



SAFETY DATA SHEET

ODOURLESS KEROSENE

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	ODOURLESS KEROSENE
Product number	0055
REACH registration number	01-2119456620-43-xxxx
EC number	926-141-6

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Manufacture of substance Distribution of substance Formulation and (re)packing of substances and mixtures Uses in coatings Use in cleaning agents Lubricant. Use in metal working fluids/Rolling oils Use as binders and release agents Use as a fuel. Lamp oil. Barbecue lighter. Use as a functional fluid Road and construction applications Other consumer uses Laboratories Explosives manufacture & use. Water treatment Polymer processing
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1.3. Details of the supplier of the safety data sheet

Supplier	Samuel Banner & Co Ltd Hampton Court Manor Park Runcorn Cheshire WA7 1TU, UK +44 (0)1928 597 000 (General Enquiries) +44 (0)1928 597 001 (Fax)
Contact person	sdsadmin@bannerchemicals.com

1.4. Emergency telephone number

Emergency telephone	0207 405 5375 (National Chemical Emergency Centre) 0870 190 6777 (National Chemical Emergency Centre) +44 (0)1270 502891
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Asp. Tox. 1 - H304
Environmental hazards	Not Classified

2.2. Label elements

EC number	926-141-6
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ODOURLESS KEROSENE

Pictogram



Signal word	Danger
Hazard statements	H304 May be fatal if swallowed and enters airways.
Precautionary statements	P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P331 Do NOT induce vomiting.
Contains	Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclic, <2% aromatics

2.3. Other hazards

Vapours may form explosive mixtures with air. The material can accumulate static charge and can therefore cause electrical ignition.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclic, <2% aromatics	60-100%
CAS number: —	EC number: 926-141-6
	REACH registration number: 01-2119456620-43-xxxx
Classification	
Asp. Tox. 1 - H304	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	In case of serious or persistent conditions, call a doctor or emergency medical care.
Inhalation	Move affected person to fresh air at once. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Ingestion	DO NOT induce vomiting. Get medical attention immediately. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	Upper respiratory irritation. Irritation of nose, throat and airway. Nausea, vomiting. Unconsciousness and convulsions can occur.
Ingestion	Harmful if swallowed. The product may enter the lungs due to its low viscosity, and lead to the rapid development of very serious inhalation pulmonary lesions (medical survey during 48 hours). May cause discomfort if swallowed. Nausea, vomiting. Central nervous system depression.
Skin contact	Prolonged contact may cause redness, irritation and dry skin.

ODOURLESS KEROSENE

Eye contact May cause temporary eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Control run-off water by containing and keeping it out of sewers and watercourses.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage.

6.2. Environmental precautions

Environmental precautions Contain spillage with sand, earth or other suitable non-combustible material. Avoid the spillage or runoff entering drains, sewers or watercourses. Inform the relevant authorities if this occurs.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water.

6.4. Reference to other sections

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid contact with skin and eyes. Avoid inhalation of vapours and spray/mists. Provide adequate ventilation. Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Storage tanks and other containers must be earthed. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from heat, sparks and open flame. Earth container and transfer equipment to eliminate sparks from static electricity. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Store away from the following materials: Acids. Oxidising materials. Suitable container materials: Mild steel. Stainless steel.

ODOURLESS KEROSENE

7.3. Specific end use(s)

Usage description Storage tanks must be positioned within a bunded area.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclic, <2% aromatics

Long-term exposure limit (8-hour TWA): OEL 1200 mg/m³

OEL = Occupational Exposure Limit.

Hydrocarbons, C11-14, n-alkanes, isoalkanes, cyclic, <2% aromatics

DNEL

According to information provided, the product does not have any harmful effects if it is used and handled as specified.

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Wear chemical splash goggles. Manufactured/Tested in accordance with EN 166.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Gloves are recommended for prolonged use. Manufactured/tested in accordance with EN 374. Aliphatic hydrocarbon resistant gloves.

Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

Provide eyewash station and safety shower. Use engineering controls to reduce air contamination to permissible exposure level. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap and water if skin becomes contaminated. When using do not eat, drink or smoke.

Respiratory protection

In confined or poorly-ventilated spaces, a supplied-air respirator must be worn.

Environmental exposure controls

Do not allow material to contaminate groundwater system.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Colourless.
Odour	Odourless. or No characteristic odour.
Initial boiling point and range	190 - 280°C @
Flash point	>62°C
Evaporation rate	600 (diethyl ether = 1)

ODOURLESS KEROSENE

Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 0.5 Upper flammable/explosive limit: 6
Vapour pressure	0.15 hPa @ °C
Vapour density	> 1
Relative density	0.805 @ 15°C
Auto-ignition temperature	>200°C
Viscosity	<=2.0 mm ² /s @ 40°C
Explosive properties	Not considered explosive based on chemical structure and oxygen balance considerations.

