)
ERC	Environmental Release Category (for contributing activities: environment)
SpERCs	Specific Environmental Release Category
Y	Indicates the use is active for EC number
Y	Indicates the use is <u>now</u> active for EC number, compared with the previous version of the Handbook of Uses.
	Indicates the use is no longer active for EC number

#### Notes on the list

If you cannot find all the uses applicable to your substance on the list below, please contact us ([admin@super-SIEF.eu](mailto:admin@super-SIEF.eu)).

### 3.1 Low Boiling Point Naphthas (Gasolines) (Naphtha)

#### a. List of Uses and Use Descriptors for Naphtha substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
M-2	Y	M	01 - Manufacture of substance (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))				1, 2, 3, 8a, 8b, 15, 28	1	ESVOC SpERC 1.1.v1
M-3	Y	M	01 - Manufacture of substance (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))				1, 2, 3, 8a, 8b, 15, 28	1	ESVOC SpERC 1.1.v1
M-4	Y	M	01 - Manufacture of substance (classified; including H340, H350 and/or H361; (containing equal to or greater than 5% to 20% benzene))				1, 2, 3, 8a, 8b, 15, 28	1	ESVOC SpERC 1.1.v1
M-5	Y	M	01 - Manufacture of substance (classified; including H340, H350 and/or H361; (containing equal to or greater than 20% to 79% benzene))				1, 2, 3, 8a, 8b, 15, 28	1	ESVOC SpERC 1.1.v1
M-40	Y	M	01 - Manufacture of substance (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))				1, 2, 3, 8a, 8b, 15, 28	1	ESVOC SpERC 1.1.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
F-16	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
F-17	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	no technical function			1, 2, 3, 8a, 8b, 15, 28	2	ESVOC SpERC 2.2.v1
F-18	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))	no technical function			1, 2, 3, 8a, 8b, 15, 28	2	ESVOC SpERC 2.2.v1
F-19	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified; including H340, H350 and/or H361; (containing equal to or greater than 5% to 20% benzene))	no technical function			1, 2, 3, 8a, 8b, 15, 28	2	ESVOC SpERC 2.2.v1
F-20	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified; including H340, H350 and/or H361; (containing equal to or greater than 20% to 79% benzene))	no technical function			1, 2, 3, 8a, 8b, 15, 28	2	ESVOC SpERC 2.2.v1
F-50	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))	no technical function			1, 2, 3, 8a, 8b, 15, 28	2	ESVOC SpERC 2.2.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
IW-6	Y	IS	01b - Use of substance as intermediate (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-7	Y	IS	01b - Use of substance as intermediate (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 8a, 8b, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-8	Y	IS	01b - Use of substance as intermediate (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 8a, 8b, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-9	Y	IS	01b - Use of substance as intermediate (classified; including H340, H350 and/or H361; (containing equal to or greater than 5% to 20% benzene))	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 8a, 8b, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-10	Y	IS	01b - Use of substance as intermediate (classified; including H340, H350 and/or H361; (containing equal to or greater than 20% to 79% benzene))	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 8a, 8b, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-21	Y	IS	03a - Uses in Coatings: Industrial (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))	softener		PC: 1, 9a	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 14, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-24	Y	IS	04a - Use in Cleaning Agents: Industrial (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))	cleaning agent		PC: 35	1, 2, 3, 4, 7, 8a, 8b, 10, 13, 28	4	ESVOC SpERC 4.4a.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
IW-28	Y	IS	12a - Use in fuel: Industrial (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
IW-29	Y	IS	12a - Use in fuel: Industrial (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
IW-34	Y	IS	19 - Rubber production and processing: Industrial (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))	plasticiser, processing aid	11	PC: 20, 32	1, 2, 3, 4, 5, 6, 7, 8a, 8b, 9, 13, 14, 15, 28	4	ESVOC SpERC 4.19a.v3
IW-41	Y	IS	01b - Use of substance as intermediate (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 8a, 8b, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-42	Y	IS	03a - Uses in Coatings: Industrial (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))	softener		PC: 1, 9a	1, 2, 3, 8a, 8b, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-44	Y	IS	12a - Use in fuel: Industrial (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
IW-47	Y	IS	13a - Functional Fluids: Industrial (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	heat transferring agent, hydraulic (functional) fluids, impregnation agent, insulators, lubricating agent		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 8a, 8b, 9, 28	7	ESVOC SpERC 7.13a.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
IW-500	Y	IS	13a - Functional Fluids: Industrial (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))	heat transferring agent, hydraulic (functional) fluids, impregnation agent, insulators, lubricating agent		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 4, 8a, 8b, 9, 28	7	ESVOC SpERC 7.13a.v1
IW-501	Y	IS	12a - Use in fuel: Industrial (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
IW-502	Y	IS	12a - Use in fuel: Industrial (classified; including H340, H350 and/or H361; (containing equal to or greater than 5% to 20% benzene))	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
IW-503	Y	IS	12a - Use in fuel: Industrial (classified; including H340, H350 and/or H361; (containing equal to or greater than 20% to 79% benzene))	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
PW-30	Y	PW	12b - Use in fuel: Professional (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
PW-31	Y	PW	12b - Use in fuel: Professional (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
PW-48	Y	PW	12b - Use in fuel: Professional (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
PW-504	Y	PW	12b - Use in fuel: Professional (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
PW-505	Y	PW	12b - Use in fuel: Professional (classified; including H340, H350 and/or H361; (containing equal to or greater than 5% to 20% benzene))	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
PW-506	Y	PW	12b - Use in fuel: Professional (classified; including H340, H350 and/or H361; (containing equal to or greater than 20% to 79% benzene))	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
C-32	Y	C	12c - Use in fuel: Consumer (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))	fuel		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1
C-49	Y	C	12c - Use in fuel: Consumer (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))	fuel		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1
C-600	Y	C	12c - Use in fuel: Consumer (substance - classified; including H340, H350 and/or H361-, supplied in a mixture, benzene in the final product equal or less than 1.0 %)	fuel		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1

NB: For Consumer use in fuel, several uses versions (C-33/ C-507/ C-508 / C-509) were merged in 2026 into the new version C-600 for a better alignment with Directive 98/70/EC of the European Parliament and of the Council of 13 October 1998 relating to the quality of petrol and diesel fuels.

**b. List of Uses of each Naphtha substance as detailed in the respective Chemical Safety Report**

**Table 1/3 for Naphtha substances listed by EC number**

Name	232-349-1	265-041-0	265-042-6	265-046-8	265-055-7	265-056-2	265-065-1	265-066-7	265-068-8	265-070-9	265-071-4	265-073-5	265-075-6	265-079-8	265-085-0	265-086-6	265-089-2	265-150-3
01 - Manufacture of substance (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))		Y	Y		Y			Y	Y			Y		Y		Y	Y	Y
01 - Manufacture of substance (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))																		Y
01 - Manufacture of substance (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y	Y	Y	Y
01 - Manufacture of substance (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))		Y	Y	Y	Y	Y	Y			Y	Y	Y		Y	Y		Y	Y
01 - Manufacture of substance (classified; including H340, H350 and/or H361; (containing equal to or greater than 20% to 79% benzene))							Y											Y
01 - Manufacture of substance (classified; including H340, H350 and/or H361; (containing equal to or greater than 5% to 20% benzene))				Y	Y		Y				Y					Y	Y	
02 - Formulation & (re)packing of substances and mixtures (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))			Y	Y	Y			Y	Y			Y		Y		Y	Y	Y
02 - Formulation & (re)packing of substances and mixtures (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))																		Y
02 - Formulation & (re)packing of substances and mixtures (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))		Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y		Y	Y	Y

Name	232-349-1	265-041-0	265-042-6	265-046-8	265-055-7	265-056-2	265-065-1	265-066-7	265-068-8	265-070-9	265-071-4	265-073-5	265-075-6	265-079-8	265-085-0	265-086-6	265-089-2	265-150-3
02 - Formulation & (re)packing of substances and mixtures (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))			Y	Y	Y	Y	Y	Y		Y		Y			Y		Y	Y
02 - Formulation & (re)packing of substances and mixtures (classified; including H340, H350 and/or H361; (containing equal to or greater than 20% to 79% benzene))							Y											Y
02 - Formulation & (re)packing of substances and mixtures (classified; including H340, H350 and/or H361; (containing equal to or greater than 5% to 20% benzene))			Y	Y			Y											
01b - Use of substance as intermediate (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))		Y	Y	Y	Y			Y	Y			Y		Y		Y	Y	Y
01b - Use of substance as intermediate (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))																		Y
01b - Use of substance as intermediate (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
01b - Use of substance as intermediate (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))		Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y		Y	Y
01b - Use of substance as intermediate (classified; including H340, H350 and/or H361; (containing equal to or greater than 20% to 79% benzene))							Y											Y
01b - Use of substance as intermediate (classified; including H340, H350 and/or H361; (containing equal to or greater than 5% to 20% benzene))			Y	Y	Y		Y				Y					Y	Y	
03a - Uses in Coatings: Industrial (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))				Y	Y											Y		Y
03a - Uses in Coatings: Industrial (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))																		Y

Name	232-349-1	265-041-0	265-042-6	265-046-8	265-055-7	265-056-2	265-065-1	265-066-7	265-068-8	265-070-9	265-071-4	265-073-5	265-075-6	265-079-8	265-085-0	265-086-6	265-089-2	265-150-3
04a - Use in Cleaning Agents: Industrial (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))					Y				Y							Y		Y
12a - Use in fuel: Industrial (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))			Y		Y			Y				Y		Y			Y	Y
12a - Use in fuel: Industrial (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))																		Y
12a - Use in fuel: Industrial (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))		Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y		Y	Y	Y
12a - Use in fuel: Industrial (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))			Y	Y	Y	Y	Y	Y		Y		Y			Y		Y	Y
12a - Use in fuel: Industrial (classified; including H340, H350 and/or H361; (containing equal to or greater than 20% to 79% benzene))							Y											Y
12a - Use in fuel: Industrial (classified; including H340, H350 and/or H361; (containing equal to or greater than 5% to 20% benzene))			Y	Y			Y											
13a - Functional Fluids: Industrial (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))					Y													
13a - Functional Fluids: Industrial (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))			Y															
19 - Rubber production and processing: Industrial (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))																Y		Y
12b - Use in fuel: Professional (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))			Y	Y	Y							Y				Y	Y	Y

Name	232-349-1	265-041-0	265-042-6	265-046-8	265-055-7	265-056-2	265-065-1	265-066-7	265-068-8	265-070-9	265-071-4	265-073-5	265-075-6	265-079-8	265-085-0	265-086-6	265-089-2	265-150-3
12b - Use in fuel: Professional (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))																		Y
12b - Use in fuel: Professional (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))		Y	Y	Y	Y	Y		Y		Y		Y		Y		Y	Y	Y
12b - Use in fuel: Professional (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))			Y	Y	Y	Y		Y				Y			Y		Y	Y
12b - Use in fuel: Professional (classified; including H340, H350 and/or H361; (containing equal to or greater than 20% to 79% benzene))							Y											
12b - Use in fuel: Professional (classified; including H340, H350 and/or H361; (containing equal to or greater than 5% to 20% benzene))			Y															
12c - Use in fuel: Consumer (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))			Y		Y			Y				Y				Y		
12c - Use in fuel: Consumer (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))																		Y
12c - Use in fuel: Consumer (substance - classified; including H340, H350 and/or H361-, supplied in a mixture, benzene in the final product equal or less than 1.0 %)		Y	Y	Y	Y	Y	Y	Y		Y		Y		Y	Y	Y	Y	Y

Table 2/3 for Naphtha substances listed by EC number

Name	265-151-9	265-178-6	265-185-4	265-192-2	265-199-0	270-660-4	270-690-8	270-695-5	270-993-5	271-267-0	271-727-0	272-186-3	272-895-8	272-931-2	273-271-8	285-510-3	289-220-8	295-298-4
01 - Manufacture of substance (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))	Y		Y		Y	Y	Y	Y		Y		Y				Y	Y	Y
01 - Manufacture of substance (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))			Y					Y									Y	
01 - Manufacture of substance (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	Y	Y		Y		Y	Y	Y	Y	Y	Y	Y	Y		Y		Y	
01 - Manufacture of substance (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))	Y	Y		Y			Y	Y	Y			Y	Y		Y	Y	Y	Y
01 - Manufacture of substance (classified; including H340, H350 and/or H361; (containing equal to or greater than 20% to 79% benzene))							Y						Y		Y		Y	
01 - Manufacture of substance (classified; including H340, H350 and/or H361; (containing equal to or greater than 5% to 20% benzene))											Y	Y	Y		Y		Y	Y
02 - Formulation & (re)packing of substances and mixtures (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))	Y		Y	Y	Y			Y		Y		Y			Y		Y	Y
02 - Formulation & (re)packing of substances and mixtures (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))			Y		Y			Y							Y		Y	
02 - Formulation & (re)packing of substances and mixtures (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	Y	Y		Y	Y	Y	Y	Y	Y	Y		Y	Y		Y		Y	
02 - Formulation & (re)packing of substances and mixtures (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))	Y	Y	Y	Y				Y		Y		Y	Y	Y	Y	Y	Y	
02 - Formulation & (re)packing of substances and mixtures (classified; including H340, H350 and/or H361; (containing equal to or greater than 20% to 79% benzene))													Y		Y		Y	

Name	265-151-9	265-178-6	265-185-4	265-192-2	265-199-0	270-660-4	270-690-8	270-695-5	270-993-5	271-267-0	271-727-0	272-186-3	272-895-8	272-931-2	273-271-8	285-510-3	289-220-8	295-298-4
02 - Formulation & (re)packing of substances and mixtures (classified; including H340, H350 and/or H361; (containing equal to or greater than 5% to 20% benzene))												Y	Y		Y		Y	
01b - Use of substance as intermediate (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))	Y		Y		Y	Y	Y	Y		Y		Y			Y	Y	Y	
01b - Use of substance as intermediate (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))								Y							Y		Y	
01b - Use of substance as intermediate (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	Y	Y		Y		Y	Y	Y	Y	Y	Y				Y		Y	
01b - Use of substance as intermediate (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))	Y	Y		Y			Y	Y	Y			Y	Y		Y	Y	Y	Y
01b - Use of substance as intermediate (classified; including H340, H350 and/or H361; (containing equal to or greater than 20% to 79% benzene))							Y						Y		Y			
01b - Use of substance as intermediate (classified; including H340, H350 and/or H361; (containing equal to or greater than 5% to 20% benzene))											Y		Y		Y			Y
03a - Uses in Coatings: Industrial (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))					Y					Y								
03a - Uses in Coatings: Industrial (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))			Y		Y													
04a - Use in Cleaning Agents: Industrial (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))			Y		Y			Y		Y								
12a - Use in fuel: Industrial (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))	Y			Y	Y			Y		Y		Y			Y		Y	Y

Name	265-151-9	265-178-6	265-185-4	265-192-2	265-199-0	270-660-4	270-690-8	270-695-5	270-993-5	271-267-0	271-727-0	272-186-3	272-895-8	272-931-2	273-271-8	285-510-3	289-220-8	295-298-4
12a - Use in fuel: Industrial (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))					Y			Y							Y		Y	
12a - Use in fuel: Industrial (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	Y	Y		Y		Y	Y	Y	Y	Y		Y			Y		Y	
12a - Use in fuel: Industrial (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))	Y	Y	Y					Y		Y		Y	Y	Y	Y	Y	Y	
12a - Use in fuel: Industrial (classified; including H340, H350 and/or H361; (containing equal to or greater than 20% to 79% benzene))													Y		Y			
12a - Use in fuel: Industrial (classified; including H340, H350 and/or H361; (containing equal to or greater than 5% to 20% benzene))												Y	Y		Y			
13a - Functional Fluids: Industrial (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))										Y								
13a - Functional Fluids: Industrial (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))		Y										Y	Y				Y	
19 - Rubber production and processing: Industrial (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))										Y								
12b - Use in fuel: Professional (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))	Y		Y		Y			Y		Y		Y			Y		Y	
12b - Use in fuel: Professional (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))			Y					Y							Y		Y	
12b - Use in fuel: Professional (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	Y	Y		Y	Y		Y	Y		Y		Y			Y		Y	

Name	265-151-9	265-178-6	265-185-4	265-192-2	265-199-0	270-660-4	270-690-8	270-695-5	270-993-5	271-267-0	271-727-0	272-186-3	272-895-8	272-931-2	273-271-8	285-510-3	289-220-8	295-298-4
12b - Use in fuel: Professional (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))		Y	Y	Y				Y		Y		Y	Y		Y	Y	Y	
12b - Use in fuel: Professional (classified; including H340, H350 and/or H361; (containing equal to or greater than 20% to 79% benzene))													Y		Y		Y	
12b - Use in fuel: Professional (classified; including H340, H350 and/or H361; (containing equal to or greater than 5% to 20% benzene))												Y	Y		Y		Y	
12c - Use in fuel: Consumer (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))	Y							Y		Y		Y			Y		Y	
12c - Use in fuel: Consumer (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))								Y							Y		Y	
12c - Use in fuel: Consumer (substance - classified; including H340, H350 and/or H361-, supplied in a mixture, benzene in the final product equal or less than 1.0 %)	Y	Y	Y	Y	Y		Y	Y		Y		Y	Y		Y	Y	Y	

Table 3/3 for Naphtha substances listed by EC number

Name	295-433-7	295-440-5	295-441-0	295-442-6	295-446-8	296-903-4	297-401-8	614-725-0	940-595-2
01 - Manufacture of substance (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))		Y	Y					Y	Y
01 - Manufacture of substance (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))									Y
01 - Manufacture of substance (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	Y		Y		Y	Y	Y		Y
01 - Manufacture of substance (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))	Y		Y				Y		
01 - Manufacture of substance (classified; including H340, H350 and/or H361; (containing equal to or greater than 20% to 79% benzene))									
01 - Manufacture of substance (classified; including H340, H350 and/or H361; (containing equal to or greater than 5% to 20% benzene))									
02 - Formulation & (re)packing of substances and mixtures (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))			Y						Y
02 - Formulation & (re)packing of substances and mixtures (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))									Y
02 - Formulation & (re)packing of substances and mixtures (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	Y		Y		Y		Y		Y
02 - Formulation & (re)packing of substances and mixtures (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))			Y				Y		
02 - Formulation & (re)packing of substances and mixtures (classified; including H340, H350 and/or H361; (containing equal to or greater than 20% to 79% benzene))									

Name	295-433-7	295-440-5	295-441-0	295-442-6	295-446-8	296-903-4	297-401-8	614-725-0	940-595-2
02 - Formulation & (re)packing of substances and mixtures (classified; including H340, H350 and/or H361; (containing equal to or greater than 5% to 20% benzene))	Y								
01b - Use of substance as intermediate (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))		Y	Y					Y	Y
01b - Use of substance as intermediate (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))									Y
01b - Use of substance as intermediate (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))			Y			Y	Y		
01b - Use of substance as intermediate (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))	Y		Y				Y		
01b - Use of substance as intermediate (classified; including H340, H350 and/or H361; (containing equal to or greater than 20% to 79% benzene))									
01b - Use of substance as intermediate (classified; including H340, H350 and/or H361; (containing equal to or greater than 5% to 20% benzene))	Y								
03a - Uses in Coatings: Industrial (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))									
03a - Uses in Coatings: Industrial (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))									
04a - Use in Cleaning Agents: Industrial (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))									
12a - Use in fuel: Industrial (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))			Y						Y

Name	295-433-7	295-440-5	295-441-0	295-442-6	295-446-8	296-903-4	297-401-8	614-725-0	940-595-2
12a - Use in fuel: Industrial (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))									Y
12a - Use in fuel: Industrial (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	Y		Y		Y		Y		Y
12a - Use in fuel: Industrial (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))			Y				Y		
12a - Use in fuel: Industrial (classified; including H340, H350 and/or H361; (containing equal to or greater than 20% to 79% benzene))									
12a - Use in fuel: Industrial (classified; including H340, H350 and/or H361; (containing equal to or greater than 5% to 20% benzene))	Y								
13a - Functional Fluids: Industrial (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))									
13a - Functional Fluids: Industrial (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	Y								
19 - Rubber production and processing: Industrial (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))									
12b - Use in fuel: Professional (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))									Y
12b - Use in fuel: Professional (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))									Y
12b - Use in fuel: Professional (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))			Y				Y		

Name	295-433-7	295-440-5	295-441-0	295-442-6	295-446-8	296-903-4	297-401-8	614-725-0	940-595-2
12b - Use in fuel: Professional (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))			Y				Y		
12b - Use in fuel: Professional (classified; including H340, H350 and/or H361; (containing equal to or greater than 20% to 79% benzene))									
12b - Use in fuel: Professional (classified; including H340, H350 and/or H361; (containing equal to or greater than 5% to 20% benzene))	Y								
12c - Use in fuel: Consumer (classified; excluding H340, H350 and H361; (containing less than 0.1% benzene and less than 0.1% of cumene))									Y
12c - Use in fuel: Consumer (classified; H350 and/or H361; (containing less than 0.1% benzene and equal or greater 0.1% of cumene))									Y
12c - Use in fuel: Consumer (substance - classified; including H340, H350 and/or H361-, supplied in a mixture, benzene in the final product equal or less than 1.0 %)	Y		Y				Y		

