

Safety Data Sheet

According to Regulation (EU) No. 830/2015

Revision date: 31/05/2019 Supersedes: 06/06/2018 Version: 5.0

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

1.1. Product identifier

Product form : Mixture

Trade name : Eni i-Sint 5W-40

Product code : 1023

Type of product : Lubricants

Formula : 0155-2019

Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use, Consumer use

Industrial/Professional use spec : Wide dispersive use

Use of the substance/mixture : Lubricant for internal combustion engines

Do not use the product for any purposes that have not been advised by the manufacturer.

Function or use category : Lubricants and additives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

ENI S.p.A.

P.le E. Mattei 1 - 00144 Rome Italy

Phone: (+39) 06 59821

www.eni.com

Contact:

Refining & Marketing

Competent person responsible for the Safety Data Sheet (Reg. EC nr. 1907/2006): SDSInfo@eni.com

1.4. Emergency telephone number

Emergency number : CNIT +39 0382 24444 (24h) (IT + EN)

Poison centre (UK):

National Poisons Information Service Edinburgh (24h)

(+44) 844 892 0111 0870 600 6266 (UK only) (Source: UN-WHO)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]

Not classified

Adverse physicochemical, human health and environmental effects

Prolonged and repeated skin contact may cause reddening, irritation and dermatitis. May cause an allergic skin reaction. For specific information about the toxicological/ecotoxicological properties and classification of this product, see Sect. 11 and/or Sect. 12.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH208 - Contains Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs,

calcium salts, Calcium long chain alkaryl sulfonate . May produce an allergic reaction.

EUH210 - Safety data sheet available on request.

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2.3. Other hazards (not relevant for classification)

Other hazards not contributing to the classification

: This product is combustible, but not classified as Flammable. The creation of flammable vapour mixtures takes place at temperatures which are higher than normal ambient levels. If the product is handled or used at high temperature, contact with hot product or vapours may cause burns. Do not wait for symptoms to develop. Any substance, in case of accidents involving pressurized circuits and the like, may be accidentally injected under the skin, even without external damage. In such a case, the victim should be brought to an hospital as soon as possible, to get specialized medical treatment. In exceptional cases (i.e prolunged storage in tanks contaminated with water, and presence of anaerobic sulfate-reducing microbial colonies), the product may undergo a degradation and generate small amounts of sulfur compounds, including H2S.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Notes

: Composition/Information on ingredients:

Mixture of hydrocarbons

Mineral base oil, severely refined

Additives

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]
Distillates (petroleum), hydrotreated heavy paraffinic (Main component, see note [**], see note [***])	(CAS-No.) 64742-54-7 (EC-No.) 265-157-1 (EC Index-No.) 649-467-00-8 (REACH-no) 01-2119484627-25	70 - 80	Asp. Tox. 1, H304
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (Additive)	(CAS-No.) 68784-31-6 (EC-No.) 272-238-5 (EC Index-No.) N/A (REACH-no) 01-2119657973-23	0,5 - 1,5	Eye Dam. 1, H318 Aquatic Chronic 2, H411
Calcium long chain alkaryl sulfonate (Additive)	(CAS-No.) 722503-69-7 (EC-No.) 682-812-0 (EC Index-No.) N/A (REACH-no) N/A	0,5 - 1,5	Skin Sens. 1B, H317 Aquatic Chronic 4, H413
Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts (Additive)	(CAS-No.) 722503-68-6 (EC-No.) 682-816-2 (EC Index-No.) N/A (REACH-no) N/A	0,1 - 0,9	Skin Sens. 1, H317 Aquatic Chronic 4, H413
Mineral base oil, severely refined (For identification of the substance, see note [*] , see note [***])		10 - 20	Not classified

Notes

: [*] Note: this product may be formulated with one or more of the following severely refined mineral base oils (not classified as hazardous):

CAS 64742-54-7/EC 265-157-1/REACH Reg. # 01-2119484627-25-xxxx; CAS 64742-65-0/EC 265-169-7/REACH Reg. # 01-2119471299-27-xxxx; CAS 64742-70-7/EC 265-174-4/REACH Reg. # 01-2119487080-42-xxxx.

All these substances have a value < 3 % wt of DMSO extract, according to IP 346/92 (Nota L - Annex VI Reg (CE) 1272/2008, # 1.1.3)

Note [**]:

this product has a value of DMSO extract < 3% wt, according to IP 346/92. According to the criteria laid out by the EU (note L, Annex VI of Regulation (CE) 1272/2008), this product must be regarded as non carcinogenic.