9.2. Other information

Volatile organic compound This product contains a maximum VOC content of 859 mg/kg .

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Not applicable.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Strong acids. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Aldehydes.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Respiratory sensitisation

Respiratory sensitisation There is no evidence that the material can lead to respiratory hypersensitivity.

Skin sensitisation

Skin sensitisation Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro : Negative.

Genotoxicity - in vivo : Negative.

Carcinogenicity

Carcinogenicity No evidence of carcinogenicity

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No known effects based on information supplied.

Aspiration hazard

ODOURLESS KEROSENE

Aspiration hazard	The fluid can enter the lungs and cause damage (chemical pneumonitis, possibly fatal).
Inhalation	Vapour may irritate respiratory system/lungs. Vapours in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. Central nervous system depression.
Ingestion	Harmful if swallowed. Risk of severe pulmonary problems in case of accidental aspiration.
Skin contact	Prolonged contact may cause dryness of the skin. Repeated exposure may cause skin dryness or cracking.
Eye contact	May cause temporary eye irritation.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity	Exotoxicological studies have shown a very low order of toxicity with this type of material.
Acute toxicity - fish	LC ₅₀ , 96 hours: >1000 ppm mg/l, Algae
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >250ppm mg/l, Daphnia magna
Acute toxicity - aquatic plants	IC ₅₀ , 72 hours: 20ppm mg/l, Fish

12.2. Persistence and degradability

Persistence and degradability The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential The product has the potential to bio-accumulate.

12.4. Mobility in soil

Mobility Substance is a UVCB. Standard tests for this endpoint are not applicable.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information	Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Uncleaned empty packages should be disposed of in the same manner as the contents.
Waste class	EWC NUMBER: Allocation of a waste code number in accordance with the European Waste Catalogue, should be carried out in agreement with an EA authorised waste disposal company.

SECTION 14: Transport information

General Not regulated.

14.1. UN number

ODOURLESS KEROSENE

UN No. (ADR/RID) N/A

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU legislation Regulation (EC) No 1907/2006 REACH.
Regulation (EC) No 1272/2008 CLP.

Guidance Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

A chemical safety assessment has been carried out.

SECTION 16: Other information

Key literature references and sources for data Manufacturer's Material Safety Data Sheet Dangerous Substances Directive Dangerous Preparations Directive

Revision comments Inclusion of Exposure Scenarios

Issued by Compliance Department

Revision date 16/01/2018

Revision 12

Supersedes date 15/09/2017

SDS number 0055

SDS status Approved.

Hazard statements in full H304 May be fatal if swallowed and enters airways.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Section 1	Exposure Scenario: Worker
Title	Manufacture of substance - Industrial
Sector of Use	SU3, SU8, SU9, SU10
Process Category	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15
Environmental release Category	ERC1, ERC4
Processes, tasks, activities covered	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).
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Unless otherwise stated. Covers concentrations up to 100%
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.
Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Manufacture of substance
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and	Not applicable.

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

releases to soil	
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Distribution of substance - Industrial
Sector of Use	SU3, SU8, SU9
Process Category	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC15
Environmental release Category	ERC1, ERC2, ERC3, ERC4, ERC5, ERC6a, ERC6b, ERC6c, ERC6d, ERC7
Processes, tasks, activities covered	Loading (including marine vessel/barge, rail/road car and IBC loading) and repacking (including drums and small packs) of substance, including its sampling, storage, unloading distribution and associated laboratory activities.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Unless otherwise stated. Covers concentrations up to 100%
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response.

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

	<p>Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.</p>
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Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Distribution of substance
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Not applicable
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Formulation and (re)packing of substances and mixtures - Industrial
Sector of Use	SU3, SU10
Process Category	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC9, PROC14, PROC15

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Environmental release Category	ERC2
Processes, tasks, activities covered	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, sampling, maintenance and associated laboratory activities.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Formulation and (re)packing of substances and mixtures
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