## 3.2 Kerosines (Kerosine)

### a. List of Uses and Use Descriptors for Kerosine substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (classified; including H350)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
M-30	Y	M	01 - Manufacture of substance (classified; including H226, H315, H304, H336 and/or H411)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
F-4	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified; including H350)	no technical function			1, 2, 3, 8a, 8b, 9, 15, 28	2	ESVOC SpERC 2.2.v1
F-41	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified; including H226, H315, H304, H336 and/or H411)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
IW-2	Y	IS	01b - Use of substance as intermediate (classified; including H350)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-5	Y	IS	03a - Uses in Coatings: Industrial (classified; including H350)	vehicle (carrier)		PC: 1, 9a	1, 2, 3, 8a, 8b, 9, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-8	Y	IS	04a - Use in Cleaning Agents: Industrial (classified; including H350)	cleaning agent		PC: 35	1, 2, 3, 8a, 8b, 28	4	ESVOC SpERC 4.4a.v1
IW-11	Y	IS	06a - Lubricants: Industrial (classified; including H350)	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 8a, 8b, 9, 28	4, 7	ESVOC SpERC 4.6a.v1
IW-16	Y	IS	07a - Metal working fluids / rolling oils: Industrial (classified; including H350)	corrosion inhibitor, heat transferring agent, lubricating agent		PC: 25	1, 2, 3, 8a, 8b, 9, 28	4	ESVOC SpERC 4.7a.v1
IW-18	Y	IS	10a - Use as binders and release agents: Industrial (classified; including H350)	antiadhesive		PC: 24, 14, 15,	1, 2, 3, 8a, 8b, 28	4	ESVOC SpERC 4.10a.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
						9a, 9b, 9c, 20			
IW-22	Y	IS	12a - Use in fuel: Industrial (classified; including H350)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
IW-25	Y	IS	13a - Functional Fluids: Industrial (classified; including H350)	hydraulic (functional) fluids		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 8a, 8b, 9, 28	7	ESVOC SpERC 7.13a.v1
IW-31	Y	IS	01b - Use of substance as intermediate (classified; including H226, H315, H304, H336 and/or H411)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-32	Y	IS	03a - Uses in Coatings: Industrial (classified; including H226, H315, H304, H336 and/or H411)	vehicle (carrier)		PC: 1, 9a	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-33	Y	IS	04a - Use in Cleaning Agents: Industrial (classified; including H226, H315, H304, H336 and/or H411)	cleaning agent		PC: 35	1, 2, 3, 4, 7, 8a, 8b, 10, 13, 28	4	ESVOC SpERC 4.4a.v1
IW-34	Y	IS	06a - Lubricants: Industrial (classified; including H226, H315, H304, H336 and/or H411)	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 7, 8a, 8b, 9, 10, 13, 17, 18, 28	4, 7	ESVOC SpERC 4.6a.v1
IW-35	Y	IS	07a - Metal working fluids / rolling oils: Industrial (classified; including H226, H315, H304, H336 and/or H411)	corrosion inhibitor, heat transferring agent, lubricating agent		PC: 25	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 17, 28	4	ESVOC SpERC 4.7a.v1
IW-36	Y	IS	10a - Use as binders and release agents: Industrial (classified; including H226, H315, H304, H336 and/or H411)	antiadhesive		PC: 24, 14, 15, 9a, 9b, 9c, 20	1, 2, 3, 4, 6, 7, 8a, 8b, 10, 13, 14, 28	4	ESVOC SpERC 4.10a.v1
IW-37	Y	IS	12a - Use in fuel: Industrial (classified; including H226, H315, H304, H336 and/or H411)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
IW-38	Y	IS	13a - Functional Fluids: Industrial (classified; including H226, H315, H304, H336 and/or H411)	hydraulic (functional) fluids		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 4, 8a, 8b, 9, 28	7	ESVOC SpERC 7.13a.v1
PW-23	Y	PW	12b - Use in fuel: Professional (classified; including H350)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
PW-39	Y	PW	12b - Use in fuel: Professional (classified; including H226, H315, H304, H336 and/or H411)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
C-24	Y	C	12c - Use in fuel: Consumer (classified; including H350)	fuel		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1
C-40	Y	C	12c - Use in fuel: Consumer (classified; including H226, H315, H304, H336 and/or H411)	fuel		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1

**b. List of Uses of each Kerosine substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	232-366-4	265-149-8	265-184-9	294-799-5	931-250-7	941-379-0
01 - Manufacture of substance (classified; including H226, H315, H304, H336 and/or H411)	Y	Y	Y	Y	Y	Y
01 - Manufacture of substance (classified; including H350)	Y	Y	Y	Y	Y	Y
02 - Formulation & (re)packing of substances and mixtures (classified; including H226, H315, H304, H336 and/or H411)	Y	Y	Y	Y	Y	Y
02 - Formulation & (re)packing of substances and mixtures (classified; including H350)	Y	Y	Y	Y	Y	Y
01b - Use of substance as intermediate (classified; including H226, H315, H304, H336 and/or H411)	Y	Y	Y	Y	Y	Y
01b - Use of substance as intermediate (classified; including H350)	Y	Y	Y	Y		Y
03a - Uses in Coatings: Industrial (classified; including H226, H315, H304, H336 and/or H411)		Y	Y			
03a - Uses in Coatings: Industrial (classified; including H350)		Y	Y			
04a - Use in Cleaning Agents: Industrial (classified; including H226, H315, H304, H336 and/or H411)	Y	Y	Y			
04a - Use in Cleaning Agents: Industrial (classified; including H350)	Y		Y			
06a - Lubricants: Industrial (classified; including H226, H315, H304, H336 and/or H411)		Y	Y			
06a - Lubricants: Industrial (classified; including H350)		Y	Y			
07a - Metal working fluids / rolling oils: Industrial (classified; including H226, H315, H304, H336 and/or H411)		Y	Y			
07a - Metal working fluids / rolling oils: Industrial (classified; including H350)			Y			
10a - Use as binders and release agents: Industrial (classified; including H226, H315, H304, H336 and/or H411)	Y	Y	Y			
10a - Use as binders and release agents: Industrial (classified; including H350)		Y				
12a - Use in fuel: Industrial (classified; including H226, H315, H304, H336 and/or H411)	Y	Y	Y	Y	Y	Y

Name	232-366-4	265-149-8	265-184-9	294-799-5	931-250-7	941-379-0
12a - Use in fuel: Industrial (classified; including H350)	Y	Y	Y	Y		
13a - Functional Fluids: Industrial (classified; including H226, H315, H304, H336 and/or H411)	Y	Y	Y			
13a - Functional Fluids: Industrial (classified; including H350)	Y	Y	Y			
12b - Use in fuel: Professional (classified; including H226, H315, H304, H336 and/or H411)	Y	Y	Y	Y	Y	Y
12b - Use in fuel: Professional (classified; including H350)	Y		Y	Y	Y	Y
12c - Use in fuel: Consumer (classified; including H226, H315, H304, H336 and/or H411)	Y	Y	Y	Y	Y	Y
12c - Use in fuel: Consumer (classified; including H350)	Y	Y	Y	Y		

### 3.3 Straight-run Gas Oils (SRGO)

#### a. List of Uses and Use Descriptors for SRGO substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (classified)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
F-4	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
IW-2	Y	IS	01b - Use of substance as intermediate (classified)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-18	Y	IS	12a - Use in fuel: Industrial (classified)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
IW-22	Y	IS	13a - Functional Fluids: Industrial (classified)	heat transferring agent, hydraulic (functional) fluids, impregnation agent, insulators, lubricating agent		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 4, 8a, 8b, 9, 28	7	ESVOC SpERC 7.13a.v1
IW-26	Y	IS	05aON - Use in Oil and Gas field drilling and production operations, no drilling mud: Industrial onshore (classified)	barrier (sealant), vehicle (carrier)		PC: 41	1, 2, 3, 4, 8a, 8b, 9, 28	4	QUALITATIVE ASSESSMENT FOR ENVIRONMENT
IW-27	Y	IS	05aOFF - Use in Oil and Gas field drilling and production operations, no drilling mud: Industrial offshore (classified)	barrier (sealant), vehicle (carrier)		PC: 41	1, 2, 3, 4, 8a, 8b, 9, 28	4	QUALITATIVE ASSESSMENT FOR ENVIRONMENT
PW-19	Y	PW	12b - Use in fuel: Professional (classified)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
PW-28	Y	PW	05bON - Use in Oil and Gas field drilling and production	barrier (sealant), vehicle (carrier)		PC: 41	1, 2, 3, 4, 8a, 8b, 9, 28	8d	QUALITATIVE ASSESSMENT

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
			operations, no drilling mud: Professional onshore (classified)						FOR ENVIRONMENT
PW-29	Y	PW	05bOFF - Use in Oil and Gas field drilling and production operations, no drilling mud: Professional offshore (classified)	barrier (sealant), vehicle (carrier)		PC: 41	1, 2, 3, 4, 8a, 8b, 9, 28	8d	QUALITATIVE ASSESSMENT FOR ENVIRONMENT
C-20	Y	C	12c - Use in fuel: Consumer (classified)	fuel		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1

**b. List of Uses of each SRGO substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	265-043-1	265-044-7	272-341-5	272-817-2
01 - Manufacture of substance (classified)	Y	Y	Y	Y
02 - Formulation & (re)packing of substances and mixtures (classified)	Y	Y	Y	Y
01b - Use of substance as intermediate (classified)	Y	Y	Y	Y
05aOFF - Use in Oil and Gas field drilling and production operations, no drilling mud: Industrial offshore (classified)	Y			
05aON - Use in Oil and Gas field drilling and production operations, no drilling mud: Industrial onshore (classified)	Y			
12a - Use in fuel: Industrial (classified)	Y	Y	Y	Y
13a - Functional Fluids: Industrial (classified)		Y	Y	
05bOFF - Use in Oil and Gas field drilling and production operations, no drilling mud: Professional offshore (classified)	Y			
05bON - Use in Oil and Gas field drilling and production operations, no drilling mud: Professional onshore (classified)	Y			
12b - Use in fuel: Professional (classified)	Y	Y	Y	Y
12c - Use in fuel: Consumer (classified)	Y	Y	Y	Y

### 3.4 Cracked Gas Oils (CrackedGO)

#### a. List of Uses and Use Descriptors for CrackedGO substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (classified)				1, 2, 3, 8a, 8b, 15, 28	1	ESVOC SpERC 1.1.v1
F-4	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified)	no technical function			1, 2, 3, 8a, 8b, 15, 28	2	ESVOC SpERC 2.2.v1
IW-2	Y	IS	01b - Use of substance as intermediate (classified)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 8a, 8b, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-7	Y	IS	12a - Use in fuel: Industrial (classified)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
PW-8	Y	PW	12b - Use in fuel: Professional (classified)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1

**b. List of Uses of each CrackedGO substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	265-060-4	265-062-5	265-084-5	295-411-7
01 - Manufacture of substance (classified)	Y	Y	Y	Y
02 - Formulation & (re)packing of substances and mixtures (classified)	Y	Y	Y	Y
01b - Use of substance as intermediate (classified)	Y	Y	Y	Y
12a - Use in fuel: Industrial (classified)	Y	Y	Y	Y
12b - Use in fuel: Professional (classified)	Y		Y	Y

### 3.5 Vacuum Gas Oils, Hydrocracked Gas Oils & Distillate Fuels (VHGO)

#### a. List of Uses and Use Descriptors for VHGO substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (classified)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
F-4	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
IW-2	Y	IS	01b - Use of substance as intermediate (classified)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-5	Y	IS	03a - Uses in Coatings: Industrial (classified)	adhesion promotor, barrier (sealant), binder, compatibilizer, corrosion inhibitor, dust suppressant, impregnation agent, processing aid, softener, vehicle (carrier), waterproofing agent, 0=glossing agent		PC: 1, 9a	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 14, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-9	Y	IS	06a - Lubricants: Industrial (classified)	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 7, 8a, 8b, 9, 10, 13, 17, 18, 28	4, 7	ESVOC SpERC 4.6a.v1
IW-12	Y	IS	07a - Metal working fluids / rolling oils: Industrial (classified)	corrosion inhibitor, heat transferring agent, lubricating agent		PC: 25	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 17, 28	4	ESVOC SpERC 4.7a.v1
IW-13	Y	IS	10a - Use as binders and release agents: Industrial (classified)	antiadhesive, binder		PC: 24, 14, 15, 9a, 9b, 9c, 20	1, 2, 3, 4, 6, 7, 8a, 8b, 10, 13, 14, 28	4	ESVOC SpERC 4.10a.v1
IW-15	Y	IS	12a - Use in fuel: Industrial (classified)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
IW-18	Y	IS	13a - Functional Fluids: Industrial (classified)	heat transferring agent, hydraulic (functional) fluids, insulators		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 4, 8a, 8b, 9, 28	7	ESVOC SpERC 7.13a.v1
IW-23	Y	IS	05aON - Use in Oil and Gas field drilling and production operations: Industrial onshore (classified)	barrier (sealant), cleaning agent, vehicle (carrier)		PC: 41	1, 2, 3, 4, 8a, 8b, 9, 28	4	QUALITATIVE ASSESSMENT FOR ENVIRONMENT
IW-24	Y	IS	05aOFF - Use in Oil and Gas field drilling and production operations: Industrial offshore (classified)	barrier (sealant), cleaning agent, vehicle (carrier)		PC: 41	1, 2, 3, 4, 8a, 8b, 9, 28	4	QUALITATIVE ASSESSMENT FOR ENVIRONMENT
PW-16	Y	PW	12b - Use in fuel: Professional (classified)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
C-17	Y	C	12c - Use in fuel: Consumer (classified)	fuel		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1

**b. List of Uses of each VHGO substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	265-049-4	265-059-9	265-078-2	269-822-7	270-671-4	270-673-5	270-676-1
01 - Manufacture of substance (classified)	Y	Y	Y	Y	Y	Y	Y
02 - Formulation & (re)packing of substances and mixtures (classified)	Y	Y	Y	Y	Y	Y	Y
01b - Use of substance as intermediate (classified)	Y	Y	Y	Y		Y	Y
03a - Uses in Coatings: Industrial (classified)				Y			
05aOFF - Use in Oil and Gas field drilling and production operations: Industrial offshore (classified)				Y			
05aON - Use in Oil and Gas field drilling and production operations: Industrial onshore (classified)				Y			
06a - Lubricants: Industrial (classified)		Y		Y			
07a - Metal working fluids / rolling oils: Industrial (classified)				Y			
10a - Use as binders and release agents: Industrial (classified)				Y			
12a - Use in fuel: Industrial (classified)	Y	Y	Y	Y	Y	Y	Y
13a - Functional Fluids: Industrial (classified)				Y		Y	
12b - Use in fuel: Professional (classified)		Y	Y	Y	Y	Y	Y
12c - Use in fuel: Consumer (classified)		Y	Y	Y	Y		Y

Vacuum Gas Oils, Hydrocracked Gas Oils & Distillate Fuels (VHGO) - b. List of Uses of each VHGO substance as detailed in the respective Chemical Safety Report, listed by EC number

### 3.6 Other Gas Oils (OtherGO)

#### a. List of Uses and Use Descriptors for OtherGO substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (classified; non-carcinogenic feed-stock)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
M-2	Y	M	01 - Manufacture of substance (classified; carcinogenic or unknown feed-stock)				1, 2, 3, 8a, 8b, 15, 28	1	ESVOC SpERC 1.1.v1
F-7	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified; non-carcinogenic feed-stock)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
F-8	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified; carcinogenic or unknown feed-stock)	no technical function			1, 2, 3, 8a, 8b, 15, 28	2	ESVOC SpERC 2.2.v1
IW-3	Y	IS	01b - Use of substance as intermediate (classified; non-carcinogenic feed-stock)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-4	Y	IS	01b - Use of substance as intermediate (classified; carcinogenic or unknown feed-stock)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 8a, 8b, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-9	Y	IS	03a - Uses in Coatings: Industrial (classified; non-carcinogenic feed-stock)	processing aid, vehicle (carrier)		PC: 1, 9a	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 14, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-17	Y	IS	06a - Lubricants: Industrial (classified; non-carcinogenic feed-stock)	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 7, 8a, 8b, 9, 10, 13, 17, 18, 28	4, 7	ESVOC SpERC 4.6a.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
IW-30	Y	IS	12a - Use in fuel: Industrial (classified; non-carcinogenic feed-stock)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
IW-31	Y	IS	12a - Use in fuel: Industrial (classified; carcinogenic or unknown feed-stock)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
IW-34	Y	IS	13a - Functional Fluids: Industrial (classified; non-carcinogenic feed-stock)	heat transferring agent, hydraulic (functional) fluids, insulators, lubricating agent, defoamer		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 4, 8a, 8b, 9, 28	7	ESVOC SpERC 7.13a.v1
IW-35	Y	IS	13a - Functional Fluids: Industrial (classified; carcinogenic or unknown feed-stock)	heat transferring agent, hydraulic (functional) fluids, insulators, lubricating agent		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 8a, 8b, 9, 28	7	ESVOC SpERC 7.13a.v1
IW-42	Y	IS	22a - Water treatment chemicals: Industrial (classified; non-carcinogenic feed-stock)	defoamer, flocculating agent		PC: 36, 40, 2, 8	1, 2, 3, 4, 8a, 8b, 13, 28	4	ESVOC SpERC 3.22a.v1
PW-10	Y	PW	03b - Uses in Coatings: Professional (classified; non-carcinogenic feed-stock)	processing aid, vehicle (carrier)		PC: 1, 9a	1, 2, 3, 4, 5, 8a, 8b, 10, 11, 13, 15, 19, 28	8a, 8d	ESVOC SpERC 8.3b.v1
PW-19	Y	PW	06b - Lubricants: Professional (low environmental release) (classified; non-carcinogenic feed-stock)	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20, 28	9a, 9b	ESVOC SpERC 9.6b.v1
PW-21	Y	PW	06c - Lubricants: Professional (high environmental release) (classified; non-carcinogenic feed-stock)	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20, 28	8a, 8d	ESVOC SpERC 8.6c.v1
PW-32	Y	PW	12b - Use in fuel: Professional (classified; non-carcinogenic feed-stock)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
PW-33	Y	PW	12b - Use in fuel: Professional (classified; carcinogenic or unknown feed-stock)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
PW-36	Y	PW	13b - Functional Fluids: Professional (classified; non-carcinogenic feed-stock)	heat transferring agent, hydraulic (functional) fluids, insulators, lubricating agent		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 3, 8a, 9, 20, 28	9a, 9b	ESVOC SpERC 9.13b.v1
C-23	Y	C	06d - Lubricants: Consumer (low environmental release) (classified; non-carcinogenic feed-stock)	heat transferring agent, lubricating agent		PC: 24		9a, 9b	ESVOC SpERC 9.6d.v1
C-24	Y	C	06e - Lubricants: Consumer (high environmental release) (classified; non-carcinogenic feed-stock)	heat transferring agent, lubricating agent		PC: 24		8a, 8d	ESVOC SpERC 8.6e.v1
C-500	Y	C	12c - Use in fuel: Consumer (classified; non-carcinogenic feed-stock)	fuel		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1
C-501	Y	C	12c - Use in fuel: Consumer (classified; carcinogenic or unknown feed-stock)	fuel		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1

**b. List of Uses of each OtherGO substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	265-148-2	265-182-8	265-183-3
01 - Manufacture of substance (classified; carcinogenic or unknown feed-stock)	Y	Y	Y
01 - Manufacture of substance (classified; non-carcinogenic feed-stock)	Y	Y	Y
02 - Formulation & (re)packing of substances and mixtures (classified; carcinogenic or unknown feed-stock)	Y	Y	Y
02 - Formulation & (re)packing of substances and mixtures (classified; non-carcinogenic feed-stock)	Y	Y	Y
01b - Use of substance as intermediate (classified; carcinogenic or unknown feed-stock)	Y	Y	Y
01b - Use of substance as intermediate (classified; non-carcinogenic feed-stock)	Y		Y
03a - Uses in Coatings: Industrial (classified; non-carcinogenic feed-stock)	Y		Y
06a - Lubricants: Industrial (classified; non-carcinogenic feed-stock)	Y		Y
12a - Use in fuel: Industrial (classified; carcinogenic or unknown feed-stock)	Y	Y	Y
12a - Use in fuel: Industrial (classified; non-carcinogenic feed-stock)	Y	Y	Y
13a - Functional Fluids: Industrial (classified; carcinogenic or unknown feed-stock)			Y
13a - Functional Fluids: Industrial (classified; non-carcinogenic feed-stock)			Y
22a - Water treatment chemicals: Industrial (classified; non-carcinogenic feed-stock)	Y		Y
03b - Uses in Coatings: Professional (classified; non-carcinogenic feed-stock)			Y
06b - Lubricants: Professional (low environmental release) (classified; non-carcinogenic feed-stock)			Y
12b - Use in fuel: Professional (classified; carcinogenic or unknown feed-stock)			Y

Name	265-148-2	265-182-8	265-183-3
12b - Use in fuel: Professional (classified; non-carcinogenic feed-stock)	Y		Y
13b - Functional Fluids: Professional (classified; non-carcinogenic feed-stock)			Y
06d - Lubricants: Consumer (low environmental release) (classified; non-carcinogenic feed-stock)	Y		Y
06e - Lubricants: Consumer (high environmental release) (classified; non-carcinogenic feed-stock)			Y
12c - Use in fuel: Consumer (classified; carcinogenic or unknown feed-stock)			Y
12c - Use in fuel: Consumer (classified; non-carcinogenic feed-stock)			Y

### 3.7 Heavy Fuel Oils Components (HFO)

#### a. List of Uses and Use Descriptors for HFO substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (classified)				1, 2, 3, 8a, 8b, 15, 28	1	ESVOC SpERC 1.1.v1
F-4	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified)	no technical function			1, 2, 3, 8a, 8b, 15, 28	2	ESVOC SpERC 2.2.v1
IW-2	Y	IS	01b - Use of substance as intermediate (classified)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 8a, 8b, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-7	Y	IS	12a - Use in fuel: Industrial (classified)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
PW-8	Y	PW	12b - Use in fuel: Professional (classified)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1

**b. List of Uses of each HFO substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	265-045-2	265-058-3	265-063-0	265-064-6	265-069-3	265-076-1	265-081-9	265-082-4	265-162-9	265-181-2	265-189-6	269-777-3	270-675-6	270-796-4	271-384-7	271-763-7	272-184-2	273-263-4	274-684-6	274-685-1	292-658-2	295-511-0	298-754-0
01 - Manufacture of substance (classified)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
02 - Formulation & (re)packing of substances and mixtures (classified)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y
01b - Use of substance as intermediate (classified)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
12a - Use in fuel: Industrial (classified)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y
12b - Use in fuel: Professional (classified)	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y	Y	Y	Y	Y		Y	

### 3.8 Unrefined / Acid Treated Oils (UATO)

#### a. List of Uses and Use Descriptors for UATO substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (classified)				1, 2, 3, 8a, 8b, 15, 28	1	ESVOC SpERC 1.1.v1
F-4	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified)	no technical function			1, 2, 3, 8a, 8b, 15, 28	2	ESVOC SpERC 2.2.v1
IW-2	Y	IS	01b - Use of substance as intermediate (classified)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 8a, 8b, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-6	Y	IS	06a - Lubricants: Industrial (classified)	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 8a, 8b, 9, 28	4, 7	ESVOC SpERC 4.6a.v1
IW-7	Y	IS	07a - Metal working fluids / rolling oils: Industrial (classified)	corrosion inhibitor, heat transferring agent, lubricating agent		PC: 25	1, 2, 3, 8a, 8b, 28	4	ESVOC SpERC 4.7a.v1
IW-8	Y	IS	12a - Use in fuel: Industrial (classified)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
IW-9	Y	IS	13a - Functional Fluids: Industrial (classified)	heat transferring agent, insulators, lubricating agent		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 8a, 8b, 9, 28	7	ESVOC SpERC 7.13a.v1
IW-10	Y	IS	19 - Rubber production and processing: Industrial (classified)	plasticiser, processing aid	11	PC: 20, 32	1, 2, 3, 8a, 8b, 9, 15, 28	4	ESVOC SpERC 4.19a.v3
IW-11	Y	IS	21a - Polymer processing: Industrial (classified)	plasticiser, processing aid		PC: 32, 39	1, 2, 3, 8a, 8b, 9, 28	4	ESVOC SpERC 4.21a.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
IW-12	Y	IS	22a - Water treatment chemicals: Industrial (classified)	defoamer, flocculating agent		PC: 36, 40, 2, 8	1, 2, 3, 8a, 8b, 28	4	ESVOC SpERC 3.22a.v1