Note [***]:

substance with occupational exposure limits for some EU countries affecting the category of mineral oils (finely refined mineral base oil mists; see section 8.1)

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation

: In case of disturbances owing to inhalation of vapours or mists, remove the victim from exposure; keep at rest; if necessary, seek medical attention. See also section 4.3.

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inflammation or irritation persists, seek medical advice. In case of contact with affected part with plenty of cold water, and cover with gauze or clean cloth. Ca		Take off contaminated clothing and shoes. Wash thoroughly with soap and water. If inflammation or irritation persists, seek medical advice. In case of contact with hot product, cool affected part with plenty of cold water, and cover with gauze or clean cloth. Call a doctor or bring to an hospital. Do not use salves or ointments, unless directed by doctor. Do not put ice on the burn.		
First-aid measures after eye contact	:	Rinse eyes thoroughly for at least 15 minutes. Keep eyelids well apart. If irritation, blurred vision or swelling occurs and persists, obtain medical advice from a specialist. In case of contact with hot product, cool affected part with plenty of cold water, and cover with gauze or clean cloth. Call a doctor or bring to an hospital. Do not use salves or ointments, unless directed by doctor.		
First-aid measures after ingestion	:	Do not induce vomiting. If the person is conscious, rinse mouth with water without swallowing. Keep at rest. Call for medical assistance or bring to an hospital. If the casualty is unconscious, place in the recovery position. In case of spontaneous vomiting, keep head low, to avoid the risk of aspiration into the lungs. Do not give anything by mouth to an unconscious person.		
4.2. Most important symptoms and effe	ects,	both acute and delayed		
Symptoms/effects after inhalation	:	This product has a low vapour pressure, and in normal conditions at ambient temperature the concentration in the air is negligible. A significant concentration may build up only if the product is used at high temperature, or in case of sprays and mists. In these cases overexposure to vapours may cause irritation to airways, nausea and dizziness.		
Symptoms/effects after skin contact	:	Prolonged and repeated skin contact may cause reddening, irritation and dermatitis. May produce an allergic reaction. Contact with hot product may cause thermal burns.		
Symptoms/effects after eye contact	:	Contact with eyes may cause a light transient irritation. Contact with hot product or vapours may cause burns.		
Symptoms/effects after ingestion	:	Accidental ingestion of small quantities of the product may cause irritation, nausea and gastric disturbances. Taking into account the taste of the product, however, ingestion of dangerous quantites is very unlikely.		
Symptoms/effects upon intravenous administration	:	No information available.		
Chronic symptoms	:	None to be reported, according to the present classification criteria.		
4.3. Indication of any immediate medic	al at	ttention and special treatment needed		
	ation	state of consciousness or if symptoms do not resolve. Seek medical attention in all cases of of H2S (hydrogen sulphide). The casualty should be sent immediately to hospital. Immediately administer oxygen if necessary.		
SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media	:	Small-size fires: carbon dioxide, dry chemicals, foam, sand or earth. Large fires: foam or water fog (mist). These means should be used by trained personnel only. Other extinguishing gases (according to regulations).		
Unsuitable extinguishing media	:	Do not use water jets. They could cause splattering, and spread the fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.		
5.2. Special hazards arising from the substance or mixture				
Fire hazard	:	This product is combustible, but not classied as flammable. The creation of flammable vapour mixtures takes place at temperatures which are higher than normal ambient levels.".		
Explosion hazard	:	In case of losses from pressurized circuits, the sprays may form mists. Take into account that in this case the lower explosion limit for mists is about $45~\rm g/m^3$ of air.		
Hazardous decomposition products in case of fire	Ξ	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, NOx, H2S and SOx (harmful/toxic gases). Oxygenated compounds (aldehydes, etc.). POx. ZnOx. CaOx.		
5.3. Advice for firefighters				
Firefighting instructions	:	Shut off source of product, if possible. If possible, move containers and drums away from danger area. Spilled product which is not burning should be covered with sand or foam. Use water sprays to cool containers and surfaces exposed to the flames. If the fire cannot be controlled, evacuate area.		
Special protective equipment for firefighters		Personal protection equipment for firefighters (see also sect. 8). In case of a large fire or in		

Special protective equipment for firefighters

Other information

Personal protection equipment for firefighters (see also sect. 8). In case of a large fire or in confined or poorly ventilated spaces, wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. EN 443. EN 469. EN 659.