3.2. Environment	Not applicable
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Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Use in Cleaning Agents - Industrial
Sector of Use	SU3
Process Category	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC10, PROC13
Environmental release Category	ERC4
Processes, tasks, activities covered	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.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Use in Cleaning Agents
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Use in Cleaning Agents – Professional
Sector of Use	SU22
Process Category	PROC1, PROC2, PROC3, PROC4, PROC8A, PROC8B, PROC10, PROC11, PROC13
Environmental release Category	ERC8a, ERC8D
Processes, tasks, activities covered	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, brushing, dipping, wiping automated and by hand).
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

	differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Use in Cleaning Agents
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
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Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Use as a lubricant - Industrial
Sector of Use	SU3
Process Category	PROC1, PROC2, PROC3, PROC4, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17, PROC 18
Environmental release Category	ERC4, ERC7
Processes, tasks, activities covered	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.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.
Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Use as a lubricant
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Use as a lubricant - Professional
Sector of Use	SU22
Process Category	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17, PROC 18, PROC20
Environmental release Category	ERC8a, ERC8b
Processes, tasks, activities covered	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.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Use as a lubricant
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Section 1	Exposure Scenario: Worker
Title	Use as a lubricant - Consumer
Sector of Use	SU21
Process Category	PC1, PC24, PC31
Environmental release Category	ERC8a, ERC8b, ERC9a, ERC9b
Processes, tasks, activities covered	Covers the use of formulated lubricants within closed or contained systems including incidental exposures during material transfers, operation of engines and similar articles, equipment maintenance and disposal of waste oil.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.
Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Use as a lubricant
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and	Not applicable.

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

releases to soil	
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Use as Metal working fluids/rolling oils - Industrial
Sector of Use	SU3
Process Category	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC17
Environmental release Category	ERC4
Processes, tasks, activities covered	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.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response.

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

	<p>Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.</p>
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Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Use as Metal working fluids/rolling oils
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Use as Metal working fluids/rolling oils - Professional
Sector of Use	SU22
Process Category	PROC1, PROC2, PROC3, PROC5, PROC8b, PROC9, PROC10, PROC11, PROC13, PROC17
Environmental release Category	ERC8a, ERC8d

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Processes, tasks, activities covered	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.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Use as Metal working fluids/rolling oils
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Use as Functional Fluids - Industrial
Sector of Use	SU3
Process Category	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC9
Environmental release Category	ERC7
Processes, tasks, activities covered	Use as functional fluids e.g. cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in industrial equipment including maintenance and related material transfers.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Use as Functional Fluids
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Use as Functional Fluids - Professional
Sector of Use	SU22
Process Category	PROC1, PROC2, PROC3, PROC8a, PROC9, PROC20
Environmental release Category	ERC9a, ERC9b
Processes, tasks, activities covered	Use as functional fluids e.g cable oils, transfer oils, coolants, insulators, refrigerants, hydraulic fluids in professional equipment including maintenance and related material transfers.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Section 2.1		Control of worker exposure
Operational conditions		
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).	
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.	
Risk Management Measures		
Contributing Scenarios		Risk Management Measures
General measures (Aspiration Hazard)		The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2		Control of environmental exposure
Operational conditions		
Contributing scenario	Use as Functional Fluids	
Product characteristics	Not applicable.	
Operational Conditions		
Frequency and duration of use	Not applicable.	
Environmental factors not influenced by risk management		
Other Operational Conditions of use affecting environmental exposure	Not applicable.	
Technical conditions and measures at process level (source) to prevent release	Not applicable.	
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.	
Organizational measures to prevent / limit release from site	Not applicable.	
Conditions and measures related to municipal sewage treatment plant	Not applicable.	
Conditions and measures related to external treatment of waste	Not applicable.	
Conditions and measures related to external recovery of waste	Not applicable.	

Section 3		Exposure estimation
3.1 Health	Not applicable	
3.2. Environment	Not applicable.	

Section 4		Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects.	

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

	Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Use as Functional Fluids - Consumer
Sector of Use	SU21
Process Category	PC16, PC17
Environmental release Category	ERC9a, ERC9b
Processes, tasks, activities covered	Use of sealed items containing functional fluids e.g. transfers oils, hydraulic fluids, refrigerants.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Use as Functional Fluids
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk	

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Use in laboratories - Industrial
Sector of Use	SU3
Process Category	PROC10, PROC15
Environmental release Category	ERC2, ERC4
Processes, tasks, activities covered	Use of the substance within laboratory settings, including material transfers and equipment cleaning.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