**b. List of Uses of each UATO substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	265-051-5	265-052-0
01 - Manufacture of substance (classified)	Y	Y
02 - Formulation & (re)packing of substances and mixtures (classified)	Y	Y
01b - Use of substance as intermediate (classified)	Y	Y
06a - Lubricants: Industrial (classified)	Y	Y
07a - Metal working fluids / rolling oils: Industrial (classified)	Y	Y
12a - Use in fuel: Industrial (classified)	Y	Y
13a - Functional Fluids: Industrial (classified)	Y	Y
19 - Rubber production and processing: Industrial (classified)	Y	Y
21a - Polymer processing: Industrial (classified)	Y	Y
22a - Water treatment chemicals: Industrial (classified)	Y	Y

### 3.9 Highly Refined Base Oils (HRBO)

#### a. List of Uses and Use Descriptors for HRBO substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (not classified)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
M-2	Y	M	01 - Manufacture of substance (classified as H304)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
F-7	Y	F	02 - Formulation & (re)packing of substances and mixtures (not classified)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
F-8	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified as H304)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
IW-3	Y	IS	01b - Use of substance as intermediate (not classified)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-4	Y	IS	01b - Use of substance as intermediate (classified as H304)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-9	Y	IS	03a - Uses in Coatings: Industrial (not classified)	compatibilizer, corrosion inhibitor, dust suppressant, processing aid, vehicle (carrier), 0=glossing agent		PC: 1, 9a	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 14, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-10	Y	IS	03a - Uses in Coatings: Industrial (classified as H304)	compatibilizer, corrosion inhibitor, dust suppressant, processing aid, vehicle (carrier), 0=glossing agent		PC: 1, 9a	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 14, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-15	Y	IS	04a - Use in Cleaning Agents: Industrial (not classified)	cleaning agent		PC: 35	1, 2, 3, 4, 7, 8a, 8b, 10, 13, 28	4	ESVOC SpERC 4.4a.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
IW-16	Y	IS	04a - Use in Cleaning Agents: Industrial (classified as H304)	cleaning agent		PC: 35	1, 2, 3, 4, 7, 8a, 8b, 10, 13, 28	4	ESVOC SpERC 4.4a.v1
IW-21	Y	IS	07a - Metal working fluids / rolling oils: Industrial (not classified)	corrosion inhibitor, heat transferring agent, lubricating agent		PC: 25	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 17, 28	4	ESVOC SpERC 4.7a.v1
IW-22	Y	IS	07a - Metal working fluids / rolling oils: Industrial (classified as H304)	corrosion inhibitor, heat transferring agent, lubricating agent		PC: 25	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 17, 28	4	ESVOC SpERC 4.7a.v1
IW-25	Y	IS	10a - Use as binders and release agents: Industrial (not classified)	antiadhesive		PC: 24, 14, 15, 9a, 9b, 9c, 20	1, 2, 3, 4, 6, 7, 8a, 8b, 10, 13, 14, 28	4	ESVOC SpERC 4.10a.v1
IW-26	Y	IS	10a - Use as binders and release agents: Industrial (classified as H304)	antiadhesive		PC: 24, 14, 15, 9a, 9b, 9c, 20	1, 2, 3, 4, 6, 7, 8a, 8b, 10, 13, 14, 28	4	ESVOC SpERC 4.10a.v1
IW-33	Y	IS	19 - Rubber production and processing: Industrial (not classified)	plasticiser, processing aid	11	PC: 20, 32	1, 2, 3, 4, 5, 6, 7, 8a, 8b, 9, 13, 14, 15, 28	4	ESVOC SpERC 4.19a.v3
IW-34	Y	IS	19 - Rubber production and processing: Industrial (classified as H304)	plasticiser, processing aid	11	PC: 20, 32	1, 2, 3, 4, 5, 6, 7, 8a, 8b, 9, 13, 14, 15, 28	4	ESVOC SpERC 4.19a.v3
IW-35	Y	IS	21a - Polymer processing: Industrial (not classified)	plasticiser, processing aid		PC: 32, 39	1, 2, 3, 4, 5, 6, 8a, 8b, 9, 13, 14, 28	4	ESVOC SpERC 4.21a.v1
IW-36	Y	IS	21a - Polymer processing: Industrial (classified as H304)	plasticiser, processing aid		PC: 32, 39	1, 2, 3, 4, 5, 6, 8a, 8b, 9, 13, 14, 28	4	ESVOC SpERC 4.21a.v1
IW-39	Y	IS	06a - Lubricants: Industrial (not classified)	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 7, 8a, 8b, 9, 10, 13, 17, 18, 28	4, 7	ESVOC SpERC 4.6a.v1
IW-40	Y	IS	06a - Lubricants: Industrial (classified as H304)	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 7, 8a, 8b, 9, 10, 13, 17, 18, 28	4, 7	ESVOC SpERC 4.6a.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
IW-49	Y	IS	17a - Use in laboratories: Industrial (not classified)	no technical function		PC: 21	15	4	ERC DEFINED RELEASE FRACTIONS
IW-50	Y	IS	17a - Use in laboratories: Industrial (classified as H304)	no technical function		PC: 21	15	4	ERC DEFINED RELEASE FRACTIONS
IW-53	Y	IS	22a - Water treatment chemicals: Industrial (not classified)	defoamer, flocculating agent		PC: 36, 40, 2, 8	1, 2, 3, 4, 8a, 8b, 13, 28	4	ESVOC SpERC 3.22a.v1
IW-54	Y	IS	22a - Water treatment chemicals: Industrial (classified as H304)	defoamer, flocculating agent		PC: 36, 40, 2, 8	1, 2, 3, 4, 8a, 8b, 13, 28	4	ESVOC SpERC 3.22a.v1
IW-59	Y	IS	13a - Functional Fluids: Industrial (not classified)	heat transferring agent, hydraulic (functional) fluids, impregnation agent, insulators, lubricating agent		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 4, 8a, 8b, 9, 28	7	ESVOC SpERC 7.13a.v1
IW-60	Y	IS	13a - Functional Fluids: Industrial (classified as H304)	heat transferring agent, hydraulic (functional) fluids, impregnation agent, insulators, lubricating agent		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 4, 8a, 8b, 9, 28	7	ESVOC SpERC 7.13a.v1
PW-11	Y	PW	03b - Uses in Coatings: Professional (not classified)	compatibilizer, corrosion inhibitor, dust suppressant, humectant, processing aid, vehicle (carrier), 0=glossing agent		PC: 1, 9a	1, 2, 3, 4, 5, 8a, 8b, 10, 11, 13, 15, 19, 28	8a, 8d	ESVOC SpERC 8.3b.v1
PW-12	Y	PW	03b - Uses in Coatings: Professional (classified as H304)	compatibilizer, corrosion inhibitor, dust suppressant, humectant, processing aid, vehicle (carrier), 0=glossing agent		PC: 1, 9a	1, 2, 3, 4, 5, 8a, 8b, 10, 11, 13, 15, 19, 28	8a, 8d	ESVOC SpERC 8.3b.v1
PW-17	Y	PW	04b - Use in Cleaning Agents: Professional (not classified)	cleaning agent		PC: 35	1, 2, 3, 4, 8a, 8b, 10, 11, 13, 19	8a, 8d	ESVOC SpERC 8.4b.v1
PW-18	Y	PW	04b - Use in Cleaning Agents: Professional (classified as H304)	cleaning agent		PC: 35	1, 2, 3, 4, 8a, 8b, 10, 11, 13, 19	8a, 8d	ESVOC SpERC 8.4b.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
PW-23	Y	PW	07b - Metal working fluids / rolling oils: Professional (not classified)	corrosion inhibitor, heat transferring agent, lubricating agent		PC: 25	1, 2, 3, 5, 8a, 8b, 9, 10, 11, 13, 17, 28	8a, 8d	ESVOC SpERC 8.7c.v1
PW-24	Y	PW	07b - Metal working fluids / rolling oils: Professional (classified as H304)	corrosion inhibitor, heat transferring agent, lubricating agent		PC: 25	1, 2, 3, 5, 8a, 8b, 9, 10, 11, 13, 17, 28	8a, 8d	ESVOC SpERC 8.7c.v1
PW-27	Y	PW	10b - Use as binders and release agents: Professional (not classified)	antiadhesive		PC: 24, 14, 15, 9a, 9b, 9c, 20	1, 2, 3, 4, 5, 6, 8a, 8b, 10, 11, 14	8a, 8d	ESVOC SpERC 8.10b.v1
PW-28	Y	PW	10b - Use as binders and release agents: Professional (classified as H304)	antiadhesive		PC: 24, 14, 15, 9a, 9b, 9c, 20	1, 2, 3, 4, 5, 6, 8a, 8b, 10, 11, 14	8a, 8d	ESVOC SpERC 8.10b.v1
PW-29	Y	PW	11a - Use in Agrochemicals: Professional (not classified)	dust suppressant, vehicle (carrier)		PC: 8, 12, 27	1, 2, 4, 8a, 8b, 11, 13, 28	8a, 8d	ESVOC SpERC 8.11a.v1
PW-30	Y	PW	11a - Use in Agrochemicals: Professional (classified as H304)	dust suppressant, vehicle (carrier)		PC: 8, 12, 27	1, 2, 4, 8a, 8b, 11, 13, 28	8a, 8d	ESVOC SpERC 8.11a.v1
PW-41	Y	PW	06b - Lubricants: Professional (low environmental release) (not classified)	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20, 28	9a, 9b	ESVOC SpERC 9.6b.v1
PW-42	Y	PW	06b - Lubricants: Professional (low environmental release) (classified as H304)	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20, 28	9a, 9b	ESVOC SpERC 9.6b.v1
PW-43	Y	PW	06c - Lubricants: Professional (high environmental release) (not classified)	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20, 28	8a, 8d	ESVOC SpERC 8.6c.v1
PW-44	Y	PW	06c - Lubricants: Professional (high environmental release) (classified as H304)	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20, 28	8a, 8d	ESVOC SpERC 8.6c.v1
PW-51	Y	PW	17b - Use in laboratories: Professional (not classified)	no technical function		PC: 21	15	8a	ESVOC SpERC 8.17.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
PW-52	Y	PW	17b - Use in laboratories: Professional (classified as H304)	no technical function		PC: 21	15	8a	ESVOC SpERC 8.17.v1
PW-55	Y	PW	22b - Water treatment chemicals: Professional (not classified)	defoamer, flocculating agent		PC: 36, 40, 2, 8	1, 2, 3, 4, 8a, 8b, 13, 28	8d	ESVOC SpERC 8.22b.v1
PW-56	Y	PW	22b - Water treatment chemicals: Professional (classified as H304)	defoamer, flocculating agent		PC: 36, 40, 2, 8	1, 2, 3, 4, 8a, 8b, 13, 28	8d	ESVOC SpERC 8.22b.v1
PW-57	Y	PW	18b - Explosives manufacture & use: Professional (not classified)	vehicle (carrier)		PC: 11	1, 2, 3, 5, 8a, 8b, 28	8e	ERC DEFINED RELEASE FRACTIONS
PW-58	Y	PW	18b - Explosives manufacture & use: Professional (classified as H304)	vehicle (carrier)		PC: 11	1, 2, 3, 5, 8a, 8b, 28	8e	ERC DEFINED RELEASE FRACTIONS
PW-61	Y	PW	13b - Functional Fluids: Professional (not classified)	heat transferring agent, hydraulic (functional) fluids, impregnation agent, insulators, lubricating agent		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 3, 8a, 9, 20, 28	9a, 9b	ESVOC SpERC 9.13b.v1
PW-62	Y	PW	13b - Functional Fluids: Professional (classified as H304)	heat transferring agent, hydraulic (functional) fluids, impregnation agent, insulators, lubricating agent		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 3, 8a, 9, 20, 28	9a, 9b	ESVOC SpERC 9.13b.v1
C-13	Y	C	03c - Uses in Coatings: Consumer (not classified)	vehicle (carrier)		PC: 1, 9a, 9b, 9c, 15, 18, 23, 34		8a, 8d	ESVOC SpERC 8.3c.v1
C-19	Y	C	04c - Use in Cleaning Agents: Consumer (not classified)	cleaning agent		PC: 3, 4, 31, 35, 38		8a, 8d	ESVOC SpERC 8.4c.v1
C-20	Y	C	04c - Use in Cleaning Agents: Consumer (classified as H304)	cleaning agent		PC: 3, 4, 31, 35, 38		8a, 8d	ESVOC SpERC 8.4c.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
C-31	Y	C	11b - Use in Agrochemicals: Consumer (not classified)	dust suppressant, vehicle (carrier)		PC: 12, 27		8a, 8d	ESVOC SpERC 8.11b.v1
C-32	Y	C	11b - Use in Agrochemicals: Consumer (classified as H304)	dust suppressant, vehicle (carrier)		PC: 12, 27		8a, 8d	ESVOC SpERC 8.11b.v1
C-37	Y	C	12c - Use in fuel: Consumer (not classified)	fuel		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1
C-38	Y	C	12c - Use in fuel: Consumer (classified as H304)	fuel		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1
C-45	Y	C	06d - Lubricants: Consumer (low environmental release) (not classified)	heat transferring agent, lubricating agent		PC: 24		9a, 9b	ESVOC SpERC 9.6d.v1
C-46	Y	C	06d - Lubricants: Consumer (low environmental release) (classified as H304)	heat transferring agent, lubricating agent		PC: 24		9a, 9b	ESVOC SpERC 9.6d.v1
C-47	Y	C	06e - Lubricants: Consumer (high environmental release) (not classified)	heat transferring agent, lubricating agent		PC: 24		8a, 8d	ESVOC SpERC 8.6e.v1
C-48	Y	C	06e - Lubricants: Consumer (high environmental release) (classified as H304)	heat transferring agent, lubricating agent		PC: 24		8a, 8d	ESVOC SpERC 8.6e.v1
C-63	Y	C	16 - Uses in cosmetics/personal care products, perfumes and fragrances (not classified)	vehicle (carrier)		PC: 39, 28		8a, 8d	ESVOC SpERC 8.16.v1
C-64	Y	C	16 - Uses in cosmetics/personal care products, perfumes and fragrances (classified as H304)	vehicle (carrier)		PC: 39, 28		8a, 8d	ESVOC SpERC 8.16.v1

**b. List of Uses of each HRBO substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	232-455-8
01 - Manufacture of substance (classified as H304)	Y
01 - Manufacture of substance (not classified)	Y
02 - Formulation & (re)packing of substances and mixtures (classified as H304)	Y
02 - Formulation & (re)packing of substances and mixtures (not classified)	Y
01b - Use of substance as intermediate (classified as H304)	Y
01b - Use of substance as intermediate (not classified)	Y
03a - Uses in Coatings: Industrial (classified as H304)	Y
03a - Uses in Coatings: Industrial (not classified)	Y
04a - Use in Cleaning Agents: Industrial (classified as H304)	Y
04a - Use in Cleaning Agents: Industrial (not classified)	Y
06a - Lubricants: Industrial (classified as H304)	Y
06a - Lubricants: Industrial (not classified)	Y
07a - Metal working fluids / rolling oils: Industrial (classified as H304)	Y
07a - Metal working fluids / rolling oils: Industrial (not classified)	Y
10a - Use as binders and release agents: Industrial (classified as H304)	Y
10a - Use as binders and release agents: Industrial (not classified)	Y
13a - Functional Fluids: Industrial (classified as H304)	Y
13a - Functional Fluids: Industrial (not classified)	Y
17a - Use in laboratories: Industrial (classified as H304)	Y
17a - Use in laboratories: Industrial (not classified)	Y
19 - Rubber production and processing: Industrial (classified as H304)	Y

Name	232-455-8
19 - Rubber production and processing: Industrial (not classified)	Y
21a - Polymer processing: Industrial (classified as H304)	Y
21a - Polymer processing: Industrial (not classified)	Y
22a - Water treatment chemicals: Industrial (classified as H304)	Y
22a - Water treatment chemicals: Industrial (not classified)	Y
03b - Uses in Coatings: Professional (classified as H304)	Y
03b - Uses in Coatings: Professional (not classified)	Y
04b - Use in Cleaning Agents: Professional (classified as H304)	Y
04b - Use in Cleaning Agents: Professional (not classified)	Y
06b - Lubricants: Professional (low environmental release) (classified as H304)	Y
06b - Lubricants: Professional (low environmental release) (not classified)	Y
06c - Lubricants: Professional (high environmental release) (classified as H304)	Y
06c - Lubricants: Professional (high environmental release) (not classified)	Y
07b - Metal working fluids / rolling oils: Professional (classified as H304)	Y
07b - Metal working fluids / rolling oils: Professional (not classified)	Y
10b - Use as binders and release agents: Professional (classified as H304)	Y
10b - Use as binders and release agents: Professional (not classified)	Y
11a - Use in Agrochemicals: Professional (classified as H304)	Y
11a - Use in Agrochemicals: Professional (not classified)	Y
13b - Functional Fluids: Professional (classified as H304)	Y
13b - Functional Fluids: Professional (not classified)	Y

Name	232-455-8
17b - Use in laboratories: Professional (classified as H304)	Y
17b - Use in laboratories: Professional (not classified)	Y
18b - Explosives manufacture & use: Professional (classified as H304)	Y
18b - Explosives manufacture & use: Professional (not classified)	Y
22b - Water treatment chemicals: Professional (classified as H304)	Y
22b - Water treatment chemicals: Professional (not classified)	Y
03c - Uses in Coatings: Consumer (not classified)	Y
04c - Use in Cleaning Agents: Consumer (classified as H304)	Y
04c - Use in Cleaning Agents: Consumer (not classified)	Y
06d - Lubricants: Consumer (low environmental release) (classified as H304)	Y
06d - Lubricants: Consumer (low environmental release) (not classified)	Y
06e - Lubricants: Consumer (high environmental release) (classified as H304)	Y
06e - Lubricants: Consumer (high environmental release) (not classified)	Y
11b - Use in Agrochemicals: Consumer (classified as H304)	Y
11b - Use in Agrochemicals: Consumer (not classified)	Y
12c - Use in fuel: Consumer (classified as H304)	Y
12c - Use in fuel: Consumer (not classified)	Y
16 - Uses in cosmetics/personal care products, perfumes and fragrances (classified as H304)	Y
16 - Uses in cosmetics/personal care products, perfumes and fragrances (not classified)	Y

### 3.10 Lubricant Base Oils (LBO)

#### a. List of Uses and Use Descriptors for LBO substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
M-2	Y	M	01 - Manufacture of substance (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
M-3	Y	M	01 - Manufacture of substance (classified; including H350, excluding H304; IP 346 ≥ 3%; > 20.5 cSt @ 40 °C)				1, 2, 3, 8a, 8b, 15, 28	1	ESVOC SpERC 1.1.v1
M-4	Y	M	01 - Manufacture of substance (classified; including H350 and H304; IP 346 ≥ 3%; ≤ 20.5 cSt @ 40 °C)				1, 2, 3, 8a, 8b, 15, 28	1	ESVOC SpERC 1.1.v1
F-13	Y	F	02 - Formulation & (re)packing of substances and mixtures (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
F-14	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
F-16	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified; including H350 and H304; IP 346 ≥ 3%; ≤ 20.5 cSt @ 40 °C)	no technical function			1, 2, 3, 8a, 8b, 15, 28	2	ESVOC SpERC 2.2.v1
IW-5	Y	IS	01b - Use of substance as intermediate (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
IW-6	Y	IS	01b - Use of substance as intermediate (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-7	Y	IS	01b - Use of substance as intermediate (classified; including H350, excluding H304; IP 346 ≥ 3%; > 20.5 cSt @ 40 °C)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 8a, 8b, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-8	Y	IS	01b - Use of substance as intermediate (classified; including H350 and H304; IP 346 ≥ 3%; ≤ 20.5 cSt @ 40 °C)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 8a, 8b, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-17	Y	IS	03a - Uses in Coatings: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	compatibilizer, corrosion inhibitor, dust suppressant, processing aid, vehicle (carrier)		PC: 1, 9a	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 14, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-18	Y	IS	03a - Uses in Coatings: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	compatibilizer, corrosion inhibitor, dust suppressant, processing aid, vehicle (carrier)		PC: 1, 9a	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 14, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-20	Y	IS	03a - Uses in Coatings: Industrial (classified; including H350 and H304; IP 346 ≥ 3%; ≤ 20.5 cSt @ 40 °C)	compatibilizer, corrosion inhibitor, dust suppressant, processing aid, vehicle (carrier)		PC: 1, 9a	1, 2, 3, 8a, 8b, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-25	Y	IS	04a - Use in Cleaning Agents: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	cleaning agent, processing aid		PC: 35	1, 2, 3, 4, 7, 8a, 8b, 10, 13, 28	4	ESVOC SpERC 4.4a.v1
IW-26	Y	IS	04a - Use in Cleaning Agents: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	cleaning agent, processing aid		PC: 35	1, 2, 3, 4, 7, 8a, 8b, 10, 13, 28	4	ESVOC SpERC 4.4a.v1
IW-35	Y	IS	07a - Metal working fluids / rolling oils: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	corrosion inhibitor, heat transferring agent, lubricating agent, processing aid		PC: 25	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 17, 28	4	ESVOC SpERC 4.7a.v1
IW-36	Y	IS	07a - Metal working fluids / rolling oils: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	corrosion inhibitor, heat transferring agent, lubricating agent, processing aid		PC: 25	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 17, 28	4	ESVOC SpERC 4.7a.v1