: In case of fire, do not discharge residual product, waste materials and runoff water: collect separately and use a proper treatment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	:	Stop or contain leak at the source, if safe to do so. Eliminate all ignition sources if safe to do so
		(e.g. electricity, sparks, fires, flares). Avoid direct contact with released material. Avoid
		accidental sprays on hot surfaces or electrical contacts. Keep upwind.

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6.1.1. For non-emergency personnel

Protective equipment

: See Section 8.

Emergency procedures

: Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.

6.1.2. For emergency responders

Protective equipment

Small spillages: normal antistatic working clothes are usually adequate. Large spillages: full body suit of chemically resistant and antistatic material. if necessary heat resistant and insulated. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Gloves made of PVA are not water-resistant, and are not suitable for emergency use. If contact with hot product is possible or anticipated, gloves should be heat-resistant and thermally insulated. Antistatic non-skid safety shoes or boots, chemical resistant, if necessary heat resistant and insulated. Work helmet. Goggles and /or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory protection: A half or full-face respirator with filter(s) for organic vapours (A) (or A+B when applicable for H2S), or a Self-contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. A Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.

Emergency procedures

: Notify local authorities according to relevant regulations.

6.2. Environmental precautions

Do not let the product accumulate in confined or underground spaces. Do not let the product flow into sewers or water courses, or in any way contaminate the environment. In case of contamination of environment compartments (soil, subsoil, surface or underground waters), remove contaminated soil when possible, and in any case treat all involved compartments in accordance with local regulations. The site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.

6.3. Methods and material for containment and cleaning up

For containment

: Contain spilled liquid with sand, earth or other suitable absorbents (non-flammable). Recover free liquid and waste materials in suitable waterproof and oil-resistant containers. Clean contaminated area. Dispose of according to local regulations. If in water: Confine the spillage. Remove from surface by skimming or suitable floating absorbents. Collect recovered product and other waste materials in suitable waterproof, oil resistant containers. Recover or dispose of according to local regulations. Do not use solvents or dispersants, unless specifically advised by an expert, and, if required, approved by local authorities.

Other information

Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air temperature, wave/current direction and speed) may significantly influence the choice of appropriate actions. Local regulations may also prescribe or limit actions to be taken. For this reason, local experts should be consulted when necessary.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: This material is combustible, but will not ignite readily. Provide adequate ventilation. Use adequate personal protective equipment as needed. Due to the extremely slippery nature of this material, more care than usual must be exercised in material handling practices to keep off all walking surfaces. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid release to the environment. Emptied containers can contain combustible product residues. Do not cut, weld, drill, burn or incinerate empty containers or drums, unless they have been drained and cleaned. The product may release Hydrogen Sulphide: a specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances. Before entering storage tanks and commencing any operation in a confined area (e.g. tunnels), carry out an adequate clean-up, and check the atmosphere for oxygen content, flammability, and the presence of sulphur compounds. See also Section 16, "Other information".

Hygiene measures

: Avoid contact with skin. Do not breathe fume/ mist/ vapours. Do not ingest. Do not smoke. Do not eat and do not drink during use. Do not clean hands with dirty or oil-soaked rags. Do not reuse clothes, if they are still contaminated. Keep away from food and beverages. Take off immediately all contaminated clothing and wash it before reuse. Contaminated materials should not be allowed to accumulate in the workplaces and should never be kept inside the pockets. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in dry, well ventilated area. Keep away from open flames, hot surfaces and sources of ignition. Do not smoke.

Incompatible products

: Keep away from: strong oxidants.

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Storage area	: Storage area layout, tank design, equipment and operating procedures must comply with the relevant European, national or local legislation. Storage installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations.
Packages and containers:	: If the product is supplied in containers: Keep containers tightly closed and properly labelled.

: If the product is supplied in containers: Keep containers tightly closed and properly labelled. Keep only in the original container or in a suitable container for this kind of product.

For containers, or container linings use materials specifically approved for use with this product. Compatibility should be checked with the manufacturer.

Specific end use(s)

No information available.