General measures (Aspiration Hazard)	<p>The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.</p>
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Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Use in laboratories
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Section 1	Exposure Scenario: Worker
Title	Use in laboratories - Professional
Sector of Use	SU22
Process Category	PROC10, PROC15
Environmental release Category	ERC8a
Processes, tasks, activities covered	Use of the substance within laboratory settings, including material transfers and equipment cleaning.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Use in laboratories
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Explosives manufacture & use - Industrial
Sector of Use	SU3, SU8, SU9
Process Category	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC15
Environmental release Category	ERC2
Processes, tasks, activities covered	Covers exposures arising from the manufacture and use of slurry explosives (including materials transfer, mixing and charging) and equipment cleaning.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

	proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.
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Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Explosives manufacture & use
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Explosives manufacture & use - Professional
Sector of Use	SU22
Process Category	PROC1, PROC2, PROC3, PROC5, PROC8a, PROC8b
Environmental release Category	ERC8e

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Processes, tasks, activities covered	Covers exposures arising from the manufacture and use of slurry explosives (including materials transfer, mixing and charging) and equipment cleaning.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Explosives manufacture & use
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Use in Coatings - Industrial
Sector of Use	SU3
Process Category	PROC1, PROC2, PROC3, PROC4, PROC5, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC14, PROC15
Environmental release Category	ERC4
Processes, tasks, activities covered	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.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

	swallowed then seek immediate medical assistance », to cover this risk.
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Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Use in Coatings
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Use in Coatings – Professional
Sector of Use	SU22
Process Category	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19
Environmental release Category	ERC8a, ERC8d
Processes, tasks, activities covered	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 associated laboratory activities.
Section 2	Operational conditions and risk management measures

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	
Control of worker exposure	
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2	
Control of environmental exposure	
Operational conditions	
Contributing scenario	Use in Coatings
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	
Exposure estimation	
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Use in Coatings – Consumer
Sector of Use	SU21
Product Category	PC1, PC4, PC9a, PC9b, PC9c, PC15, PC18, PC23, PC24, PC31, PC34, PC0
Environmental release Category	ERC8a, ERC8d
Processes, tasks, activities covered	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.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Use in Coatings
Product characteristics	Not applicable.
Operational Conditions	

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Use in Cleaning Agents – Consumer
Sector of Use	SU21
Product Category	PC3, PC4, PC9a, PC9b, PC9c, PC24, PC35, PC38, PC0
Environmental release Category	ERC8a, ERC8d
Processes, tasks, activities covered	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.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Use in Coatings
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Section 1	Exposure Scenario: Worker
Title	Use in Coatings – Professional
Sector of Use	SU22
Process Category	PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, PROC15, PROC19
Environmental release Category	ERC8a, ERC8d
Processes, tasks, activities covered	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 associated laboratory activities.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.
Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Use in Coatings
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and	Not applicable.

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

releases to soil	
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Use as binders and release agents - Industrial
Sector of Use	SU3
Process Category	PROC1, PROC2, PROC3, PROC4, PROC6, PROC7, PROC8b, PROC10, PROC13, PROC14
Environmental release Category	ERC4
Processes, tasks, activities covered	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.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

	<p>implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.</p>
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Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Use as binders and release agents
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Use as binders and release agents - Professional
Sector of Use	SU22
Process Category	PROC1, PROC2, PROC3, PROC4, PROC6, PROC8a, PROC8b, PROC10, PROC11, PROC14
Environmental release Category	ERC8a, ERC8d

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Processes, tasks, activities covered	Covers the use as binders and release agents including material transfers, mixing, application by spraying, brushing, and handling of waste.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Use as binders and release agents
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Use as a fuel - Industrial
Sector of Use	SU3
Process Category	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16
Environmental release Category	ERC7
Processes, tasks, activities covered	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Use as a fuel
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Use as a fuel - Professional
Sector of Use	SU22
Process Category	PROC1, PROC2, PROC3, PROC8a, PROC8b, PROC16
Environmental release Category	ERC9a, ERC9b
Processes, tasks, activities covered	Covers the use as a fuel (or fuel additive) and includes activities associated with its transfer, use, equipment maintenance and handling of waste.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Use as a fuel
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

4.2. Environment	Not applicable
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Section 1	Exposure Scenario: Worker
Title	Use as a fuel - Consumer
Sector of Use	SU21
Product Category	PC13
Environmental release Category	ERC9a, ERC9b
Processes, tasks, activities covered	Covers consumer uses in liquid fuels.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Use as a fuel
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting	Not applicable.