Lubricant Base Oils (LBO) - a. List of Uses and Use Descriptors for LBO substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
IW-41	Y	IS	10a - Use as binders and release agents: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	antiadhesive, processing aid		PC: 24, 14, 15, 9a, 9b, 9c, 20	1, 2, 3, 4, 6, 7, 8a, 8b, 10, 13, 14, 28	4	ESVOC SpERC 4.10a.v1
IW-42	Y	IS	10a - Use as binders and release agents: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	antiadhesive, processing aid		PC: 24, 14, 15, 9a, 9b, 9c, 20	1, 2, 3, 4, 6, 7, 8a, 8b, 10, 13, 14, 28	4	ESVOC SpERC 4.10a.v1
IW-53	Y	IS	19 - Rubber production and processing: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	compatibilizer, plasticiser, processing aid, softener	11	PC: 20, 32	1, 2, 3, 4, 5, 6, 7, 8a, 8b, 9, 13, 14, 15, 28	4	ESVOC SpERC 4.19a.v3
IW-54	Y	IS	19 - Rubber production and processing: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	compatibilizer, plasticiser, processing aid, softener	11	PC: 20, 32	1, 2, 3, 4, 5, 6, 7, 8a, 8b, 9, 13, 14, 15, 28	4	ESVOC SpERC 4.19a.v3
IW-57	Y	IS	21a - Polymer processing: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	compatibilizer, plasticiser, processing aid, softener		PC: 32, 39	1, 2, 3, 4, 5, 6, 8a, 8b, 9, 13, 14, 28	4	ESVOC SpERC 4.21a.v1
IW-58	Y	IS	21a - Polymer processing: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	compatibilizer, plasticiser, processing aid, softener		PC: 32, 39	1, 2, 3, 4, 5, 6, 8a, 8b, 9, 13, 14, 28	4	ESVOC SpERC 4.21a.v1
IW-61	Y	IS	12a - Use in fuel: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
IW-62	Y	IS	12a - Use in fuel: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
IW-67	Y	IS	06a - Lubricants: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	heat transferring agent, hydraulic (functional) fluids, lubricating agent, processing aid		PC: 24	1, 2, 3, 4, 7, 8a, 8b, 9, 10, 13, 17, 18, 28	4, 7	ESVOC SpERC 4.6a.v1
IW-68	Y	IS	06a - Lubricants: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	heat transferring agent, hydraulic (functional) fluids, lubricating agent, processing aid		PC: 24	1, 2, 3, 4, 7, 8a, 8b, 9, 10, 13, 17, 18, 28	4, 7	ESVOC SpERC 4.6a.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
IW-79	Y	IS	17a - Use in laboratories: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	no technical function		PC: 21	15	4	ERC DEFINED RELEASE FRACTIONS
IW-80	Y	IS	17a - Use in laboratories: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	no technical function		PC: 21	15	4	ERC DEFINED RELEASE FRACTIONS
IW-83	Y	IS	23 - Mining chemicals: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	defoamer, flotation agent		PC: 40, 2	1, 2, 3, 4, 5, 8a, 8b, 9, 28	4	ESVOC SpERC 4.23.v1
IW-84	Y	IS	23 - Mining chemicals: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	defoamer, flotation agent		PC: 40, 2	1, 2, 3, 4, 5, 8a, 8b, 9, 28	4	ESVOC SpERC 4.23.v1
IW-85	Y	IS	22a - Water treatment chemicals: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	defoamer, flocculating agent		PC: 36, 40, 2, 8	1, 2, 3, 4, 8a, 8b, 13, 28	4	ESVOC SpERC 3.22a.v1
IW-86	Y	IS	22a - Water treatment chemicals: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	defoamer, flocculating agent		PC: 36, 40, 2, 8	1, 2, 3, 4, 8a, 8b, 13, 28	4	ESVOC SpERC 3.22a.v1
IW-93	Y	IS	13a - Functional Fluids: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	heat transferring agent, hydraulic (functional) fluids, insulators, lubricating agent		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 4, 8a, 8b, 9, 28	7	ESVOC SpERC 7.13a.v1
IW-94	Y	IS	13a - Functional Fluids: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	heat transferring agent, hydraulic (functional) fluids, insulators, lubricating agent		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 4, 8a, 8b, 9, 28	7	ESVOC SpERC 7.13a.v1
IW-103	Y	IS	05aON - Use in Oil and Gas field drilling and production operations: Industrial onshore (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	barrier (sealant), vehicle (carrier)		PC: 41	1, 2, 3, 4, 8a, 8b, 9, 28	4	QUALITATIVE ASSESSMENT FOR ENVIRONMENT
IW-104	Y	IS	05aOFF - Use in Oil and Gas field drilling and production operations: Industrial offshore	barrier (sealant), vehicle (carrier)		PC: 41	1, 2, 3, 4, 8a, 8b, 9, 28	4	QUALITATIVE ASSESSMENT

Lubricant Base Oils (LBO) - a. List of Uses and Use Descriptors for LBO substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
			(not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)						FOR ENVIRONMENT
IW-105	Y	IS	05aON - Use in Oil and Gas field drilling and production operations: Industrial onshore (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	barrier (sealant), vehicle (carrier)		PC: 41	1, 2, 3, 4, 8a, 8b, 9, 28	4	QUALITATIVE ASSESSMENT FOR ENVIRONMENT
IW-106	Y	IS	05aOFF - Use in Oil and Gas field drilling and production operations: Industrial offshore (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	barrier (sealant), vehicle (carrier)		PC: 41	1, 2, 3, 4, 8a, 8b, 9, 28	4	QUALITATIVE ASSESSMENT FOR ENVIRONMENT
IW-117	Y	IS	03a - Uses in Coatings: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C (ASL))	compatibilizer, corrosion inhibitor, dust suppressant, processing aid, vehicle (carrier)		PC: 0=Gap sealant products	8a, 9, 13	5	ESVOC SpERC 4.3a.v1
PW-21	Y	PW	03b - Uses in Coatings: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	compatibilizer, corrosion inhibitor, dust suppressant, processing aid, vehicle (carrier)		PC: 1, 9a	1, 2, 3, 4, 5, 8a, 8b, 10, 11, 13, 15, 19, 28	8a, 8d	ESVOC SpERC 8.3b.v1
PW-22	Y	PW	03b - Uses in Coatings: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	compatibilizer, corrosion inhibitor, dust suppressant, processing aid, vehicle (carrier)		PC: 1, 9a	1, 2, 3, 4, 5, 8a, 8b, 10, 11, 13, 15, 19, 28	8a, 8d	ESVOC SpERC 8.3b.v1
PW-27	Y	PW	04b - Use in Cleaning Agents: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	cleaning agent, processing aid		PC: 35	1, 2, 3, 4, 8a, 8b, 10, 11, 13, 19	8a, 8d	ESVOC SpERC 8.4b.v1
PW-28	Y	PW	04b - Use in Cleaning Agents: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	cleaning agent, processing aid		PC: 35	1, 2, 3, 4, 8a, 8b, 10, 11, 13, 19	8a, 8d	ESVOC SpERC 8.4b.v1
PW-39	Y	PW	07b - Metal working fluids / rolling oils: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	corrosion inhibitor, heat transferring agent, lubricating agent, processing aid		PC: 25	1, 2, 3, 5, 8a, 8b, 9, 10, 11, 13, 17, 28	8a, 8d	ESVOC SpERC 8.7c.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
PW-40	Y	PW	07b - Metal working fluids / rolling oils: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	corrosion inhibitor, heat transferring agent, lubricating agent, processing aid		PC: 25	1, 2, 3, 5, 8a, 8b, 9, 10, 11, 13, 17, 28	8a, 8d	ESVOC SpERC 8.7c.v1
PW-45	Y	PW	10b - Use as binders and release agents: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	antiadhesive		PC: 24, 14, 15, 9a, 9b, 9c, 20	1, 2, 3, 4, 5, 6, 8a, 8b, 10, 11, 14	8a, 8d	ESVOC SpERC 8.10b.v1
PW-46	Y	PW	10b - Use as binders and release agents: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	antiadhesive		PC: 24, 14, 15, 9a, 9b, 9c, 20	1, 2, 3, 4, 5, 6, 8a, 8b, 10, 11, 14	8a, 8d	ESVOC SpERC 8.10b.v1
PW-47	Y	PW	11a - Use in Agrochemicals: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	dust suppressant, vehicle (carrier)		PC: 8, 12, 27	1, 2, 4, 8a, 8b, 11, 13, 28	8a, 8d	ESVOC SpERC 8.11a.v1
PW-48	Y	PW	11a - Use in Agrochemicals: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	dust suppressant, vehicle (carrier)		PC: 8, 12, 27	1, 2, 4, 8a, 8b, 11, 13, 28	8a, 8d	ESVOC SpERC 8.11a.v1
PW-51	Y	PW	15 - Road and construction applications: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	plasticiser, softener, vehicle (carrier)		PC: 1, 9b, 0=Road and Construction	1, 2, 8a, 8b, 9, 10, 11, 13, 28	8d	ESVOC SPERC 8.15.v2
PW-52	Y	PW	15 - Road and construction applications: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	plasticiser, softener, vehicle (carrier)		PC: 1, 9b, 0=Road and Construction	1, 2, 8a, 8b, 9, 10, 11, 13, 28	8d	ESVOC SPERC 8.15.v2
PW-59	Y	PW	21b - Polymer processing: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	compatibilizer, plasticiser, processing aid, softener		PC: 32, 39	1, 2, 6, 8a, 8b, 14, 28	8a, 8d	ESVOC SpERC 8.21b.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
PW-60	Y	PW	21b - Polymer processing: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	compatibilizer, plasticiser, processing aid, softener		PC: 32, 39	1, 2, 6, 8a, 8b, 14, 28	8a, 8d	ESVOC SpERC 8.21b.v1
PW-63	Y	PW	12b - Use in fuel: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
PW-64	Y	PW	12b - Use in fuel: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
PW-71	Y	PW	06b - Lubricants: Professional (low environmental release) (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	heat transferring agent, hydraulic (functional) fluids, lubricating agent, processing aid		PC: 24	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20, 28	9a, 9b	ESVOC SpERC 9.6b.v1
PW-72	Y	PW	06b - Lubricants: Professional (low environmental release) (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	heat transferring agent, hydraulic (functional) fluids, lubricating agent, processing aid		PC: 24	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20, 28	9a, 9b	ESVOC SpERC 9.6b.v1
PW-73	Y	PW	06c - Lubricants: Professional (high environmental release) (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	heat transferring agent, hydraulic (functional) fluids, lubricating agent, processing aid		PC: 24	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20, 28	8a, 8d	ESVOC SpERC 8.6c.v1
PW-74	Y	PW	06c - Lubricants: Professional (high environmental release) (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	heat transferring agent, hydraulic (functional) fluids, lubricating agent, processing aid		PC: 24	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20, 28	8a, 8d	ESVOC SpERC 8.6c.v1
PW-81	Y	PW	17b - Use in laboratories: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	no technical function		PC: 21	15	8a	ESVOC SpERC 8.17.v1
PW-82	Y	PW	17b - Use in laboratories: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	no technical function		PC: 21	15	8a	ESVOC SpERC 8.17.v1
PW-89	Y	PW	22b - Water treatment chemicals: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	defoamer, flocculating agent		PC: 36, 40, 2, 8	1, 2, 3, 4, 8a, 8b, 13, 28	8d	ESVOC SpERC 8.22b.v1

Lubricant Base Oils (LBO) - a. List of Uses and Use Descriptors for LBO substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
PW-90	Y	PW	22b - Water treatment chemicals: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	defoamer, flocculating agent		PC: 36, 40, 2, 8	1, 2, 3, 4, 8a, 8b, 13, 28	8d	ESVOC SpERC 8.22b.v1
PW-91	Y	PW	18b - Explosives manufacture & use: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	vehicle (carrier)		PC: 11	1, 2, 3, 5, 8a, 8b, 28	8e	ERC DEFINED RELEASE FRACTIONS
PW-92	Y	PW	18b - Explosives manufacture & use: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	vehicle (carrier)		PC: 11	1, 2, 3, 5, 8a, 8b, 28	8e	ERC DEFINED RELEASE FRACTIONS
PW-97	Y	PW	13b - Functional Fluids: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	heat transferring agent, hydraulic (functional) fluids, insulators, lubricating agent		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 3, 8a, 9, 20, 28	9a, 9b	ESVOC SpERC 9.13b.v1
PW-98	Y	PW	13b - Functional Fluids: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	heat transferring agent, hydraulic (functional) fluids, insulators, lubricating agent		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 3, 8a, 9, 20, 28	9a, 9b	ESVOC SpERC 9.13b.v1
PW-107	Y	PW	05bON - Use in Oil and Gas field drilling and production operations: Professional onshore (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	barrier (sealant), vehicle (carrier)		PC: 41	1, 2, 3, 4, 8a, 8b, 9, 28	8d	QUALITATIVE ASSESSMENT FOR ENVIRONMENT
PW-108	Y	PW	05bOFF - Use in Oil and Gas field drilling and production operations: Professional offshore (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	barrier (sealant), vehicle (carrier)		PC: 41	1, 2, 3, 4, 8a, 8b, 9, 28	8d	QUALITATIVE ASSESSMENT FOR ENVIRONMENT
PW-109	Y	PW	05bON - Use in Oil and Gas field drilling and production operations: Professional onshore (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	barrier (sealant), vehicle (carrier)		PC: 41	1, 2, 3, 4, 8a, 8b, 9, 28	8d	QUALITATIVE ASSESSMENT FOR ENVIRONMENT

Lubricant Base Oils (LBO) - a. List of Uses and Use Descriptors for LBO substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
PW-110	Y	PW	05bOFF - Use in Oil and Gas field drilling and production operations: Professional offshore (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	barrier (sealant), vehicle (carrier)		PC: 41	1, 2, 3, 4, 8a, 8b, 9, 28	8d	QUALITATIVE ASSESSMENT FOR ENVIRONMENT
PW-221	Y	PW	03b - Uses in Coatings: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C (ASL))	compatibilizer, corrosion inhibitor, dust suppressant, processing aid, vehicle (carrier)		PC: 0=Gap sealant products	10, 13	8c, 8f	ESVOC SpERC 8.3b.v1
C-23	Y	C	03c - Uses in Coatings: Consumer (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	corrosion inhibitor, processing aid, vehicle (carrier)		PC: 1, 9a, 9b, 9c, 15, 18, 23, 34		8a, 8d	ESVOC SpERC 8.3c.v1
C-24	Y	C	03c - Uses in Coatings: Consumer (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	corrosion inhibitor, processing aid, vehicle (carrier)		PC: 1, 9a, 9b, 9c, 15, 18, 23, 34		8a, 8d	ESVOC SpERC 8.3c.v1
C-29	Y	C	04c - Use in Cleaning Agents: Consumer (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	cleaning agent		PC: 3, 4, 31, 35, 38		8a, 8d	ESVOC SpERC 8.4c.v1
C-30	Y	C	04c - Use in Cleaning Agents: Consumer (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	cleaning agent		PC: 3, 4, 31, 35, 38		8a, 8d	ESVOC SpERC 8.4c.v1
C-49	Y	C	11b - Use in Agrochemicals: Consumer (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	dust suppressant, vehicle (carrier)		PC: 12, 27		8a, 8d	ESVOC SpERC 8.11b.v1
C-50	Y	C	11b - Use in Agrochemicals: Consumer (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	dust suppressant, vehicle (carrier)		PC: 12, 27		8a, 8d	ESVOC SpERC 8.11b.v1
C-65	Y	C	12c - Use in fuel: Consumer (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	fuel		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1
C-66	Y	C	12c - Use in fuel: Consumer (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	fuel		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
C-75	Y	C	06d - Lubricants: Consumer (low environmental release) (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	heat transferring agent, hydraulic (functional) fluids, lubricating agent		PC: 24		9a, 9b	ESVOC SpERC 9.6d.v1
C-76	Y	C	06d - Lubricants: Consumer (low environmental release) (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	heat transferring agent, hydraulic (functional) fluids, lubricating agent		PC: 24		9a, 9b	ESVOC SpERC 9.6d.v1
C-77	Y	C	06e - Lubricants: Consumer (high environmental release) (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	heat transferring agent, hydraulic (functional) fluids, lubricating agent		PC: 24		8a, 8d	ESVOC SpERC 8.6e.v1
C-78	Y	C	06e - Lubricants: Consumer (high environmental release) (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	heat transferring agent, hydraulic (functional) fluids, lubricating agent		PC: 24		8a, 8d	ESVOC SpERC 8.6e.v1
C-99	Y	C	13c - Functional Fluids: Consumer (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	heat transferring agent, hydraulic (functional) fluids, insulators, lubricating agent		PC: 16, 17		9a, 9b	ESVOC SpERC 9.13c.v1
C-100	Y	C	13c - Functional Fluids: Consumer (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	heat transferring agent, hydraulic (functional) fluids, insulators, lubricating agent		PC: 16, 17		9a, 9b	ESVOC SpERC 9.13c.v1
SL-101	Y	SL	A15SLb - Use in Road and construction applications: Service life (Professional) (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	plasticiser, softener, vehicle (carrier)			21	10a	ESVOC SPERC 8.15.v2
SL-102	Y	SL	A15SLb - Use in Road and construction applications: Service life (Professional) (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	plasticiser, softener, vehicle (carrier)			21	10a	ESVOC SPERC 8.15.v2
SL-300	Y	SL	A03aSL2 - Uses in Coatings: Service life (Industrial) (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	barrier (sealant), binder, brightener, corrosion inhibitor, dispersing agent, dust suppressant, finishing agents, heat transferring agent,			21	12c	

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
				lubricating agent, plating agent, pressure transfer agent, processing aid, surface modifier, vehicle (carrier), viscosity modifier, waterproofing agent					
SL-301	Y	SL	A03bSL2 - Uses in Coatings: Service life (Professional) (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	compatibilizer, corrosion inhibitor, dust suppressant, processing aid, vehicle (carrier)			21	10a, 11a	

b. List of Uses of each LBO substance as detailed in the respective Chemical Safety Report, listed by EC number

Name	265-077-7	265-090-8	265-091-3	265-096-0	265-097-6	265-101-6	265-155-0	265-156-6	265-157-1	265-158-7	265-159-2	265-160-8	265-166-0	265-169-7	265-174-4	265-176-5	276-736-3	276-737-9	276-738-4	278-012-2
01 - Manufacture of substance (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	Y	Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y		Y	Y	
01 - Manufacture of substance (classified; including H350 and H304; IP 346 ≥ 3%; ≤ 20.5 cSt @ 40 °C)	Y							Y		Y	Y									
01 - Manufacture of substance (classified; including H350, excluding H304; IP 346 ≥ 3%; > 20.5 cSt @ 40 °C)		Y		Y									Y	Y						
01 - Manufacture of substance (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y				Y	Y
02 - Formulation & (re)packing of substances and mixtures (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
02 - Formulation & (re)packing of substances and mixtures (classified; including H350 and H304; IP 346 ≥ 3%; ≤ 20.5 cSt @ 40 °C)								Y												
02 - Formulation & (re)packing of substances and mixtures (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
01b - Use of substance as intermediate (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	Y	Y	Y			Y		Y	Y	Y	Y		Y	Y		Y				
01b - Use of substance as intermediate (classified; including H350 and H304; IP 346 ≥ 3%; ≤ 20.5 cSt @ 40 °C)	Y									Y	Y									
01b - Use of substance as intermediate (classified; including H350, excluding H304; IP 346 ≥ 3%; > 20.5 cSt @ 40 °C)		Y		Y									Y	Y						
01b - Use of substance as intermediate (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y					Y	Y
03a - Uses in Coatings: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y
03a - Uses in Coatings: Industrial (classified; including H350 and H304; IP 346 ≥ 3%; ≤ 20.5 cSt @ 40 °C)								Y												
03a - Uses in Coatings: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C (ASL))				Y			Y		Y			Y	Y	Y						
03a - Uses in Coatings: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y

Name	265-077-7	265-090-8	265-091-3	265-096-0	265-097-6	265-101-6	265-155-0	265-156-6	265-157-1	265-158-7	265-159-2	265-160-8	265-166-0	265-169-7	265-174-4	265-176-5	276-736-3	276-737-9	276-738-4	278-012-2
04a - Use in Cleaning Agents: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	Y	Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y
04a - Use in Cleaning Agents: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y
05aOFF - Use in Oil and Gas field drilling and production operations: Industrial offshore (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y
05aOFF - Use in Oil and Gas field drilling and production operations: Industrial offshore (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y		Y	Y			Y	Y	Y	Y
05aON - Use in Oil and Gas field drilling and production operations: Industrial onshore (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y			Y	Y	Y	Y
05aON - Use in Oil and Gas field drilling and production operations: Industrial onshore (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y		Y	Y			Y	Y	Y	Y
06a - Lubricants: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
06a - Lubricants: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
07a - Metal working fluids / rolling oils: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y
07a - Metal working fluids / rolling oils: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y
10a - Use as binders and release agents: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	
10a - Use as binders and release agents: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	
12a - Use in fuel: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	
12a - Use in fuel: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	
13a - Functional Fluids: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	Y	Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y
13a - Functional Fluids: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y

Name	265-077-7	265-090-8	265-091-3	265-096-0	265-097-6	265-101-6	265-155-0	265-156-6	265-157-1	265-158-7	265-159-2	265-160-8	265-166-0	265-169-7	265-174-4	265-176-5	276-736-3	276-737-9	276-738-4	278-012-2
17a - Use in laboratories: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y
17a - Use in laboratories: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y
19 - Rubber production and processing: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	Y	Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y
19 - Rubber production and processing: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
21a - Polymer processing: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y
21a - Polymer processing: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y
22a - Water treatment chemicals: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	
22a - Water treatment chemicals: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	
23 - Mining chemicals: Industrial (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	
23 - Mining chemicals: Industrial (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	
03b - Uses in Coatings: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y
03b - Uses in Coatings: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C (ASL))				Y			Y		Y			Y	Y	Y						
03b - Uses in Coatings: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
04b - Use in Cleaning Agents: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y
04b - Use in Cleaning Agents: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y
05bOFF - Use in Oil and Gas field drilling and production operations: Professional offshore (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y

Name	265-077-7	265-090-8	265-091-3	265-096-0	265-097-6	265-101-6	265-155-0	265-156-6	265-157-1	265-158-7	265-159-2	265-160-8	265-166-0	265-169-7	265-174-4	265-176-5	276-736-3	276-737-9	276-738-4	278-012-2
05bOFF - Use in Oil and Gas field drilling and production operations: Professional offshore (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y			Y	Y	Y	Y
05bON - Use in Oil and Gas field drilling and production operations: Professional onshore (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y			Y	Y	Y	Y
05bON - Use in Oil and Gas field drilling and production operations: Professional onshore (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y		Y	Y			Y	Y	Y	Y
06b - Lubricants: Professional (low environmental release) (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
06b - Lubricants: Professional (low environmental release) (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y
06c - Lubricants: Professional (high environmental release) (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y		Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
06c - Lubricants: Professional (high environmental release) (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y
07b - Metal working fluids / rolling oils: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y
07b - Metal working fluids / rolling oils: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y
10b - Use as binders and release agents: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	
10b - Use as binders and release agents: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	
11a - Use in Agrochemicals: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y
11a - Use in Agrochemicals: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y
12b - Use in fuel: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	
12b - Use in fuel: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y
13b - Functional Fluids: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	Y	Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y

Name	265-077-7	265-090-8	265-091-3	265-096-0	265-097-6	265-101-6	265-155-0	265-156-6	265-157-1	265-158-7	265-159-2	265-160-8	265-166-0	265-169-7	265-174-4	265-176-5	276-736-3	276-737-9	276-738-4	278-012-2
13b - Functional Fluids: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y
15 - Road and construction applications: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y
15 - Road and construction applications: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y
17b - Use in laboratories: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y
17b - Use in laboratories: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y
18b - Explosives manufacture & use: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	
18b - Explosives manufacture & use: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	
21b - Polymer processing: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y
21b - Polymer processing: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y
22b - Water treatment chemicals: Professional (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	
22b - Water treatment chemicals: Professional (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	
03c - Uses in Coatings: Consumer (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y
03c - Uses in Coatings: Consumer (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
04c - Use in Cleaning Agents: Consumer (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y			Y	Y	Y	Y
04c - Use in Cleaning Agents: Consumer (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y
06d - Lubricants: Consumer (low environmental release) (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
06d - Lubricants: Consumer (low environmental release) (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y