Packaging materials

SECTION 8: Exposure controls/personal protection

Control parameters

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)					
Austria	MAK (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)			
Belgium	Limit value (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)			
Denmark	Grænseværdi (langvarig) (mg/m³)	1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)			
Denmark	Grænseværdi (kortvarig) (mg/m³)	2 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)			
Hungary	AK-érték	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)			
Netherlands	MAC TGG 8h (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)			
Spain	VLA-ED (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)			
Spain	VLA-EC (mg/m³)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)			
Sweden	Nivågränsvärde (NVG) (mg/m3)	1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)			
Sweden	Kortidsvärde (KTV) (mg/m3)	3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)			
United Kingdom	WEL TWA (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)			
United Kingdom	WEL STEL (mg/m³)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)			
Canada (Quebec)	VECD (mg/m³)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)			
Canada (Quebec)	VEMP (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)			
USA - ACGIH	ACGIH TLV®-TWA (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)			
USA - ACGIH	ACGIH TLV®-STEL (mg/m³)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)			
USA - NIOSH	NIOSH REL (TWA) (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)			
USA - NIOSH	NIOSH REL (STEL) (mg/m³)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)			
USA - OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)			
Mineral base oil, severely refined					
Austria	MAK (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)			
Belgium	Limit value (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)			
Denmark	Grænseværdi (langvarig) (mg/m³) 1 mg/m³ (Mineral base oil mist, severely DMSO extract <3% m/m)				
Denmark Grænseværdi (kortvarig) (mg/m³)		2 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)			

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Mineral base oil, severely refined

MAC TGG 8h (mg/m²) Smg/m² (Mineril base all mist, severely refined, DMSO outract c3% m/m)	Hungary	AK-érték		5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
DMSC extract -3% m/m)	Netherlands	MAC TGG 8h (n	ng/m³)			
DMSC extract 43% m/m	Spain	VLA-ED (mg/m³)			
DNISO extract <3% m/m)	Spain	VLA-EC (mg/m³)			
United Kingdom WEL TWA (mg/m²) 5 mg/m² (Mineral base oil mist, severely refined, DMSO extract <3% m/m) United Kingdom WEL STEL (mg/m²) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract <3% m/m) United Kingdom WEL STEL (mg/m²) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Canada (Quebec) VECD (mg/m²) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract <3% m/m) USA - ACGIH VEMP (mg/m²) 5 mg/m² (Mineral base oil mist, severely refined, DMSO extract <3% m/m) USA - ACGIH ACGIH TLV®-TWA (mg/m²) 5 mg/m² (Mineral base oil mist, severely refined, DMSO extract <3% m/m) USA - ACGIH ACGIH TLV®-STEL (mg/m²) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract <3% m/m) USA - NIOSH NIOSH REL (TWA) (mg/m²) 5 mg/m² (Mineral base oil mist, severely refined, DMSO extract <3% m/m) USA - NIOSH NIOSH REL (TWA) (mg/m²) 5 mg/m² (Mineral base oil mist, severely refined, DMSO extract <3% m/m) USA - OSHA OSHA CSHA (Mg/m²) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract <3% m/m) USA - OSHA OSHA (Mg/m²) 5 mg/m² (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Monitoring methods	Sweden	Nivågränsvärde	(NVG) (mg/m3)			
DMSO extract 39 in min United Kingdom WEL STEL (mg/m²) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 39 in min DMSO extract 39 in min DMSO extract 439 in min DMSO extra	Sweden	Kortidsvärde (K	TV) (mg/m3)			
DMSÖ extract 35% m/m	United Kingdom	WEL TWA (mg/i	m³)			
DMSO extract 3% m/m)	United Kingdom	WEL STEL (mg/	/m³)			
DMSO extract -3% m/m)	Canada (Quebec)	VECD (mg/m³)				
DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/m) 10 mg/m² (Mineral base oil mist, severely refined, DMSO extract 43% m/	Canada (Quebec)	VEMP (mg/m³)				
DMSÖ extract <3% m/m)	USA - ACGIH	ACGIH TLV®-T	WA (mg/m³)			
USA - NIOSH NIOSH REL (STEL) (mg/m³) NIOSH REL (STEL) (mg/m³) USA - OSHA OSHA PEL (TWA) (mg/m³) Smg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m) Monitoring methods Monitoring methods Monitoring procedures should be chosen according to the indications set by national authorities or labour contracts, Refer to relevant legislation and in any case to the good practice of industrial hygiene. Eni i-Sint 5W-40 DNEL/DMEL (additional information) Additional information Not applicable PNEC (additional information) Additional information Not applicable Distillates (petroleum), hydrotreated heavy parfifinic (64742-54-7) DNEL/DMEL (Workers) Long-term - systemic effects, inhalation 1.2 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m) DNEL/DMEL (General population) DNEL/DMEL (General population) Long-term - local effects, inhalation 1.2 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m) DNEL/DMEL (Workers) Long-term - systemic effects, inhalation 1.2 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m) DNEL/DMEL (Workers) Long-term - systemic effects, inhalation 1.2 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m) DNEL/DMEL (Workers) Long-term - systemic effects, dermal 1.2 mg/m²/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m) PNEL/DMEL (Workers) Long-term - systemic effects, dermal 1.2 mg/m²/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m) PNEL/DMEL (General population) Acute - systemic effects, dermal 1.2 mg/m²/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m) PNEL/DMEL (General population) Acute - systemic effects, dermal 1.2 mg/m²/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m) PNEL/DMEL (General population) Acute - systemic effects, dermal 1.2 mg/m²/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m)	USA - ACGIH	ACGIH TLV®-S	TEL (mg/m³)			
USA - OSHA OSHA PEL (TWA) (mg/m³) Monitoring methods Monitoring methods Monitoring methods Monitoring methods Monitoring methods Monitoring methods Monitoring procedures should be chosen according to the indications set by national authorities or labour contracts, Refer to relevant legislation and in any case to the good practice of industrial hygiene. Eni I-Sint 5W-40 DNEL/DMEL (additional information) Additional information Not applicable PNEC (additional information) Not applicable Distillates (petroleum), hydrotreated heavy parffinic (64742-54-7) DNEL/DMEL (Workers) Long-term - systemic effects, inhalation 1,2 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m) Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6) DNEL/DMEL (Workers) Acute - systemic effects, dermal 100 mg/kg bodyweight/day Long-term - systemic effects, inhalation 29 mg/kg bodyweight/day Acute - systemic effects, inhalation 198,6 mg/m³ Acute - systemic effects, inhalation 1,75 mg/m² Acute - syste	USA - NIOSH	NIOSH REL (TV	VA) (mg/m³)			
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PNEC aqua (treshwater) 4 µg/l	, ,					
	PNEC aqua (freshwater)		4 μg/l			