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

environmental exposure	
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Road and construction applications - Professional
Sector of Use	SU22
Process Category	PROC8a, PROC8b, PROC9, PROC10, PROC11, PROC13
Environmental release Category	ERC8d, ERC8f
Processes, tasks, activities covered	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.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

	<p>quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.</p>
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Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Road and construction applications
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Other Consumer Uses - Consumer
Sector of Use	SU21

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Product Category	PC28, PC39
Environmental release Category	ERC8a, ERC8d
Processes, tasks, activities covered	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.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Other Consumer Uses
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Conditions and measures related to external recovery of waste	Not applicable.
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Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Water treatment chemicals - Industrial
Sector of Use	SU3
Process Category	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC13
Environmental release Category	ERC3, ERC4
Processes, tasks, activities covered	Covers the use of the substance for the treatment of water at industrial facilities in open and closed systems.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

	via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.
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Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Water treatment chemicals
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Water treatment chemicals - Professional
Sector of Use	SU22
Process Category	PROC1, PROC2, PROC3, PROC4, PROC8a, PROC8b, PROC13
Environmental release Category	ERC8f
Processes, tasks, activities covered	Covers the use of the substance for the treatment of water in open and closed systems.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Water treatment chemicals
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
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Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Water treatment chemicals - Consumer
Sector of Use	SU21
Product Category	PC36, PC37
Environmental release Category	ERC8f
Processes, tasks, activities covered	Covers the use of the substance for the treatment of water in open and closed systems.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Water treatment chemicals
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Section 1	Exposure Scenario: Worker
Title	Polymer processing - Industrial
Sector of Use	SU3
Process Category	PROC1, PROC2, PROC3, PROC4, PRC5, PROC6, PROC8a, PROC8b, PROC9, PROC13PROC14, PROC15
Environmental release Category	ERC4
Processes, tasks, activities covered	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.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Polymer processing
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.
Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Section 1	Exposure Scenario: Worker
Title	Polymer processing - Professional
Sector of Use	SU22
Process Category	PROC1, PROC2, PROC6, PROC8a, PROC8b, PROC14, PROC21
Environmental release Category	ERC8a, ERC8f
Processes, tasks, activities covered	Processing of formulated polymers including material transfers, moulding and forming activities, material re-works and associated maintenance.
Section 2	Operational conditions and risk management measures
Product characteristics	
Physical form of product	Liquid
Concentration of substance in product	Covers percentage substance in the product up to 100% (unless stated differently).
Section 2.1	Control of worker exposure
Operational conditions	
Frequency and duration of use	Covers daily exposures up to 8 hours (unless stated differently).
Other Operational Conditions affecting worker exposure	Assumes a good basic standard of occupational hygiene is implemented. No exposure assessment presented for human health.
Risk Management Measures	
Contributing Scenarios	Risk Management Measures
General measures (Aspiration Hazard)	The CLP hazard statement H304 (May be fatal if swallowed and enters airways) relates to a risk of aspiration which is associated to a non-quantifiable hazard determined by kinematic viscosity. This risk may arise if swallowed but also in case of vomiting after ingestion. The toxicity hazard of aspiration, although being a hazard for health, does not result from any observed toxicological effect characterized by a dose-response. Therefore no DNEL can be derived. Operational Conditions (OCs) and implementation of Risk Management Measures (RMMs) need to be proportional to the degree of concern for the health hazard presented by the substance. The exposure by ingestion should not exist in the case of any permitted uses of the substance. The hazard statement H304 is related to a misuse that should not occur during the identified uses stated in section 1.2 of Material Safety Data Sheet (MSDS). In case of any risk, it should be controlled by implementing RMMs tailored specifically. For any substance classified H304, these RMMs should be communicated via the MSDS by the use of the following statement: « Do not ingest. If swallowed then seek immediate medical assistance », to cover this risk.

Section 2.2	Control of environmental exposure
Operational conditions	
Contributing scenario	Polymer processing
Product characteristics	Not applicable.
Operational Conditions	
Frequency and duration of use	Not applicable.
Environmental factors not influenced by risk management	
Other Operational Conditions of use affecting environmental exposure	Not applicable.
Technical conditions and measures at process level (source) to prevent release	Not applicable.
Technical onsite conditions and measures to reduce or limit discharges, air emissions and releases to soil	Not applicable.

Hydrocarbons, C13-C15, n-alkanes, isoalkanes, cyclics, <2% aromatics : EC: 926-141-6

Organizational measures to prevent / limit release from site	Not applicable.
Conditions and measures related to municipal sewage treatment plant	Not applicable.
Conditions and measures related to external treatment of waste	Not applicable.
Conditions and measures related to external recovery of waste	Not applicable.

Section 3	Exposure estimation
3.1 Health	Not applicable
3.2. Environment	Not applicable.

Section 4	Guidance to check compliance with the Exposure Scenario
4.1 Health	Available hazard data do not support the need for a DNEL to be established for other health effects. Risk Management Measures are based on qualitative risk characterisation.
4.2. Environment	Not applicable