Name	265-077-7	265-090-8	265-091-3	265-096-0	265-097-6	265-101-6	265-155-0	265-156-6	265-157-1	265-158-7	265-159-2	265-160-8	265-166-0	265-169-7	265-174-4	265-176-5	276-736-3	276-737-9	276-738-4	278-012-2
06e - Lubricants: Consumer (high environmental release) (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y		Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
06e - Lubricants: Consumer (high environmental release) (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y
11b - Use in Agrochemicals: Consumer (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y			Y	Y	Y	
11b - Use in Agrochemicals: Consumer (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	
12c - Use in fuel: Consumer (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y			Y	Y	Y	
12c - Use in fuel: Consumer (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y
13c - Functional Fluids: Consumer (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y			Y	Y	Y	Y
13c - Functional Fluids: Consumer (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y
A03aSL2 - Uses in Coatings: Service life (Industrial) (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)				Y			Y		Y			Y	Y	Y						
A03bSL2 - Uses in Coatings: Service life (Professional) (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)				Y			Y		Y			Y	Y	Y						
A15SLb - Use in Road and construction applications: Service life (Professional) (classified; H304 only; IP 346 < 3%; ≤ 20.5 cSt @ 40 °C)		Y	Y			Y	Y	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y
A15SLb - Use in Road and construction applications: Service life (Professional) (not classified; IP 346 < 3%; > 20.5 cSt @ 40 °C)		Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y			Y	Y	Y	Y

### 3.11 Untreated Distillate Aromatic Extracts (UDAE)

#### a. List of Uses and Use Descriptors for UDAE substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (classified)				1, 2, 3, 8a, 8b, 15, 28	1	ESVOC SpERC 1.1.v1
F-4	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified)	no technical function			1, 2, 3, 8a, 8b, 15, 28	2	ESVOC SpERC 2.2.v1
IW-2	Y	IS	01b - Use of substance as intermediate (classified)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 8a, 8b, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-5	Y	IS	03a - Uses in Coatings: Industrial (classified)	barrier (sealant), binder, dye, impregnation agent		PC: 1, 9a	1, 2, 3, 8a, 8b, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-7	Y	IS	12a - Use in fuel: Industrial (classified)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
IW-9	Y	IS	19 - Rubber production and processing: Industrial (classified)	adhesion promotor, binder, compatibilizer, hardener, plasticiser, processing aid, softener, tackifier, thickener / thickening agent	11	PC: 20, 32	1, 2, 3, 8a, 8b, 9, 10, 15, 28	4	ESVOC SpERC 4.19a.v3
PW-8	Y	PW	12b - Use in fuel: Professional (classified)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1

**b. List of Uses of each UDAE substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	265-103-7	265-104-2
01 - Manufacture of substance (classified)	Y	Y
02 - Formulation & (re)packing of substances and mixtures (classified)	Y	Y
01b - Use of substance as intermediate (classified)	Y	Y
03a - Uses in Coatings: Industrial (classified)	Y	Y
12a - Use in fuel: Industrial (classified)	Y	Y
19 - Rubber production and processing: Industrial (classified)	Y	Y
12b - Use in fuel: Professional (classified)	Y	Y

### 3.12 Treated Distillate Aromatic Extracts (TDAE)

#### a. List of Uses and Use Descriptors for TDAE substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (not classified; IP 346 < 3%)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
M-2	Y	M	01 - Manufacture of substance (classified; including H304, excluding H350; IP 346 < 3%; viscosity ≤ 20.5 mm <sup>2</sup> /s at 40 °C)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
M-3	Y	M	01 - Manufacture of substance (classified; including H350 (IP 346 ≥ 3%); H361d and H372)				1, 2, 3, 8a, 8b, 15, 28	1	ESVOC SpERC 1.1.v1
F-10	Y	F	02 - Formulation & (re)packing of substances and mixtures (not classified; IP 346 < 3%)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
F-11	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified; including H304, excluding H350; IP 346 < 3%; viscosity ≤ 20.5 mm <sup>2</sup> /s at 40 °C)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
F-12	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified; including H350 (IP 346 ≥ 3%); H361d and H372)	no technical function			1, 2, 3, 8a, 8b, 15, 28	2	ESVOC SpERC 2.2.v1
IW-4	Y	IS	01b - Use of substance as intermediate (not classified; IP 346 < 3%)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-5	Y	IS	01b - Use of substance as intermediate (classified; including H304, excluding H350; IP 346 < 3%; viscosity ≤ 20.5 mm <sup>2</sup> /s at 40 °C)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
IW-6	Y	IS	01b - Use of substance as intermediate (classified; including H350 (IP 346 $\geq$ 3%); H361d and H372)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 8a, 8b, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-13	Y	IS	03a - Uses in Coatings: Industrial (not classified; IP 346 < 3%)	processing aid, vehicle (carrier)		PC: 1, 9a	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 14, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-14	Y	IS	03a - Uses in Coatings: Industrial (classified; including H304, excluding H350; IP 346 < 3%; viscosity $\leq$ 20.5 mm <sup>2</sup> /s at 40 °C)	processing aid, vehicle (carrier)		PC: 1, 9a	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 14, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-16	Y	IS	12a - Use in fuel: Industrial (classified; including H350 (IP 346 $\geq$ 3%); H361d and H372)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
IW-17	Y	IS	19 - Rubber production and processing: Industrial (not classified; IP 346 < 3%)	plasticiser, processing aid	11	PC: 20, 32	1, 2, 3, 4, 5, 6, 7, 8a, 8b, 9, 13, 14, 15, 28	4	ESVOC SpERC 4.19a.v3
IW-18	Y	IS	19 - Rubber production and processing: Industrial (classified; including H304, excluding H350; IP 346 < 3%; viscosity $\leq$ 20.5 mm <sup>2</sup> /s at 40 °C)	plasticiser, processing aid	11	PC: 20, 32	1, 2, 3, 4, 5, 6, 7, 8a, 8b, 9, 13, 14, 15, 28	4	ESVOC SpERC 4.19a.v3
IW-19	Y	IS	19 - Rubber production and processing: Industrial (classified; including H350 (IP 346 $\geq$ 3%); H361d and H372)	plasticiser, processing aid	11	PC: 20, 32	1, 2, 3, 8a, 8b, 9, 15, 28	4	ESVOC SpERC 4.19a.v3
IW-20	Y	IS	21a - Polymer processing: Industrial (not classified; IP 346 < 3%)	plasticiser, processing aid		PC: 32, 39	1, 2, 3, 4, 5, 6, 8a, 8b, 9, 13, 14, 28	4	ESVOC SpERC 4.21a.v1
IW-21	Y	IS	21a - Polymer processing: Industrial (classified; including H304, excluding H350; IP 346 < 3%; viscosity $\leq$ 20.5 mm <sup>2</sup> /s at 40 °C)	plasticiser, processing aid		PC: 32, 39	1, 2, 3, 4, 5, 6, 8a, 8b, 9, 13, 14, 28	4	ESVOC SpERC 4.21a.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
IW-22	Y	IS	21a - Polymer processing: Industrial (classified; including H350 (IP 346 ≥ 3%); H361d and H372)	plasticiser, processing aid		PC: 32, 39	1, 2, 3, 8a, 8b, 9, 28	4	ESVOC SpERC 4.21a.v1

**b. List of Uses of each TDAE substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	272-180-0
01 - Manufacture of substance (classified; including H304, excluding H350; IP 346 < 3%; viscosity ≤ 20.5 mm <sup>2</sup> /s at 40 °C)	Y
01 - Manufacture of substance (classified; including H350 (IP 346 ≥ 3%); H361d and H372)	Y
01 - Manufacture of substance (not classified; IP 346 < 3%)	Y
02 - Formulation & (re)packing of substances and mixtures (classified; including H304, excluding H350; IP 346 < 3%; viscosity ≤ 20.5 mm <sup>2</sup> /s at 40 °C)	Y
02 - Formulation & (re)packing of substances and mixtures (classified; including H350 (IP 346 ≥ 3%); H361d and H372)	Y
02 - Formulation & (re)packing of substances and mixtures (not classified; IP 346 < 3%)	Y
01b - Use of substance as intermediate (classified; including H304, excluding H350; IP 346 < 3%; viscosity ≤ 20.5 mm <sup>2</sup> /s at 40 °C)	Y
01b - Use of substance as intermediate (classified; including H350 (IP 346 ≥ 3%); H361d and H372)	Y
01b - Use of substance as intermediate (not classified; IP 346 < 3%)	Y
03a - Uses in Coatings: Industrial (classified; including H304, excluding H350; IP 346 < 3%; viscosity ≤ 20.5 mm <sup>2</sup> /s at 40 °C)	Y
03a - Uses in Coatings: Industrial (not classified; IP 346 < 3%)	Y
12a - Use in fuel: Industrial (classified; including H350 (IP 346 ≥ 3%); H361d and H372)	Y
19 - Rubber production and processing: Industrial (classified; including H304, excluding H350; IP 346 < 3%; viscosity ≤ 20.5 mm <sup>2</sup> /s at 40 °C)	Y
19 - Rubber production and processing: Industrial (classified; including H350 (IP 346 ≥ 3%); H361d and H372)	Y
19 - Rubber production and processing: Industrial (not classified; IP 346 < 3%)	Y
21a - Polymer processing: Industrial (classified; including H304, excluding H350; IP 346 < 3%; viscosity ≤ 20.5 mm <sup>2</sup> /s at 40 °C)	Y

Name	272-180-0
21a - Polymer processing: Industrial (classified; including H350 (IP 346 $\geq$ 3%); H361d and H372)	Y
21a - Polymer processing: Industrial (not classified; IP 346 < 3%)	Y

### 3.13 Residual Aromatic Extracts (RAE)

#### a. List of Uses and Use Descriptors for RAE substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (not classified)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
M-2	Y	M	01 - Manufacture of substance (classified as H351)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
F-7	Y	F	02 - Formulation & (re)packing of substances and mixtures (not classified)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
F-8	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified as H351)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
IW-3	Y	IS	01b - Use of substance as intermediate (not classified)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-4	Y	IS	01b - Use of substance as intermediate (classified as H351)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-9	Y	IS	03a - Uses in Coatings: Industrial (not classified)	barrier (sealant), binder, corrosion inhibitor, vehicle (carrier)		PC: 1, 9a	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 14, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-10	Y	IS	03a - Uses in Coatings: Industrial (classified as H351)	barrier (sealant), binder, corrosion inhibitor, vehicle (carrier)		PC: 1, 9a	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 14, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-13	Y	IS	07a - Metal working fluids / rolling oils: Industrial (not classified)	corrosion inhibitor, heat transferring agent, lubricating agent		PC: 25	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 17, 28	4	ESVOC SpERC 4.7a.v1
IW-15	Y	IS	10a - Use as binders and release agents: Industrial (not classified)	antiadhesive, binder		PC: 24, 14, 15, 9a, 9b, 9c, 20	1, 2, 3, 4, 6, 7, 8a, 8b, 10, 13, 14, 28	4	ESVOC SpERC 4.10a.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
IW-16	Y	IS	10a - Use as binders and release agents: Industrial (classified as H351)	antiadhesive, binder		PC: 24, 14, 15, 9a, 9b, 9c, 20	1, 2, 3, 4, 6, 7, 8a, 8b, 10, 13, 14, 28	4	ESVOC SpERC 4.10a.v1
IW-20	Y	IS	19 - Rubber production and processing: Industrial (not classified)	plasticiser, processing aid	11	PC: 20, 32	1, 2, 3, 4, 5, 6, 7, 8a, 8b, 9, 13, 14, 15, 28	4	ESVOC SpERC 4.19a.v3
IW-21	Y	IS	19 - Rubber production and processing: Industrial (classified as H351)	plasticiser, processing aid	11	PC: 20, 32	1, 2, 3, 4, 5, 6, 7, 8a, 8b, 9, 13, 14, 15, 28	4	ESVOC SpERC 4.19a.v3
IW-22	Y	IS	21a - Polymer processing: Industrial (not classified)	processing aid		PC: 32, 39	1, 2, 3, 4, 5, 6, 8a, 8b, 9, 13, 14, 28	4	ESVOC SpERC 4.21a.v1
IW-24	Y	IS	12a - Use in fuel: Industrial (not classified)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
IW-26	Y	IS	06a - Lubricants: Industrial (not classified)	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 7, 8a, 8b, 9, 10, 13, 17, 18, 28	4, 7	ESVOC SpERC 4.6a.v1
PW-11	Y	PW	03b - Uses in Coatings: Professional (not classified)	barrier (sealant), binder, corrosion inhibitor, vehicle (carrier)		PC: 1, 9a	1, 2, 3, 4, 5, 8a, 8b, 10, 11, 13, 15, 19, 28	8a, 8d	ESVOC SpERC 8.3b.v1
PW-17	Y	PW	10b - Use as binders and release agents: Professional (not classified)	antiadhesive, binder		PC: 24, 14, 15, 9a, 9b, 9c, 20	1, 2, 3, 4, 5, 6, 8a, 8b, 10, 11, 14	8a, 8d	ESVOC SpERC 8.10b.v1
PW-18	Y	PW	11a - Use in Agrochemicals: Professional (not classified)	dust suppressant, vehicle (carrier)		PC: 8, 12, 27	1, 2, 4, 8a, 8b, 11, 13, 28	8a, 8d	ESVOC SpERC 8.11a.v1
PW-19	Y	PW	15 - Road and construction applications: Professional (not classified)	barrier (sealant), binder, waterproofing agent		PC: 1, 9b, 0=Road and Construction	1, 2, 8a, 8b, 9, 10, 11, 13, 28	8d	ESVOC SPERC 8.15.v2

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
PW-23	Y	PW	21b - Polymer processing: Professional (not classified)	processing aid		PC: 32, 39	1, 2, 6, 8a, 8b, 14, 28	8a, 8d	ESVOC SpERC 8.21b.v1
PW-28	Y	PW	06c - Lubricants: Professional (high environmental release) (not classified)	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20, 28	8a, 8d	ESVOC SpERC 8.6c.v1
PW-32	Y	PW	13b - Functional Fluids: Professional (not classified)	heat transferring agent, hydraulic (functional) fluids, insulators		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 3, 8a, 9, 20, 28	9a, 9b	ESVOC SpERC 9.13b.v1
C-12	Y	C	03c - Uses in Coatings: Consumer (not classified)	barrier (sealant), binder, corrosion inhibitor, vehicle (carrier)		PC: 1, 9a, 9b, 9c, 15, 18, 23, 24		8a, 8d	ESVOC SpERC 8.3c.v1
C-29	Y	C	06d - Lubricants: Consumer (low environmental release) (not classified)	heat transferring agent, lubricating agent		PC: 24		9a, 9b	ESVOC SpERC 9.6d.v1
C-30	Y	C	06e - Lubricants: Consumer (high environmental release) (not classified)	heat transferring agent, lubricating agent		PC: 24		8a, 8d	ESVOC SpERC 8.6e.v1
SL-33	Y	SL	A15SLb - Use in Road and construction applications: Service life (Professional) (not classified)	barrier (sealant), binder, waterproofing agent			21	10a	ESVOC SpERC 8.15.v2

**b. List of Uses of each RAE substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	265-110-5
01 - Manufacture of substance (classified as H351)	Y
01 - Manufacture of substance (not classified)	Y
02 - Formulation & (re)packing of substances and mixtures (classified as H351)	Y
02 - Formulation & (re)packing of substances and mixtures (not classified)	Y
01b - Use of substance as intermediate (classified as H351)	Y
01b - Use of substance as intermediate (not classified)	Y
03a - Uses in Coatings: Industrial (classified as H351)	Y
03a - Uses in Coatings: Industrial (not classified)	Y
06a - Lubricants: Industrial (not classified)	Y
07a - Metal working fluids / rolling oils: Industrial (not classified)	Y
10a - Use as binders and release agents: Industrial (classified as H351)	Y
10a - Use as binders and release agents: Industrial (not classified)	Y
12a - Use in fuel: Industrial (not classified)	Y
19 - Rubber production and processing: Industrial (classified as H351)	Y
19 - Rubber production and processing: Industrial (not classified)	Y
21a - Polymer processing: Industrial (not classified)	Y
03b - Uses in Coatings: Professional (not classified)	Y
06c - Lubricants: Professional (high environmental release) (not classified)	Y
10b - Use as binders and release agents: Professional (not classified)	Y
11a - Use in Agrochemicals: Professional (not classified)	Y

Name	265-110-5
13b - Functional Fluids: Professional (not classified)	Y
15 - Road and construction applications: Professional (not classified)	Y
21b - Polymer processing: Professional (not classified)	Y
03c - Uses in Coatings: Consumer (not classified)	Y
06d - Lubricants: Consumer (low environmental release) (not classified)	Y
06e - Lubricants: Consumer (high environmental release) (not classified)	Y
A15SLb - Use in Road and construction applications: Service life (Professional) (not classified)	Y

### 3.14 Slack Waxes (Slackwax)

#### a. List of Uses and Use Descriptors for Slackwax substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (non-carcinogenic feed-stock)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
F-4	Y	F	02 - Formulation & (re)packing of substances and mixtures (non-carcinogenic feed-stock)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
IW-2	Y	IS	01b - Use of substance as intermediate (non-carcinogenic feed-stock)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-5	Y	IS	03a - Uses in Coatings: Industrial (non-carcinogenic feed-stock)	barrier (sealant), binder, corrosion inhibitor, dust suppressant, impregnation agent, plating agent, surface modifier, waterproofing agent		PC: 1, 9a	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 14, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-8	Y	IS	10a - Use as binders and release agents: Industrial (non-carcinogenic feed-stock)	antiadhesive, anticaking agent, binder, dust suppressant		PC: 24, 14, 15, 9a, 9b, 9c, 20	1, 2, 3, 4, 6, 7, 8a, 8b, 10, 13, 14, 28	4	ESVOC SpERC 4.10a.v1
IW-12	Y	IS	19 - Rubber production and processing: Industrial (non-carcinogenic feed-stock)	plasticiser, processing aid	11	PC: 20, 32	1, 2, 3, 4, 5, 6, 7, 8a, 8b, 9, 13, 14, 15, 28	4	ESVOC SpERC 4.19a.v3
IW-13	Y	IS	21a - Polymer processing: Industrial (non-carcinogenic feed-stock)	plasticiser, processing aid	10	PC: 32, 39	1, 2, 3, 4, 5, 6, 8a, 8b, 9, 13, 14, 28	4	ESVOC SpERC 4.21a.v1
IW-14	Y	IS	12a - Use in fuel: Industrial (non-carcinogenic feed-stock)	binder, fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
IW-17	Y	IS	06a - Lubricants: Industrial (non-carcinogenic feed-stock)	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 7, 8a, 8b, 9, 10, 13, 17, 18, 28	4, 7	ESVOC SpERC 4.6a.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
IW-22	Y	IS	13a - Functional Fluids: Industrial (non-carcinogenic feed-stock)	heat transferring agent, impregnation agent, insulators, lubricating agent		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 4, 8a, 8b, 9, 28	7	ESVOC SpERC 7.13a.v1
PW-6	Y	PW	03b - Uses in Coatings: Professional (non-carcinogenic feed-stock)	barrier (sealant), binder, corrosion inhibitor, dust suppressant, plating agent, surface modifier, waterproofing agent		PC: 1, 9a	1, 2, 3, 4, 5, 8a, 8b, 10, 11, 13, 15, 19, 28	8a, 8d	ESVOC SpERC 8.3b.v1
PW-9	Y	PW	11a - Use in Agrochemicals: Professional (non-carcinogenic feed-stock)	barrier (sealant)		PC: 8, 12, 27	1, 2, 4, 8a, 8b, 11, 13, 28	8a, 8d	ESVOC SpERC 8.11a.v1
PW-11	Y	PW	15 - Road and construction applications: Professional (non-carcinogenic feed-stock)	barrier (sealant), binder, impregnation agent, waterproofing agent		PC: 1, 9b, 0=Road and Construction	1, 2, 8a, 8b, 9, 10, 11, 13, 28	8d	ESVOC SPERC 8.15.v2
PW-15	Y	PW	12b - Use in fuel: Professional (non-carcinogenic feed-stock)	binder, fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
PW-18	Y	PW	06b - Lubricants: Professional (low environmental release) (non-carcinogenic feed-stock)	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20, 28	9a, 9b	ESVOC SpERC 9.6b.v1
PW-19	Y	PW	06c - Lubricants: Professional (high environmental release) (non-carcinogenic feed-stock)	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20, 28	8a, 8d	ESVOC SpERC 8.6c.v1
PW-23	Y	PW	13b - Functional Fluids: Professional (non-carcinogenic feed-stock)	heat transferring agent, impregnation agent, insulators, lubricating agent		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 3, 8a, 9, 20, 28	9a, 9b	ESVOC SpERC 9.13b.v1
C-7	Y	C	03c - Uses in Coatings: Consumer (non-carcinogenic feed-stock)	barrier (sealant), plating agent, processing aid, surface modifier, waterproofing agent		PC: 1, 9a, 9b, 9c,		8a, 8d	ESVOC SpERC 8.3c.v1

Slack Waxes (Slackwax) - a. List of Uses and Use Descriptors for Slackwax substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
						15, 18, 23, 24			
C-10	Y	C	11b - Use in Agrochemicals: Consumer (non-carcinogenic feed-stock)	barrier (sealant)		PC: 12, 27		8a, 8d	ESVOC SpERC 8.11b.v1
C-16	Y	C	12c - Use in fuel: Consumer (non-carcinogenic feed-stock)	fuel		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1
C-20	Y	C	06d - Lubricants: Consumer (low environmental release) (non-carcinogenic feed-stock)	heat transferring agent, lubricating agent		PC: 24		9a, 9b	ESVOC SpERC 9.6d.v1
C-21	Y	C	06e - Lubricants: Consumer (high environmental release) (non-carcinogenic feed-stock)	heat transferring agent, lubricating agent		PC: 24		8a, 8d	ESVOC SpERC 8.6e.v1
C-24	Y	C	16 - Uses in cosmetics/personal care products, perfumes and fragrances (non-carcinogenic feed-stock)	humectant, stabilising agent, thickener / thickening agent, vehicle (carrier)		PC: 28, 39		8a, 8d	ESVOC SpERC 8.16.v1
SL-25	Y	SL	A15SLb - Use in Road and construction applications: Service life (Professional) (non-carcinogenic feed-stock)	barrier (sealant), binder, impregnation agent, waterproofing agent			21	10a	ESVOC SPERC 8.15.v2