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According to Regulation (EU) No. 830/2015

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)			
PNEC aqua (marine water)	4,6 μg/l		
PNEC aqua (intermittent, freshwater)	44 μg/l		
PNEC (Sediment)			
PNEC sediment (freshwater)	0,0701 mg/kg dwt		
PNEC sediment (marine water)	0,00701 mg/kg dwt		
PNEC (Soil)			
PNEC soil	54,8 μg/kg		
PNEC (Oral)			
PNEC oral (secondary poisoning)	8,33 mg/kg food		
PNEC (STP)			
PNEC sewage treatment plant	3,8 mg/l		
N-+-	The Desired No. Effect Level (DNEL) is an estimated as followed at a manufactured form		

Note

: The Derived No Effect Level (DNEL) is an estimated safe level of exposure that is derived from toxicity data in accord with specific guidance within the European REACH regulation. The DNEL may differ from an Occupational Exposure Limit (OEL) for the same chemical. OELs may be recommended by an individual company, a governmental regulatory body or an expert organization, such as the Scientific Committee for Occupational Exposure Limits (SCOEL) or the American Conference of Governmental Industrial Hygienists (ACGIH). OELs are considered to be safe exposure levels for a typical worker in an occupational setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute short-term exposure limit (STEL). While also considered to be protective of health, OELs are derived by a process different from that of REACH.

8.2. Exposure controls

Appropriate engineering controls:

Before entering storage tanks and commencing any operation in a confined area, carry out an adequate clean-up, and check the atmosphere for oxygen content, flammability, and the presence of sulphur compounds. See also Section 16, "Other information".

Personal protective equipment (for industrial or professional use):

Face shield. Gloves. Protective clothing. Safety glasses. Safety shoes or boots. Dust/aerosol mask.

Hand protection:

When there is a risk of contact with the skin, use hydrocarbon-resistant, felt-lined gloves. Adequate materials: nitrile (NBR) or PVC with a protection index > 5 (permeation time > 240 mins). Use gloves respecting all the conditions and within the limits set by the manufacturer. Replace gloves immediately in case of cuts, holes or other signs of damages or degradation. If necessary, refer to the EN 374 standard.