**b. List of Uses of each Slackwax substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	265-165-5	292-660-3	295-523-6
01 - Manufacture of substance (non-carcinogenic feed-stock)	Y	Y	Y
02 - Formulation & (re)packing of substances and mixtures (non-carcinogenic feed-stock)	Y	Y	Y
01b - Use of substance as intermediate (non-carcinogenic feed-stock)	Y		Y
03a - Uses in Coatings: Industrial (non-carcinogenic feed-stock)	Y		Y
06a - Lubricants: Industrial (non-carcinogenic feed-stock)	Y		
10a - Use as binders and release agents: Industrial (non-carcinogenic feed-stock)	Y		Y
12a - Use in fuel: Industrial (non-carcinogenic feed-stock)	Y		Y
13a - Functional Fluids: Industrial (non-carcinogenic feed-stock)	Y		Y
19 - Rubber production and processing: Industrial (non-carcinogenic feed-stock)	Y	Y	Y
21a - Polymer processing: Industrial (non-carcinogenic feed-stock)	Y		Y
03b - Uses in Coatings: Professional (non-carcinogenic feed-stock)	Y		Y
06b - Lubricants: Professional (low environmental release) (non-carcinogenic feed-stock)	Y		Y
06c - Lubricants: Professional (high environmental release) (non-carcinogenic feed-stock)	Y		Y
11a - Use in Agrochemicals: Professional (non-carcinogenic feed-stock)	Y		Y
12b - Use in fuel: Professional (non-carcinogenic feed-stock)	Y	Y	Y
13b - Functional Fluids: Professional (non-carcinogenic feed-stock)	Y		Y
15 - Road and construction applications: Professional (non-carcinogenic feed-stock)	Y		Y
03c - Uses in Coatings: Consumer (non-carcinogenic feed-stock)	Y	Y	Y
06d - Lubricants: Consumer (low environmental release) (non-carcinogenic feed-stock)	Y		Y

Name	265-165-5	292-660-3	295-523-6
06e - Lubricants: Consumer (high environmental release) (non-carcinogenic feed-stock)	Y		Y
11b - Use in Agrochemicals: Consumer (non-carcinogenic feed-stock)	Y		Y
12c - Use in fuel: Consumer (non-carcinogenic feed-stock)	Y	Y	Y
16 - Uses in cosmetics/personal care products, perfumes and fragrances (non-carcinogenic feed-stock)	Y		Y
A15SLb - Use in Road and construction applications: Service life (Professional) (non-carcinogenic feed-stock)	Y		Y

### 3.15 Paraffin and Hydrocarbon Waxes (Paraffinwax)

#### a. List of Uses and Use Descriptors for Paraffinwax substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (not classified)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
F-4	Y	F	02 - Formulation & (re)packing of substances and mixtures (not classified)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
IW-2	Y	IS	01b - Use of substance as intermediate (not classified)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-5	Y	IS	03a - Uses in Coatings: Industrial (not classified)	barrier (sealant), binder, brightener, corrosion inhibitor, dispersing agent, dust suppressant, finishing agents, heat transferring agent, lubricating agent, plating agent, pressure transfer agent, processing aid, surface modifier, vehicle (carrier), viscosity modifier, waterproofing agent		PC: 1, 9a	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 14, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-8	Y	IS	10a - Use as binders and release agents: Industrial (not classified)	antiadhesive, anticaking agent, binder, crystal growth modifiers (nucleating agents), dust suppressant, surface modifier, viscosity modifier		PC: 24, 14, 15, 9a, 9b, 9c, 20	1, 2, 3, 4, 6, 7, 8a, 8b, 10, 13, 14, 28	4	ESVOC SpERC 4.10a.v1
IW-13	Y	IS	19 - Rubber production and processing: Industrial (not classified)	plasticiser, processing aid, surface modifier, UV stabiliser, 0=antiozonant	11	PC: 20, 32	1, 2, 3, 4, 5, 6, 7, 8a, 8b, 9, 13, 14, 15, 28	4	ESVOC SpERC 4.19a.v3
IW-14	Y	IS	21a - Polymer processing: Industrial (not classified)	lubricating agent, plasticiser, processing aid, viscosity modifier	10	PC: 32, 39	1, 2, 3, 4, 5, 6, 8a, 8b, 9, 13, 14, 28	4	ESVOC SpERC 4.21a.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
IW-18	Y	IS	06a - Lubricants: Industrial (not classified)	gelling modifier, lubricating agent, processing aid, viscosity modifier		PC: 24	1, 2, 3, 4, 7, 8a, 8b, 9, 10, 13, 17, 18, 28	4, 7	ESVOC SpERC 4.6a.v1
IW-23	Y	IS	17a - Use in laboratories: Industrial (not classified)	no technical function		PC: 21	15	4	ERC DEFINED RELEASE FRACTIONS
IW-26	Y	IS	13a - Functional Fluids: Industrial (not classified)	barrier (sealant), heat transferring agent, impregnation agent, insulators, lubricating agent, waterproofing agent		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 4, 8a, 8b, 9, 28	7	ESVOC SpERC 7.13a.v1
IW-31	Y	IS	A03a - Uses in Coatings: Industrial (not classified)	barrier (sealant), binder, brightener, corrosion inhibitor, dispersing agent, dust suppressant, finishing agents, heat transferring agent, lubricating agent, plating agent, pressure transfer agent, processing aid, surface modifier, vehicle (carrier), viscosity modifier, waterproofing agent		PC: 1, 9a	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 14, 15, 28	5	ESVOC SpERC 4.3a.v1
PW-6	Y	PW	03b - Uses in Coatings: Professional (not classified)	barrier (sealant), binder, brightener, corrosion inhibitor, dispersing agent, dust suppressant, finishing agents, heat transferring agent, lubricating agent, plating agent, pressure transfer agent, processing aid, surface modifier, vehicle (carrier), viscosity modifier, waterproofing agent		PC: 1, 9a	1, 2, 3, 4, 5, 8a, 8b, 10, 11, 13, 15, 19, 28	8a, 8d	ESVOC SpERC 8.3b.v1
PW-9	Y	PW	10b - Use as binders and release agents: Professional (not classified)	antiadhesive, anticaking agent, binder, crystal growth modifiers (nucleating agents), dust suppressant, surface modifier, viscosity modifier		PC: 24, 14, 15, 9a, 9b, 9c, 20	1, 2, 3, 4, 5, 6, 8a, 8b, 10, 11, 14	8a, 8d	ESVOC SpERC 8.10b.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
PW-10	Y	PW	11a - Use in Agrochemicals: Professional (not classified)	barrier (sealant), fertilisers (soil amendments), fixing agent (mordant), waterproofing agent		PC: 8, 12, 27	1, 2, 4, 8a, 8b, 11, 13, 28	8a, 8d	ESVOC SpERC 8.11a.v1
PW-12	Y	PW	15 - Road and construction applications: Professional (not classified)	barrier (sealant), binder, impregnation agent, surface modifier, waterproofing agent		PC: 1, 9b, 0=Road and Construction	1, 2, 8a, 8b, 9, 10, 11, 13, 28	8d	ESVOC SPERC 8.15.v2
PW-15	Y	PW	21b - Polymer processing: Professional (not classified)	lubricating agent, plasticiser, processing aid, viscosity modifier		PC: 32, 39	1, 2, 6, 8a, 8b, 14, 28	8a, 8d	ESVOC SpERC 8.21b.v1
PW-16	Y	PW	12b - Use in fuel: Professional (not classified)	binder, fuel, impregnation agent		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
PW-19	Y	PW	06b - Lubricants: Professional (low environmental release) (not classified)	gelling modifier, heat transferring agent, lubricating agent, viscosity modifier		PC: 24	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20, 28	9a, 9b	ESVOC SpERC 9.6b.v1
PW-20	Y	PW	06c - Lubricants: Professional (high environmental release) (not classified)	gelling modifier, heat transferring agent, lubricating agent, viscosity modifier		PC: 24	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20, 28	8a, 8d	ESVOC SpERC 8.6c.v1
PW-24	Y	PW	17b - Use in laboratories: Professional (not classified)	no technical function		PC: 21	15	8a	ESVOC SpERC 8.17.v1
PW-25	Y	PW	18b - Explosives manufacture & use: Professional (not classified)	vehicle (carrier), waterproofing agent		PC: 11	1, 2, 3, 5, 8a, 8b, 28	8e	ERC DEFINED RELEASE FRACTIONS
PW-27	Y	PW	13b - Functional Fluids: Professional (not classified)	barrier (sealant), heat transferring agent, impregnation agent, insulators, lubricating agent, waterproofing agent		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 3, 8a, 9, 20, 28	9a, 9b	ESVOC SpERC 9.13b.v1
C-7	Y	C	03c - Uses in Coatings: Consumer (not classified)	barrier (sealant), binder, brightener, dispersing agent, dust suppressant, finishing agents, heat transferring agent,		PC: 1, 9a, 9b, 9c, 15, 18, 23, 24		8a, 8d	ESVOC SpERC 8.3c.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
				lubricating agent, plating agent, pressure transfer agent, surface modifier, vehicle (carrier), viscosity modifier, waterproofing agent					
C-11	Y	C	11b - Use in Agrochemicals: Consumer (not classified)	barrier (sealant), fertilisers (soil amendments), fixing agent (mordant), waterproofing agent		PC: 12, 27		8a, 8d	ESVOC SpERC 8.11b.v1
C-17	Y	C	12c - Use in fuel: Consumer (not classified)	fuel, impregnation agent		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1
C-21	Y	C	06d - Lubricants: Consumer (low environmental release) (not classified)	gelling modifier, heat transferring agent, lubricating agent, viscosity modifier		PC: 24		9a, 9b	ESVOC SpERC 9.6d.v1
C-22	Y	C	06e - Lubricants: Consumer (high environmental release) (not classified)	gelling modifier, heat transferring agent, lubricating agent, viscosity modifier		PC: 24		8a, 8d	ESVOC SpERC 8.6e.v1
C-28	Y	C	13c - Functional Fluids: Consumer (not classified)	barrier (sealant), heat transferring agent, impregnation agent, insulators, lubricating agent, waterproofing agent		PC: 16, 17		9a, 9b	ESVOC SpERC 9.13c.v1
C-29	Y	C	16 - Uses in cosmetics/personal care products, perfumes and fragrances (not classified)	humectant, stabilising agent, thickener / thickening agent, vehicle (carrier)		PC: 28, 39		8a, 8d	ESVOC SpERC 8.16.v1
SL-30	Y	SL	A15SLb - Use in Road and construction applications: Service life (Professional) (not classified)	barrier (sealant), binder, impregnation agent, surface modifier, waterproofing agent			21	10a	ESVOC SPERC 8.15.v2
SL-32	Y	SL	A03aSL - Uses in Coatings: Service life (Industrial) (not classified)	barrier (sealant), binder, brightener, corrosion inhibitor, dispersing agent, dust suppressant, finishing agents, heat transferring agent, lubricating agent, plating agent, pressure transfer agent, processing aid, surface modifier,			21	10a, 11a	

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
				vehicle (carrier), viscosity modifier, waterproofing agent					

**b. List of Uses of each Paraffinwax substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	232-315-6	264-038-1	265-144-0	265-145-6	265-154-5	265-163-4
01 - Manufacture of substance (not classified)	Y	Y	Y	Y	Y	Y
02 - Formulation & (re)packing of substances and mixtures (not classified)	Y	Y	Y	Y	Y	Y
01b - Use of substance as intermediate (not classified)	Y	Y	Y	Y	Y	Y
03a - Uses in Coatings: Industrial (not classified)	Y	Y	Y	Y	Y	Y
06a - Lubricants: Industrial (not classified)	Y	Y	Y	Y	Y	Y
10a - Use as binders and release agents: Industrial (not classified)	Y	Y	Y	Y	Y	Y
13a - Functional Fluids: Industrial (not classified)	Y	Y		Y	Y	Y
17a - Use in laboratories: Industrial (not classified)	Y	Y		Y	Y	Y
19 - Rubber production and processing: Industrial (not classified)	Y	Y		Y	Y	Y
21a - Polymer processing: Industrial (not classified)	Y	Y	Y	Y	Y	Y
A03a - Uses in Coatings: Industrial (not classified)	Y	Y				
03b - Uses in Coatings: Professional (not classified)	Y	Y	Y	Y	Y	Y
06b - Lubricants: Professional (low environmental release) (not classified)	Y		Y		Y	Y
06c - Lubricants: Professional (high environmental release) (not classified)	Y		Y		Y	Y
10b - Use as binders and release agents: Professional (not classified)	Y		Y	Y	Y	
11a - Use in Agrochemicals: Professional (not classified)	Y	Y		Y	Y	Y
12b - Use in fuel: Professional (not classified)	Y			Y	Y	Y
13b - Functional Fluids: Professional (not classified)				Y	Y	Y
15 - Road and construction applications: Professional (not classified)	Y		Y	Y	Y	Y
17b - Use in laboratories: Professional (not classified)	Y		Y	Y	Y	Y

Paraffin and Hydrocarbon Waxes (Paraffinwax) - b. List of Uses of each Paraffinwax substance as detailed in the respective Chemical Safety Report, listed by EC number

Name	232-315-6	264-038-1	265-144-0	265-145-6	265-154-5	265-163-4
18b - Explosives manufacture & use: Professional (not classified)	Y	Y	Y	Y	Y	Y
21b - Polymer processing: Professional (not classified)					Y	Y
03c - Uses in Coatings: Consumer (not classified)	Y	Y	Y		Y	Y
06d - Lubricants: Consumer (low environmental release) (not classified)	Y		Y		Y	Y
06e - Lubricants: Consumer (high environmental release) (not classified)	Y		Y			Y
11b - Use in Agrochemicals: Consumer (not classified)	Y	Y			Y	Y
12c - Use in fuel: Consumer (not classified)	Y		Y	Y	Y	Y
13c - Functional Fluids: Consumer (not classified)	Y			Y	Y	Y
16 - Uses in cosmetics/personal care products, perfumes and fragrances (not classified)	Y	Y	Y	Y	Y	Y
A03aSL - Uses in Coatings: Service life (Industrial) (not classified)	Y	Y				
A15SLb - Use in Road and construction applications: Service life (Professional) (not classified)	Y		Y	Y	Y	Y

Paraffin and Hydrocarbon Waxes (Paraffinwax) - b. List of Uses of each Paraffinwax substance as detailed in the respective Chemical Safety Report, listed by EC number

### 3.16 Foots Oils (Footsoil)

#### a. List of Uses and Use Descriptors for Footsoil substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (not classified; IP 346 < 3%; viscosity > 20.5 cSt @ 40 °C)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
M-2	Y	M	01 - Manufacture of substance (classified as H304 only; IP 346 < 3%; viscosity ≤ 20.5 cSt @ 40 °C)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
F-7	Y	F	02 - Formulation & (re)packing of substances and mixtures (not classified; IP 346 < 3%; viscosity > 20.5 cSt @ 40 °C)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
F-8	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified as H304 only; IP 346 < 3%; viscosity ≤ 20.5 cSt @ 40 °C)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
IW-3	Y	IS	01b - Use of substance as intermediate (not classified; IP 346 < 3%; viscosity > 20.5 cSt @ 40 °C)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-4	Y	IS	01b - Use of substance as intermediate (classified as H304 only; IP 346 < 3%; viscosity ≤ 20.5 cSt @ 40 °C)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-9	Y	IS	03a - Uses in Coatings: Industrial (not classified; IP 346 < 3%; viscosity > 20.5 cSt @ 40 °C)	dust suppressant, vehicle (carrier)		PC: 1, 9a	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 14, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-10	Y	IS	03a - Uses in Coatings: Industrial (classified as H304 only; IP 346 < 3%; viscosity ≤ 20.5 cSt @ 40 °C)	dust suppressant, processing aid, vehicle (carrier)		PC: 1, 9a	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 14, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-27	Y	IS	13a - Functional Fluids: Industrial (not classified; IP 346 < 3%; viscosity > 20.5 cSt @ 40 °C)	heat transferring agent, hydraulic (functional) fluids, insulators, lubricating agent		PC: 16, 42, 33, 30, 17, 4,	1, 2, 4, 8a, 8b, 9, 28	7	ESVOC SpERC 7.13a.v1

Foots Oils (Footsoil) - a. List of Uses and Use Descriptors for Footsoil substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
						0=Insulator			
PW-11	Y	PW	03b - Uses in Coatings: Professional (not classified; IP 346 < 3%; viscosity > 20.5 cSt @ 40 °C)	vehicle (carrier)		PC: 1, 9a	1, 2, 3, 4, 5, 8a, 8b, 10, 11, 13, 15, 19, 28	8a, 8d	ESVOC SpERC 8.3b.v1
PW-15	Y	PW	11a - Use in Agrochemicals: Professional (not classified; IP 346 < 3%; viscosity > 20.5 cSt @ 40 °C)	dust suppressant, vehicle (carrier)		PC: 8, 12, 27	1, 2, 4, 8a, 8b, 11, 13, 28	8a, 8d	ESVOC SpERC 8.11a.v1
PW-29	Y	PW	13b - Functional Fluids: Professional (not classified; IP 346 < 3%; viscosity > 20.5 cSt @ 40 °C)	heat transferring agent, hydraulic (functional) fluids, insulators, lubricating agent		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 3, 8a, 9, 20, 28	9a, 9b	ESVOC SpERC 9.13b.v1

**b. List of Uses of each Footsoil substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	265-171-8	295-394-6
01 - Manufacture of substance (classified as H304 only; IP 346 < 3%; viscosity ≤ 20.5 cSt @ 40 °C)	Y	
01 - Manufacture of substance (not classified; IP 346 < 3%; viscosity > 20.5 cSt @ 40 °C)	Y	Y
02 - Formulation & (re)packing of substances and mixtures (classified as H304 only; IP 346 < 3%; viscosity ≤ 20.5 cSt @ 40 °C)	Y	
02 - Formulation & (re)packing of substances and mixtures (not classified; IP 346 < 3%; viscosity > 20.5 cSt @ 40 °C)	Y	Y
01b - Use of substance as intermediate (classified as H304 only; IP 346 < 3%; viscosity ≤ 20.5 cSt @ 40 °C)	Y	
01b - Use of substance as intermediate (not classified; IP 346 < 3%; viscosity > 20.5 cSt @ 40 °C)	Y	
03a - Uses in Coatings: Industrial (classified as H304 only; IP 346 < 3%; viscosity ≤ 20.5 cSt @ 40 °C)	Y	
03a - Uses in Coatings: Industrial (not classified; IP 346 < 3%; viscosity > 20.5 cSt @ 40 °C)	Y	
13a - Functional Fluids: Industrial (not classified; IP 346 < 3%; viscosity > 20.5 cSt @ 40 °C)	Y	
03b - Uses in Coatings: Professional (not classified; IP 346 < 3%; viscosity > 20.5 cSt @ 40 °C)	Y	Y
11a - Use in Agrochemicals: Professional (not classified; IP 346 < 3%; viscosity > 20.5 cSt @ 40 °C)	Y	
13b - Functional Fluids: Professional (not classified; IP 346 < 3%; viscosity > 20.5 cSt @ 40 °C)	Y	

### 3.17 Petrolatums (Petrolatum)

#### a. List of Uses and Use Descriptors for Petrolatum substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (non-carcinogenic feed-stock)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
F-4	Y	F	02 - Formulation & (re)packing of substances and mixtures (non-carcinogenic feed-stock)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
IW-2	Y	IS	01b - Use of substance as intermediate (non-carcinogenic feed-stock)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-5	Y	IS	03a - Uses in Coatings: Industrial (non-carcinogenic feed-stock)	barrier (sealant), corrosion inhibitor, processing aid, vehicle (carrier)		PC: 1, 9a	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 14, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-8	Y	IS	10a - Use as binders and release agents: Industrial (non-carcinogenic feed-stock)	antiadhesive, binder		PC: 24, 14, 15, 9a, 9b, 9c, 20	1, 2, 3, 4, 6, 7, 8a, 8b, 10, 13, 14, 28	4	ESVOC SpERC 4.10a.v1
IW-12	Y	IS	19 - Rubber production and processing: Industrial (non-carcinogenic feed-stock)	plasticiser, processing aid	11	PC: 20, 32	1, 2, 3, 4, 5, 6, 7, 8a, 8b, 9, 13, 14, 15, 28	4	ESVOC SpERC 4.19a.v3
IW-13	Y	IS	12a - Use in fuel: Industrial (non-carcinogenic feed-stock)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
IW-16	Y	IS	06a - Lubricants: Industrial (non-carcinogenic feed-stock)	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 7, 8a, 8b, 9, 10, 13, 17, 18, 28	4, 7	ESVOC SpERC 4.6a.v1
IW-21	Y	IS	17a - Use in laboratories: Industrial (non-carcinogenic feed-stock)	no technical function		PC: 21	15	4	ERC DEFINED RELEASE FRACTIONS
IW-23	Y	IS	13a - Functional Fluids: Industrial (non-carcinogenic feed-stock)	barrier (sealant), heat transferring agent, hydraulic		PC: 16, 42, 33, 30, 17, 4,	1, 2, 4, 8a, 8b, 9, 28	7	ESVOC SpERC 7.13a.v1

Petrolatums (Petrolatum) - a. List of Uses and Use Descriptors for Petrolatum substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
				(functional) fluids, insulators, waterproofing agent		0=Insulator			
PW-6	Y	PW	03b - Uses in Coatings: Professional (non-carcinogenic feed-stock)	barrier (sealant), corrosion inhibitor, processing aid, vehicle (carrier)		PC: 1, 9a	1, 2, 3, 4, 5, 8a, 8b, 10, 11, 13, 15, 19, 28	8a, 8d	ESVOC SpERC 8.3b.v1
PW-9	Y	PW	10b - Use as binders and release agents: Professional (non-carcinogenic feed-stock)	antiadhesive, binder		PC: 24, 14, 15, 9a, 9b, 9c, 20	1, 2, 3, 4, 5, 6, 8a, 8b, 10, 11, 14	8a, 8d	ESVOC SpERC 8.10b.v1
PW-10	Y	PW	11a - Use in Agrochemicals: Professional (non-carcinogenic feed-stock)	barrier (sealant)		PC: 8, 12, 27	1, 2, 4, 8a, 8b, 11, 13, 28	8a, 8d	ESVOC SpERC 8.11a.v1
PW-14	Y	PW	12b - Use in fuel: Professional (non-carcinogenic feed-stock)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
PW-17	Y	PW	06b - Lubricants: Professional (low environmental release) (non-carcinogenic feed-stock)	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20, 28	9a, 9b	ESVOC SpERC 9.6b.v1
PW-18	Y	PW	06c - Lubricants: Professional (high environmental release) (non-carcinogenic feed-stock)	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20, 28	8a, 8d	ESVOC SpERC 8.6c.v1
PW-22	Y	PW	17b - Use in laboratories: Professional (non-carcinogenic feed-stock)	no technical function		PC: 21	15	8a	ESVOC SpERC 8.17.v1
PW-24	Y	PW	13b - Functional Fluids: Professional (non-carcinogenic feed-stock)	barrier (sealant), heat transferring agent, hydraulic (functional) fluids, insulators, waterproofing agent		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 3, 8a, 9, 20, 28	9a, 9b	ESVOC SpERC 9.13b.v1
C-7	Y	C	03c - Uses in Coatings: Consumer (non-carcinogenic feed-stock)	barrier (sealant), corrosion inhibitor, processing aid, vehicle (carrier)		PC: 1, 9a, 9b, 9c, 15, 18, 23, 24		8a, 8d	ESVOC SpERC 8.3c.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
C-11	Y	C	11b - Use in Agrochemicals: Consumer (non-carcinogenic feed-stock)	barrier (sealant)		PC: 12, 27		8a, 8d	ESVOC SpERC 8.11b.v1
C-15	Y	C	12c - Use in fuel: Consumer (non-carcinogenic feed-stock)	fuel		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1
C-19	Y	C	06d - Lubricants: Consumer (low environmental release) (non-carcinogenic feed-stock)	heat transferring agent, lubricating agent		PC: 24		9a, 9b	ESVOC SpERC 9.6d.v1
C-20	Y	C	06e - Lubricants: Consumer (high environmental release) (non-carcinogenic feed-stock)	heat transferring agent, lubricating agent		PC: 24		8a, 8d	ESVOC SpERC 8.6e.v1
C-25	Y	C	16 - Uses in cosmetics/personal care products, perfumes and fragrances (non-carcinogenic feed-stock)	humectant, stabilising agent, thickener / thickening agent, vehicle (carrier)		PC: 28, 39		8a, 8d	ESVOC SpERC 8.16.v1

**b. List of Uses of each Petrolatum substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	232-373-2
01 - Manufacture of substance (non-carcinogenic feed-stock)	Y
02 - Formulation & (re)packing of substances and mixtures (non-carcinogenic feed-stock)	Y
01b - Use of substance as intermediate (non-carcinogenic feed-stock)	Y
03a - Uses in Coatings: Industrial (non-carcinogenic feed-stock)	Y
06a - Lubricants: Industrial (non-carcinogenic feed-stock)	Y
10a - Use as binders and release agents: Industrial (non-carcinogenic feed-stock)	Y
12a - Use in fuel: Industrial (non-carcinogenic feed-stock)	Y
13a - Functional Fluids: Industrial (non-carcinogenic feed-stock)	Y
17a - Use in laboratories: Industrial (non-carcinogenic feed-stock)	Y
19 - Rubber production and processing: Industrial (non-carcinogenic feed-stock)	Y
03b - Uses in Coatings: Professional (non-carcinogenic feed-stock)	Y
06b - Lubricants: Professional (low environmental release) (non-carcinogenic feed-stock)	Y
06c - Lubricants: Professional (high environmental release) (non-carcinogenic feed-stock)	Y
10b - Use as binders and release agents: Professional (non-carcinogenic feed-stock)	Y
11a - Use in Agrochemicals: Professional (non-carcinogenic feed-stock)	Y
12b - Use in fuel: Professional (non-carcinogenic feed-stock)	Y
13b - Functional Fluids: Professional (non-carcinogenic feed-stock)	Y
17b - Use in laboratories: Professional (non-carcinogenic feed-stock)	Y
03c - Uses in Coatings: Consumer (non-carcinogenic feed-stock)	Y

Name	232-373-2
06d - Lubricants: Consumer (low environmental release) (non-carcinogenic feed-stock)	Y
06e - Lubricants: Consumer (high environmental release) (non-carcinogenic feed-stock)	Y
11b - Use in Agrochemicals: Consumer (non-carcinogenic feed-stock)	Y
12c - Use in fuel: Consumer (non-carcinogenic feed-stock)	Y
16 - Uses in cosmetics/personal care products, perfumes and fragrances (non-carcinogenic feed-stock)	Y

### 3.18 Bitumen (Bitumen)

#### a. List of Uses and Use Descriptors for Bitumen substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (not classified)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
F-4	Y	F	02 - Formulation & (re)packing of substances and mixtures (not classified)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
IW-2	Y	IS	01b - Use of substance as intermediate (not classified)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-5	Y	IS	03a - Uses in Coatings: Industrial (not classified)	adhesion promotor, barrier (sealant), binder, corrosion inhibitor, dust suppressant, waterproofing agent		PC: 1, 9a	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 14, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-11	Y	IS	19 - Rubber production and processing: Industrial (not classified)	adhesion promotor, binder, compatibilizer, hardener, plasticiser, processing aid, softener, tackifier, thickener / thickening agent	11	PC: 20, 32	1, 2, 3, 4, 5, 6, 7, 8a, 8b, 9, 13, 14, 15, 28	4	ESVOC SpERC 4.19a.v3
IW-12	Y	IS	12a - Use in fuel: Industrial (not classified)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
IW-13	Y	IS	06a - Lubricants: Industrial (not classified)	lubricating agent		PC: 24	1, 2, 3, 4, 7, 8a, 8b, 9, 10, 13, 17, 18, 28	4, 7	ESVOC SpERC 4.6a.v1
IW-18	Y	IS	05aON - Use in Oil and Gas field drilling and production operations: Industrial onshore (not classified)	barrier (sealant), vehicle (carrier)		PC: 41	1, 2, 3, 4, 8a, 8b, 9, 28	4	QUALITATIVE ASSESSMENT FOR ENVIRONMENT
IW-19	Y	IS	05aOFF - Use in Oil and Gas field drilling and production	barrier (sealant), vehicle (carrier)		PC: 41	1, 2, 3, 4, 8a, 8b, 9, 28	4	QUALITATIVE ASSESSMENT

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
			operations: Industrial offshore (not classified)						FOR ENVIRONMENT
PW-6	Y	PW	03b - Uses in Coatings: Professional (not classified)	adhesion promotor, barrier (sealant), binder, corrosion inhibitor, waterproofing agent		PC: 1, 9a	1, 2, 3, 4, 5, 8a, 8b, 10, 11, 13, 15, 19, 28	8a, 8d	ESVOC SpERC 8.3b.v1
PW-10	Y	PW	15 - Road and construction applications: Professional (not classified)	barrier (sealant), binder, insulators, waterproofing agent		PC: 1, 9b, 0=Road and Construction	1, 2, 8a, 8b, 9, 10, 11, 13, 28	8d	ESVOC SPERC 8.15.v2
PW-14	Y	PW	06b - Lubricants: Professional (low environmental release) (not classified)	lubricating agent		PC: 24	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20, 28	9a, 9b	ESVOC SpERC 9.6b.v1
PW-15	Y	PW	06c - Lubricants: Professional (high environmental release) (not classified)	lubricating agent		PC: 24	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20, 28	8a, 8d	ESVOC SpERC 8.6c.v1
PW-16	Y	PW	11a - Use in Agrochemicals: Professional (not classified)	anticaking agent, dust suppressant		PC: 8, 12, 27	1, 2, 4, 8a, 8b, 11, 28	8a, 8d	ESVOC SpERC 8.11a.v1
PW-20	Y	PW	05bON - Use in Oil and Gas field drilling and production operations: Professional onshore (not classified)	barrier (sealant), vehicle (carrier)		PC: 41	1, 2, 3, 4, 8a, 8b, 9, 28	8d	QUALITATIVE ASSESSMENT FOR ENVIRONMENT
PW-21	Y	PW	05bOFF - Use in Oil and Gas field drilling and production operations: Professional offshore (not classified)	barrier (sealant), vehicle (carrier)		PC: 41	1, 2, 3, 4, 8a, 8b, 9, 28	8d	QUALITATIVE ASSESSMENT FOR ENVIRONMENT
C-7	Y	C	03c - Uses in Coatings: Consumer (not classified)	adhesion promotor, barrier (sealant), binder, corrosion inhibitor, waterproofing agent		PC: 1, 9a, 9b, 9c, 15, 18, 23, 24		8a, 8d	ESVOC SpERC 8.3c.v1
C-22	Y	C	15c - Road and construction applications: Consumer (not classified)	barrier (sealant), binder, insulators, waterproofing agent		PC: 1, 9b, 0=Road		8d, 8f	ESVOC SPERC 8.15.v2

Bitumen (Bitumen) a. List of Uses and Use Descriptors for Bitumen substances

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
						and Construction			
SL-17	Y	SL	A15SLb - Use in Road and construction applications: Service life (Professional) (not classified)	barrier (sealant), binder, insulators, waterproofing agent			21	10a	ESVOC SPERC 8.15.v2
SL-23	Y	SL	A15SLc - Use in Road and construction applications: Service life (Consumer) (not classified)				21	10a	ESVOC SPERC 8.15.v2

**b. List of Uses of each Bitumen substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	232-490-9	265-057-8	295-518-9
01 - Manufacture of substance (not classified)	Y	Y	Y
02 - Formulation & (re)packing of substances and mixtures (not classified)	Y	Y	Y
01b - Use of substance as intermediate (not classified)	Y	Y	Y
03a - Uses in Coatings: Industrial (not classified)	Y	Y	Y
05aOFF - Use in Oil and Gas field drilling and production operations: Industrial offshore (not classified)	Y	Y	
05aON - Use in Oil and Gas field drilling and production operations: Industrial onshore (not classified)	Y	Y	
06a - Lubricants: Industrial (not classified)	Y	Y	
12a - Use in fuel: Industrial (not classified)	Y	Y	Y
19 - Rubber production and processing: Industrial (not classified)	Y	Y	
03b - Uses in Coatings: Professional (not classified)	Y	Y	Y
05bOFF - Use in Oil and Gas field drilling and production operations: Professional offshore (not classified)	Y	Y	
05bON - Use in Oil and Gas field drilling and production operations: Professional onshore (not classified)	Y	Y	
06b - Lubricants: Professional (low environmental release) (not classified)	Y	Y	
06c - Lubricants: Professional (high environmental release) (not classified)	Y	Y	
11a - Use in Agrochemicals: Professional (not classified)	Y	Y	
15 - Road and construction applications: Professional (not classified)	Y	Y	Y
03c - Uses in Coatings: Consumer (not classified)	Y	Y	Y
15c - Road and construction applications: Consumer (not classified)	Y	Y	Y
A15SLb - Use in Road and construction applications: Service life (Professional) (not classified)	Y	Y	Y

Name	232-490-9	265-057-8	295-518-9
A15SLc - Use in Road and construction applications: Service life (Consumer) (not classified)	Y	Y	Y

### 3.19 Oxidized Asphalt (OxiAsph)

#### a. List of Uses and Use Descriptors for OxiAsph

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (not classified; air-rectified asphalt (PI≤2))				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
M-15	Y	M	01 - Manufacture of substance (not classified; severely oxidized asphalt (PI>2))				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
F-4	Y	F	02 - Formulation & (re)packing of substances and mixtures (not classified; air-rectified asphalt (PI≤2))	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
F-18	Y	F	02 - Formulation & (re)packing of substances and mixtures (not classified; severely oxidized asphalt (PI>2))	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
IW-2	Y	IS	01b - Use of substance as intermediate (not classified; air-rectified asphalt (PI≤2))	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-5	Y	IS	03a - Uses in Coatings: Industrial (not classified; air-rectified asphalt (PI≤2))	adhesion promotor, barrier (sealant), binder, corrosion inhibitor, dust suppressant		PC: 1, 9a	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 14, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-10	Y	IS	19 - Rubber production and processing: Industrial (not classified; air-rectified asphalt (PI≤2))	plasticiser, processing aid	11	PC: 20, 32	1, 2, 3, 4, 5, 6, 7, 8a, 8b, 9, 13, 14, 15, 28	4	ESVOC SpERC 4.19a.v3
IW-11	Y	IS	12a - Use in fuel: Industrial (not classified; air-rectified asphalt (PI≤2))	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
IW-12	Y	IS	06a - Lubricants: Industrial (not classified; air-rectified asphalt (PI≤2))	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 7, 8a, 8b, 9, 10, 13, 17, 18, 28	4, 7	ESVOC SpERC 4.6a.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
IW-16	Y	IS	01b - Use of substance as intermediate (not classified; severely oxidized asphalt (PI>2))	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-19	Y	IS	03a - Uses in Coatings: Industrial - cold applications only, no emissions (severely oxidized asphalt (PI>2))	adhesion promotor, barrier (sealant), binder, corrosion inhibitor, dust suppressant		PC: 1, 9a	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 14, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-23	Y	IS	12a - Use in fuel: Industrial (not classified; severely oxidized asphalt (PI>2))	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
IW-24	Y	IS	Use in Manufacture of Articles: Industrial (not classified; severely oxidized asphalt (PI>2))	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 10, 13, 14, 15, 28	4	
IW-25	Y	IS	19 - Rubber production and processing: Industrial (not classified; severely oxidized asphalt (PI>2))	plasticiser, processing aid	11	PC: 20, 32	1, 2, 3, 4, 5, 6, 7, 8a, 8b, 9, 13, 14, 15, 28	4	ESVOC SpERC 4.19a.v3
IW-29	Y	IS	05aON - Use in Oil and Gas field drilling and production operations: Industrial onshore (not classified; air-rectified asphalt (PI≤2))	barrier (sealant), vehicle (carrier)		PC: 41	1, 2, 3, 4, 8a, 8b, 9, 28	4	QUALITATIVE ASSESSMENT FOR ENVIRONMENT
IW-30	Y	IS	05aOFF - Use in Oil and Gas field drilling and production operations: Industrial offshore (not classified; air-rectified asphalt (PI≤2))	barrier (sealant), vehicle (carrier)		PC: 41	1, 2, 3, 4, 8a, 8b, 9, 28	4	QUALITATIVE ASSESSMENT FOR ENVIRONMENT
PW-6	Y	PW	03b - Uses in Coatings: Professional (not classified; air-rectified asphalt (PI≤2))	adhesion promotor, barrier (sealant), binder, corrosion inhibitor, dust suppressant		PC: 1, 9a	1, 2, 3, 4, 5, 8a, 8b, 10, 11, 13, 15, 19, 28	8a, 8d	ESVOC SpERC 8.3b.v1
PW-9	Y	PW	15 - Road and construction applications: Professional (not classified; air-rectified asphalt (PI≤2))	barrier (sealant), binder, insulators, waterproofing agent		PC: 1, 9b, 0=Road and Construction	1, 2, 8a, 8b, 9, 10, 11, 13, 28	8d	ESVOC SPERC 8.15.v2

Oxidized Asphalt (OxiAsph) - a. List of Uses and Use Descriptors for OxiAsph

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
PW-13	Y	PW	06b - Lubricants: Professional (low environmental release) (not classified; air-rectified asphalt (PI <sub>≤</sub> 2))	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20, 28	9a, 9b	ESVOC SpERC 9.6b.v1
PW-14	Y	PW	06c - Lubricants: Professional (high environmental release) (not classified; air-rectified asphalt (PI <sub>≤</sub> 2))	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20, 28	8a, 8d	ESVOC SpERC 8.6c.v1
PW-20	Y	PW	03b - Uses in Coatings: Professional - cold applications only, no emissions (not classified; severely oxidized asphalt (PI>2))	adhesion promotor, barrier (sealant), binder, corrosion inhibitor, dust suppressant, dye		PC: 1, 9a	1, 2, 3, 4, 5, 8a, 8b, 10, 11, 13, 15, 19, 28	8a, 8d	ESVOC SpERC 8.3b.v1
PW-22	Y	PW	Use in Construction Applications: Professional (not classified; severely oxidized asphalt (PI>2))	barrier (sealant), binder, waterproofing agent			1, 2, 5, 8a, 8b, 9, 10, 13	8d	ESVOC 8.15.v1
PW-26	Y	PW	11a - Use in Agrochemicals: Professional (not classified; severely oxidized asphalt (PI>2))	anticaking agent, dust suppressant		PC: 8, 12, 27	1, 2, 4, 8a, 8b, 11, 28	8a, 8d	ESVOC SpERC 8.11a.v1
C-7	Y	C	03c - Uses in Coatings: Consumer (not classified; air-rectified asphalt (PI <sub>≤</sub> 2))	adhesion promotor, barrier (sealant), binder, corrosion inhibitor		PC: 1, 9a, 9b, 9c, 15, 18, 23, 24		8a, 8d	ESVOC SpERC 8.3c.v1
C-21	Y	C	03c - Uses in Coatings: Consumer - cold applications only, no emissions (not classified; severely oxidized asphalt (PI>2))	adhesion promotor, barrier (sealant), binder, corrosion inhibitor		PC: 1, 9a, 9b, 9c, 15, 18, 23, 24		8a, 8d	ESVOC SpERC 8.3c.v1
C-31	Y	C	15c - Road and construction applications: Consumer (not classified; air-rectified asphalt (PI <sub>≤</sub> 2))	barrier (sealant), binder, insulators, waterproofing agent		PC: 1, 9b, 0=Road and Construction		8d	ESVOC SPERC 8.15.v2
C-32	Y	C	15c - Road and construction applications: Consumer (not classified; severely oxidized asphalt (PI>2))	barrier (sealant), binder, insulators, waterproofing agent		PC: 1, 9b, 0=Road and		8d	ESVOC SPERC 8.15.v2

Oxidized Asphalt (OxiAsph) - a. List of Uses and Use Descriptors for OxiAsph

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
						Construction			
SL-27	Y	SL	A15SLb - Use in Road and construction applications: Service life (Professional) (not classified; air-rectified asphalt (PI <sub>≤</sub> 2))	barrier (sealant), binder, waterproofing agent			21	10a	ESVOC SPERC 8.15.v2
SL-28	Y	SL	Use in Construction Applications: Service life (Professional) (not classified; severely oxidized asphalt (PI <sub>&gt;</sub> 2))	barrier (sealant), binder, waterproofing agent			21	10a	
SL-33	Y	SL	A15SLc - Use in Road and construction applications: Service life (Consumer) (not classified; air-rectified asphalt (PI <sub>≤</sub> 2))	barrier (sealant), binder, waterproofing agent			21	10a	ESVOC SPERC 8.15.v2
SL-34	Y	SL	A15SLc - Use in Road and construction applications: Service life (Consumer) (not classified; severely oxidized asphalt (PI <sub>&gt;</sub> 2))	barrier (sealant), binder, waterproofing agent			21	10a	ESVOC SPERC 8.15.v2

**b. List of Uses of each OxiAsph substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	265-196-4
01 - Manufacture of substance (not classified; air-rectified asphalt (PI≤2))	Y
01 - Manufacture of substance (not classified; severely oxidized asphalt (PI>2))	Y
02 - Formulation & (re)packing of substances and mixtures (not classified; air-rectified asphalt (PI≤2))	Y
02 - Formulation & (re)packing of substances and mixtures (not classified; severely oxidized asphalt (PI>2))	Y
01b - Use of substance as intermediate (not classified; air-rectified asphalt (PI≤2))	Y
01b - Use of substance as intermediate (not classified; severely oxidized asphalt (PI>2))	Y
03a - Uses in Coatings: Industrial - cold applications only, no emissions (severely oxidized asphalt (PI>2))	Y
03a - Uses in Coatings: Industrial (not classified; air-rectified asphalt (PI≤2))	Y
05aOFF - Use in Oil and Gas field drilling and production operations: Industrial offshore (not classified; air-rectified asphalt (PI≤2))	Y
05aON - Use in Oil and Gas field drilling and production operations: Industrial onshore (not classified; air-rectified asphalt (PI≤2))	Y
06a - Lubricants: Industrial (not classified; air-rectified asphalt (PI≤2))	Y
12a - Use in fuel: Industrial (not classified; air-rectified asphalt (PI≤2))	Y
12a - Use in fuel: Industrial (not classified; severely oxidized asphalt (PI>2))	Y
19 - Rubber production and processing: Industrial (not classified; air-rectified asphalt (PI≤2))	Y
19 - Rubber production and processing: Industrial (not classified; severely oxidized asphalt (PI>2))	Y
Use in Manufacture of Articles: Industrial (not classified; severely oxidized asphalt (PI>2))	Y

Name	265-196-4
03b - Uses in Coatings: Professional - cold applications only, no emissions (not classified; severely oxidized asphalt (PI>2))	Y
03b - Uses in Coatings: Professional (not classified; air-rectified asphalt (PI≤2))	Y
06b - Lubricants: Professional (low environmental release) (not classified; air-rectified asphalt (PI≤2))	Y
06c - Lubricants: Professional (high environmental release) (not classified; air-rectified asphalt (PI≤2))	Y
11a - Use in Agrochemicals: Professional (not classified; severely oxidized asphalt (PI>2))	Y
15 - Road and construction applications: Professional (not classified; air-rectified asphalt (PI≤2))	Y
Use in Construction Applications: Professional (not classified; severely oxidized asphalt (PI>2))	Y
03c - Uses in Coatings: Consumer - cold applications only, no emissions (not classified; severely oxidized asphalt (PI>2))	Y
03c - Uses in Coatings: Consumer (not classified; air-rectified asphalt (PI≤2))	Y
15c - Road and construction applications: Consumer (not classified; air-rectified asphalt (PI≤2))	Y
15c - Road and construction applications: Consumer (not classified; severely oxidized asphalt (PI>2))	Y
A15SLb - Use in Road and construction applications: Service life (Professional) (not classified; air-rectified asphalt (PI≤2))	Y
A15SLc - Use in Road and construction applications: Service life (Consumer) (not classified; air-rectified asphalt (PI≤2))	Y
A15SLc - Use in Road and construction applications: Service life (Consumer) (not classified; severely oxidized asphalt (PI>2))	Y
Use in Construction Applications: Service life (Professional) (not classified; severely oxidized asphalt (PI>2))	Y

### 3.20 Sulfur (Sulfur)

#### a. List of Uses and Use Descriptors for Sulfur

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (classified)				1, 2, 3, 4, 8a, 8b, 15, 28	1	ESVOC SpERC 1.1.v1
F-4	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 23, 24, 28	2	ESVOC SpERC 2.2.v1
IW-2	Y	IS	01b - Use of substance as intermediate (classified)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 15, 22, 23, 28	6a	ESVOC SpERC 6.1a.v1
IW-5	Y	IS	10a - Use as binders and release agents: Industrial (classified)	antiadhesive, binder		PC: 24, 14, 15, 9a, 9b, 9c, 20	1, 2, 3, 4, 6, 8a, 8b, 10, 13, 14, 28	4	ESVOC SpERC 4.10a.v1
IW-10	Y	IS	19 - Rubber production and processing: Industrial (classified)	0=vulcanizing agent	11	PC: 20, 32	1, 2, 3, 4, 5, 6, 7, 8a, 8b, 9, 10, 13, 14, 15, 21, 28	4	ESVOC SpERC 4.19a.v3
IW-11	Y	IS	12a - Use in fuel: Industrial (classified)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
IW-15	Y	IS	A13a - Use in matches: Industrial (classified)	reducing agent			1, 2, 3, 4, 5, 8a, 8b, 9, 10, 13, 26, 28	5	
IW-16	Y	IS	A14a - Use in fireworks: Industrial (classified)	reducing agent		PC: 0=Fireworks	1, 2, 3, 4, 5, 8a, 8b, 9, 10, 13, 28	8c, 8f	
PW-6	Y	PW	10b - Use as binders and release agents: Professional (classified)	antiadhesive, antioxidant, binder, crystal growth modifiers (nucleating agents)		PC: 24, 14, 15, 9a, 9b, 9c, 20	1, 2, 3, 4, 6, 8a, 8b, 10, 13, 14, 28	8a, 8d	ESVOC SpERC 8.10b.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
PW-7	Y	PW	11a - Use in Agrochemicals: Professional (classified)	fertilisers (soil amendments)		PC: 8, 12, 27	1, 2, 4, 8a, 8b, 11, 13, 28	8a, 8d	ESVOC SpERC 8.11a.v1
PW-9	Y	PW	15 - Road and construction applications: Professional (classified)	binder		PC: 1, 9b, 0=Road and Construction	8a, 8b, 9, 10, 11, 13, 28	8d	ESVOC SPERC 8.15.v2
PW-12	Y	PW	18b - Explosives manufacture & use: Professional (classified)	reducing agent		PC: 11	1, 2, 3, 5, 8a, 8b, 28	8e	ERC DEFINED RELEASE FRACTIONS
PW-17	Y	PW	A14b - Use in fireworks: Professional (classified)	reducing agent		PC: 0=Fireworks	4, 5, 8a, 8b, 9, 10, 13, 28	8c, 8f	
C-8	Y	C	11b - Use in Agrochemicals: Consumer (classified)	fertilisers (soil amendments)		PC: 12, 27		8a, 8d	ESVOC SpERC 8.11b.v1
SL-18	Y	SL	A13SLc - Use in matches: Service Life (Consumers) (classified)	reducing agent		AC: 0=Matches; PC: 0=Matches		10b, 11b	
SL-19	Y	SL	A14SLb - Use in fireworks: Service Life (Professional) (classified)	reducing agent		AC: 0=Fireworks	0=Fireworks	10b	
SL-20	Y	SL	A14SLc - Use in fireworks: Service Life (Consumers) (classified)	reducing agent		AC: 0=Fireworks; PC: 0=Fireworks		10b	
SL-21	Y	SL	A15SLb - Use in Road and construction applications: Service life (Professional) (classified)	binder			21	10a	ESVOC SPERC 8.15.v2

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
SL-22	Y	SL	A13aSLa - Use in matches: Service Life (Industrial) (classified)	reducing agent		AC: 0=Matches; PC: 21		10a, 11a	
SL23	Y	SL	A14SLa - Use in fireworks: Service Life (Industrial) (classified)	reducing agent		AC: 0=Fireworks		12b	

**b. List of Uses of each Sulfur substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	231-722-6
01 - Manufacture of substance (classified)	Y
02 - Formulation & (re)packing of substances and mixtures (classified)	Y
01b - Use of substance as intermediate (classified)	Y
10a - Use as binders and release agents: Industrial (classified)	Y
12a - Use in fuel: Industrial (classified)	Y
19 - Rubber production and processing: Industrial (classified)	Y
A13a - Use in matches: Industrial (classified)	Y
A14a - Use in fireworks: Industrial (classified)	Y
10b - Use as binders and release agents: Professional (classified)	Y
11a - Use in Agrochemicals: Professional (classified)	Y
15 - Road and construction applications: Professional (classified)	Y
18b - Explosives manufacture & use: Professional (classified)	Y
A14b - Use in fireworks: Professional (classified)	Y
11b - Use in Agrochemicals: Consumer (classified)	Y
A13aSLa - Use in matches: Service Life (Industrial) (classified)	Y
A13SLc - Use in matches: Service Life (Consumers) (classified)	Y
A14SLa - Use in fireworks: Service Life (Industrial) (classified)	Y
A14SLb - Use in fireworks: Service Life (Professional) (classified)	Y
A14SLc - Use in fireworks: Service Life (Consumers) (classified)	Y
A15SLb - Use in Road and construction applications: Service life (Professional) (classified)	Y

### 3.21 Renewable Deoxygenate Diesel (RenewDD)

#### a. List of Uses and Use Descriptors for RenewDD

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (classified; non-carcinogenic feed-stock)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
F-7	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified; non-carcinogenic feed-stock)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
IW-3	Y	IS	01b - Use of substance as intermediate (classified; non-carcinogenic feed-stock)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-30	Y	IS	12a - Use in fuel: Industrial (classified; non-carcinogenic feed-stock)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
PW-32	Y	PW	12b - Use in fuel: Professional (classified; non-carcinogenic feed-stock)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
C-500	Y	C	12c - Use in fuel: Consumer (classified; non-carcinogenic feed-stock)	fuel		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1

**b. List of Uses of each RenewDD substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	951-915-5
01 - Manufacture of substance (classified; non-carcinogenic feed-stock)	Y
02 - Formulation & (re)packing of substances and mixtures (classified; non-carcinogenic feed-stock)	Y
01b - Use of substance as intermediate (classified; non-carcinogenic feed-stock)	Y
12a - Use in fuel: Industrial (classified; non-carcinogenic feed-stock)	Y
12b - Use in fuel: Professional (classified; non-carcinogenic feed-stock)	Y
12c - Use in fuel: Consumer (classified; non-carcinogenic feed-stock)	Y

### 3.22 Co-processed gas oil from plant/animal origin (CPGOAV)

#### a. List of Uses and Use Descriptors for CPGOAV

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (classified)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
F-4	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
IW-2	Y	IS	01b - Use of substance as intermediate (classified)	intermediate (precursor)	8, 9	PC: 0=Intermediates	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-15	Y	IS	12a - Use in fuel: Industrial (classified)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
PW-16	Y	PW	12b - Use in fuel: Professional (classified)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
C-17	Y	C	12c - Use in fuel: Consumer (classified)	fuel		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1

**b. List of Uses of each CPGOAV substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	941-364-9
01 - Manufacture of substance (classified)	Y
02 - Formulation & (re)packing of substances and mixtures (classified)	Y
01b - Use of substance as intermediate (classified)	Y
12a - Use in fuel: Industrial (classified)	Y
12b - Use in fuel: Professional (classified)	Y
12c - Use in fuel: Consumer (classified)	Y

### 3.23 Co-processed (hydrotreated) naphtha from plant/animal origin (CPNAV)

#### a. List of Uses and Use Descriptors for CPNAV

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-4	Y	M	01 - Manufacture of substance (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))				1, 2, 3, 8a, 8b, 15, 28	1	ESVOC SpERC 1.1.v1
F-34	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))	no technical function			1, 2, 3, 8a, 8b, 15, 28	2	ESVOC SpERC 2.2.v1
IW-10	Y	IS	01b - Use of substance as intermediate (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 8a, 8b, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-16	Y	IS	12a - Use in fuel: Industrial (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
PW-22	Y	PW	12b - Use in fuel: Professional (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
C-600	Y	C	12c - Use in fuel: Consumer (substance - classified; including H340, H350 and/or H361-, supplied in a mixture, benzene in	fuel		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
			the final product equal or less than 1.0 %)						

**b. List of Uses of each CPNAV substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	941-381-1
01 - Manufacture of substance (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))	Y
02 - Formulation & (re)packing of substances and mixtures (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))	Y
01b - Use of substance as intermediate (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))	Y
12a - Use in fuel: Industrial (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))	Y
12b - Use in fuel: Professional (classified; including H340, H350 and/or H361; (containing equal to or greater than 1% to 5% benzene))	Y
12c - Use in fuel: Consumer (substance - classified; including H340, H350 and/or H361-, supplied in a mixture, benzene in the final product equal or less than 1.0 %)	Y

Co-processed (hydrotreated) naphtha from plant/animal origin (CPNAV) - b. List of Uses of each CPNAV substance as detailed in the respective Chemical Safety Report, listed by EC number

### 3.24 Co-processed diesel/gas oil from thermally cracked plastics (CPGOTP)

#### a. List of Uses and Use Descriptors for CPGOTP

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (classified)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
F-4	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
IW-2	Y	IS	01b - Use of substance as intermediate (classified)	intermediate (precursor)	8, 9	PC: 0=Intermediates	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-15	Y	IS	12a - Use in fuel: Industrial (classified)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
PW-16	Y	PW	12b - Use in fuel: Professional (classified)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
C-17	Y	C	12c - Use in fuel: Consumer (classified)	fuel		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1

**b. List of Uses of each CPGOTP substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	941-803-4
01 - Manufacture of substance (classified)	Y
02 - Formulation & (re)packing of substances and mixtures (classified)	Y
01b - Use of substance as intermediate (classified)	Y
12a - Use in fuel: Industrial (classified)	Y
12b - Use in fuel: Professional (classified)	Y
12c - Use in fuel: Consumer (classified)	Y

### 3.25 Co-processed naphtha from thermally cracked plastics (CPNTP)

#### a. List of Uses and Use Descriptors for CPNTP

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-2	Y	M	01 - Manufacture of substance (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))				1, 2, 3, 8a, 8b, 15, 28	1	ESVOC SpERC 1.1.v1
F-17	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	no technical function			1, 2, 3, 8a, 8b, 15, 28	2	ESVOC SpERC 2.2.v1
IW-7	Y	IS	01b - Use of substance as intermediate (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 8a, 8b, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-29	Y	IS	12a - Use in fuel: Industrial (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
PW-31	Y	PW	12b - Use in fuel: Professional (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
C-600	Y	C	12c - Use in fuel: Consumer (substance - classified; including H340, H350 and/or H361-, supplied in a mixture, benzene in	fuel		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
			the final product equal or less than 1.0 %)						

**b. List of Uses of each CPNTP substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	941-806-0
01 - Manufacture of substance (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	Y
02 - Formulation & (re)packing of substances and mixtures (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	Y
01b - Use of substance as intermediate (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	Y
12a - Use in fuel: Industrial (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	Y
12b - Use in fuel: Professional (classified; including H340 and/or H350 and/or H361; (containing equal or greater than 0.1% to 1% benzene))	Y
12c - Use in fuel: Consumer (substance - classified; including H340, H350 and/or H361-, supplied in a mixture, benzene in the final product equal or less than 1.0 %)	Y

Co-processed naphtha from thermally cracked plastics (CPNTP) - b. List of Uses of each CPNTP substance as detailed in the respective Chemical Safety Report, listed by EC number

### 3.26 Co-processed (thermal cracking) gas oil from waste plastics (CPGOPW)

#### a. List of Uses and Use Descriptors for CPGOPW

This standalone category is registered as intermediate only, therefore there are no list of active uses or descriptors.

#### b. List of Uses of each CPGOPW substance as detailed in the respective Chemical Safety Report, listed by EC number

This substance is registered as intermediate only, therefore there is no active use.

## 3.27 Solvent Naphtha (SNAP)

### a. List of Uses and Use Descriptors for SNAP

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (classified; including H350)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
F-4	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified; including H350)	no technical function			1, 2, 3, 8a, 8b, 9, 15, 28	2	ESVOC SpERC 2.2.v1
F-41	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified; including H226, H315, H304, H336 and/or H411)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
IW-2	Y	IS	01b - Use of substance as intermediate (classified; including H350)	intermediate (precursor)	8, 9	PC: 0=Intermediate	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-34	Y	IS	06a - Lubricants: Industrial (classified; including H226, H315, H304, H336 and/or H411)	heat transferring agent, lubricating agent		PC: 24	1, 2, 3, 4, 7, 8a, 8b, 9, 10, 13, 17, 18, 28	4, 7	ESVOC SpERC 4.6a.v1
IW-37	Y	IS	12a - Use in fuel: Industrial (classified; including H226, H315, H304, H336 and/or H411)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
PW-23	Y	PW	12b - Use in fuel: Professional (classified; including H350)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
PW-39	Y	PW	12b - Use in fuel: Professional (classified; including H226, H315, H304, H336 and/or H411)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
C-40	Y	C	12c - Use in fuel: Consumer (classified; including H226, H315, H304, H336 and/or H411)	fuel		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1

**b. List of Uses of each SNAP substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	265-198-5
01 - Manufacture of substance (classified; including H350)	Y
02 - Formulation & (re)packing of substances and mixtures (classified; including H226, H315, H304, H336 and/or H411)	Y
02 - Formulation & (re)packing of substances and mixtures (classified; including H350)	Y
01b - Use of substance as intermediate (classified; including H350)	Y
06a - Lubricants: Industrial (classified; including H226, H315, H304, H336 and/or H411)	Y
12a - Use in fuel: Industrial (classified; including H226, H315, H304, H336 and/or H411)	Y
12b - Use in fuel: Professional (classified; including H226, H315, H304, H336 and/or H411)	Y
12b - Use in fuel: Professional (classified; including H350)	Y
12c - Use in fuel: Consumer (classified; including H226, H315, H304, H336 and/or H411)	Y

## 3.28 Renewable Diesel (RDI)

### a. List of Uses and Use Descriptors for RDI

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (classified)				1, 2, 3, 4, 8a, 8b, 9, 15, 28	1	ESVOC SpERC 1.1.v1
F-3	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified)	no technical function			1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
IW-2	Y	IS	01b - Use of substance as intermediate (classified)	intermediate (precursor)		PC: 0=Intermediates, 9	1, 2, 3, 4, 8a, 8b, 9, 15, 28	6a	ESVOC SpERC 6.1a.v1
IW-4	Y	IS	03a - Uses in Coatings: Industrial (classified)	corrosion inhibitor, diluent, vehicle (carrier)		PC: 1, 9a	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 14, 15, 28	4	ESVOC SpERC 4.3a.v1
IW-5	Y	IS	06a - Lubricants: Industrial (classified)	heat transferring agent, lubricating agent, processing aid		PC: 24	1, 2, 3, 4, 7, 8a, 8b, 9, 10, 13, 17, 18, 28	4	ESVOC SpERC 4.6a.v1
IW-6	Y	IS	12a - Use in fuel: Industrial (classified)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	7	ESVOC SpERC 7.12a.v1
IW-7	Y	IS	13a - Functional Fluids: Industrial (classified)	heat transferring agent, hydraulic (functional) fluids, impregnation agent, insulators, lubricating agent		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 3, 4, 8a, 8b, 9, 28	7	ESVOC SpERC 7.13a.v1
IW-8	Y	IS	22a - Water treatment chemicals: Industrial (classified)	defoamer, flocculating agent		PC: 36, 40, 2	1, 2, 3, 4, 8a, 8b, 13, 28	4	ESVOC SpERC 3.22a.v1
IW-21	Y	IS	04a - Use in Cleaning Agents: Industrial (classified)	cleaning agent		PC: 35	1, 2, 3, 4, 7, 8a, 8b, 10, 13, 28	4	ESVOC SpERC 4.4a.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
IW-22	Y	IS	07a - Metal working fluids / rolling oils: Industrial (classified)	corrosion inhibitor, heat transferring agent, lubricating agent		PC: 25	1, 2, 3, 4, 5, 7, 8a, 8b, 9, 10, 13, 17, 28	4	ESVOC SpERC 4.7a.v1
IW-23	Y	IS	10a - Use as binders and release agents: Industrial (classified)	antiadhesive		PC: 24, 14, 15, 9a, 9b, 9c, 20	1, 2, 3, 4, 6, 7, 8a, 8b, 10, 13, 14, 28	4	ESVOC SpERC 4.10a.v1
IW-24	Y	IS	23 - Mining chemicals: Industrial (classified)	defoamer, flotation agent		PC: 40, 2	1, 2, 3, 4, 5, 8a, 8b, 9, 28	4	ESVOC SpERC 4.23.v1
PW-9	Y	PW	03b - Uses in Coatings: Professional (classified)	adhesion promotor, barrier (sealant), binder, compatibilizer, corrosion inhibitor, dust suppressant, impregnation agent, processing aid, softener, vehicle (carrier), waterproofing agent, 0=glossing agent		PC: 1, 9a	1, 2, 3, 4, 5, 8a, 8b, 10, 11, 13, 15, 19, 28	8a, 8d	ESVOC SpERC 8.3b.v1
PW-10	Y	PW	06b - Lubricants: Professional (low environmental release) (classified)	heat transferring agent, lubricating agent, processing aid		PC: 24	1, 2, 3, 4, 8a, 8b, 9, 10, 11, 13, 17, 18, 20, 28	8a, 8d	ESVOC SpERC 9.6b.v1
PW-11	Y	PW	12b - Use in fuel: Professional (classified)	fuel		PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1
PW-12	Y	PW	15 - Road and construction applications: Professional (classified)	barrier (sealant), binder, softener, vehicle (carrier), waterproofing agent		PC: 1, 9b, 0=Road and Construction	1, 2, 8a, 8b, 9, 10, 11, 13, 28	8f	ESVOC SpERC 8.15.v2
PW-13	Y	PW	18b - Explosives manufacture & use: Professional (classified)	reducing agent, vehicle (carrier)		PC: 11	1, 2, 3, 5, 8a, 8b, 28	8e	ERC DEFINED RELEASE FRACTIONS
PW-14	Y	PW	22b - Water treatment chemicals: Professional (classified)	defoamer, flocculating agent		PC: 36, 40, 2	1, 2, 3, 4, 8a, 8b, 13, 28	8a, 8d	ESVOC SpERC 8.22b.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
PW-15	Y	PW	13b - Functional Fluids: Professional (classified)	heat transferring agent, hydraulic (functional) fluids, insulators, lubricating agent		PC: 16, 42, 33, 30, 17, 4, 0=Insulator	1, 2, 3, 8a, 9, 20, 28	9a, 9b	ESVOC SpERC 9.13b.v1
PW-25	Y	PW	04b - Use in Cleaning Agents: Professional (classified)	cleaning agent		PC: 35	1, 2, 3, 4, 8a, 8b, 10, 11, 13, 19	8a, 8d	ESVOC SpERC 8.4b.v1
PW-26	Y	PW	07b - Metal working fluids / rolling oils: Professional (classified)	corrosion inhibitor, heat transferring agent, lubricating agent		PC: 25	1, 2, 3, 5, 8a, 8b, 9, 10, 11, 13, 17, 28	8a, 8d	ESVOC SpERC 8.7c.v1
PW-27	Y	PW	10b - Use as binders and release agents: Professional (classified)	antiadhesive		PC: 24, 14, 15, 9a, 9b, 9c, 20	1, 2, 3, 4, 5, 6, 8a, 8b, 10, 11, 14	8a, 8d	ESVOC SpERC 8.10b.v1
C-16	Y	C	06d - Lubricants: Consumer (low environmental release) (classified)	heat transferring agent, lubricating agent		PC: 24		8a, 8d	ESVOC SpERC 9.6d.v1
C-17	Y	C	03c - Uses in Coatings: Consumer (classified)	adhesion promotor, barrier (sealant), binder, compatibilizer, corrosion inhibitor, dust suppressant, impregnation agent, processing aid, softener, vehicle (carrier), waterproofing agent, 0=glossing agent		PC: 1		8a	ESVOC SpERC 8.3c.v1
C-18	Y	C	13c - Functional Fluids: Consumer (classified)	heat transferring agent, hydraulic (functional) fluids, impregnation agent, insulators, lubricating agent		PC: 16, 17		9a, 9b	ESVOC SpERC 9.13c.v1
C-19	Y	C	12c - Use in fuel: Consumer (classified)	fuel		PC: 13		9a, 9b	ESVOC SpERC 9.12c.v1
C-28	Y	C	04c - Use in Cleaning Agents: Consumer (classified)	cleaning agent		PC: 3, 4, 31, 35, 38		8a, 8d	ESVOC SpERC 8.4c.v1

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
SL-20	Y	SL	A15SLb - Use in Road and construction applications: Service life (Professional) (classified)	barrier (sealant), binder, softener, vehicle (carrier), waterproofing agent			21	10a	ESVOC SPERC 8.15.v2

**b. List of Uses of each RDI substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	700-571-2
01 - Manufacture of substance (classified)	Y
02 - Formulation & (re)packing of substances and mixtures (classified)	Y
01b - Use of substance as intermediate (classified)	Y
03a - Uses in Coatings: Industrial (classified)	Y
04a - Use in Cleaning Agents: Industrial (classified)	Y
06a - Lubricants: Industrial (classified)	Y
07a - Metal working fluids / rolling oils: Industrial (classified)	Y
10a - Use as binders and release agents: Industrial (classified)	Y
12a - Use in fuel: Industrial (classified)	Y
13a - Functional Fluids: Industrial (classified)	Y
22a - Water treatment chemicals: Industrial (classified)	Y
23 - Mining chemicals: Industrial (classified)	Y
03b - Uses in Coatings: Professional (classified)	Y
04b - Use in Cleaning Agents: Professional (classified)	Y
06b - Lubricants: Professional (low environmental release) (classified)	Y
07b - Metal working fluids / rolling oils: Professional (classified)	Y
10b - Use as binders and release agents: Professional (classified)	Y
12b - Use in fuel: Professional (classified)	Y
13b - Functional Fluids: Professional (classified)	Y
15 - Road and construction applications: Professional (classified)	Y
18b - Explosives manufacture & use: Professional (classified)	Y
22b - Water treatment chemicals: Professional (classified)	Y

Name	700-571-2
03c - Uses in Coatings: Consumer (classified)	Y
04c - Use in Cleaning Agents: Consumer (classified)	Y
06d - Lubricants: Consumer (low environmental release) (classified)	Y
12c - Use in fuel: Consumer (classified)	Y
13c - Functional Fluids: Consumer (classified)	Y
A15SLb - Use in Road and construction applications: Service life (Professional) (classified)	Y

### 3.29 Sustainable Aviation Fuel (SAF)

#### a. List of Uses and Use Descriptors for SAF

Code in IUCLID	Use Reported	Life cycle stage	Name	Technical Function	SU	AC/PC	PROC	ERC	SpERC
M-1	Y	M	01 - Manufacture of substance (classified)			AC: N	1, 2, 3, 4, 8a, 8b, 9, 28	1	ESVOC SpERC 1.1.v1
F-2	Y	F	02 - Formulation & (re)packing of substances and mixtures (classified)	no technical function		AC: N	1, 2, 3, 4, 5, 8a, 8b, 9, 14, 15, 28	2	ESVOC SpERC 2.2.v1
PW-3	Y	PW	12b - Use in fuel: Professional (classified)	fuel, fuel additive		AC: N; PC: 13	1, 2, 8a, 8b, 16, 28	9a, 9b	ESVOC SpERC 9.12b.v1

**b. List of Uses of each SAF substance as detailed in the respective Chemical Safety Report, listed by EC number**

Name	931-082-4
01 - Manufacture of substance (classified)	Y
02 - Formulation & (re)packing of substances and mixtures (classified)	Y
12b - Use in fuel: Professional (classified)	Y

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