Eye protection:

When there is a risk of contact with the eyes, use safety goggles or other means of protection (face shield). If necessary, refer to national standards or to the EN 166 standard.

Skin and body protection:

Long-sleeved overalls. If necessary, refer to the EN 340 and related standards, for definition of characteristics and performance according to the risk rating of the area. Antistatic non-skid safety shoes or boots, chemical resistant, if necessary heat resistant and insulated.

Respiratory protection:

Independently from other possible actions (technical modifications, operating procedures, and other means to limit the exposure of workers), personal protection equipment can be used according to necessity. Open or well ventilated spaces: if the product is handled without adequate containment means for the vapours: full or half-face gas mask with filter for organic vapours (A) or organic vapours/H2S (A+B). (EN 136/140/145). Combination filter device (DIN EN 141). Closed or confined areas (e.g. tank interiors): the use of protection measures for airways (masks or self-contained breathing apparatus), must be assessed according to the specific activity, as well as level and duration of predicted exposure. (EN 136/140/145). Approved respiratory protection equipment shall be used in spaces where hydrogen sulphide may accumulate: full face mask with cartridge/filter type "B" (grey for inorganic vapours including H2S) or self-contained breathing apparatus (SCBA). (EN 136/140/145)

Personal protective equipment symbol(s):











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According to Regulation (EU) No. 830/2015

Thermal hazard protection:

If contact with hot product is possible or anticipated, gloves should be heat-resistant and thermally insulated.

Environmental exposure controls:

Do not discharge the product into the environment. Prevent discharge of undissolved substance to or recover from onsite wastewater. Storage areas/installations should be designed with adequate bunds so as to prevent ground and water pollution in case of leaks or spills. Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed.

Consumer exposure controls:

No special requirements necessary, if handled at room temperature.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Liquid, bright & clear.
Colour : Yellow-brown.

Odour : Slight odour of petroleum.

Odour threshold : There are no data available on the preparation/mixture itself.

рΗ : Not applicable Relative evaporation rate (butylacetate=1) Negligible. Melting point : No data available Freezing point : No data available : No data available Boiling point Flash point : > 200 °C (ASTM D 93) Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available

Flammability (solid, gas)

Vapour pressure

Relative vapour density at 20 °C

Relative density

Solubility

Relative vapour density

Solubility

Relative density

Solubility

Relative density

Solubility

Relative density

Solubility

Relative density

Solubility

Solubility

Relative density

Solubility

Solubility : Water: Immiscible and insoluble
Log Pow : Not applicable for mixtures

Viscosity, kinematic : 85,6 mm²/s (40 °C) (ASTM D 445)

 Viscosity, dynamic
 : No data available

 Explosive properties
 : No data available

 Oxidising properties
 : No data available

 Explosive limits
 : LEL ≥ 45 g/m³ (Aerosol)

9.2. Other information

Additional information : No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

This mixture does not offer any further hazard for reactivity, except what is reported in the following paragraphs.

10.2. Chemical stability

Stable product, according to its intrinsic properties (in normal conditions of storage and handling).

10.3. Possibility of hazardous reactions

None (in normal conditions of storage and handling). Contact with strong oxidizers (peroxides, chromates, etc.) may cause a fire hazard. Sensitivity to heat, friction or shock cannot be assessed in advance.

10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials

Strong oxidants.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition may produce: Toxic fumes. In exceptional cases (i.e prolonged storage in tanks contaminated with water, and presence of anaerobic sulfate-reducing microbial colonies), the product may undergo a degradation and generate small amounts of sulfur compounds, including H2S. See also Section 16, "Other information".

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According to Regulation (EU) No. 830/2015

SECTION 11: Toxicological information	SECTION 11: Toxicological information			
11.1. Information on toxicological effects				
Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)			
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)			
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)			
Additional information	: (according to composition)			
Distillates (petroleum), hydrotreated heavy pa	araffinic (64742-54-7)			
LD50 oral rat	> 5000 mg/kg (OECD 401)			
LD50 dermal rat	> 5000 mg/kg (OECD 402)			
LC50 inhalation rat (mg/l)	> 5 mg/l/4h (OECD 403)			
Mineral base oil, severely refined				
LD50 oral rat	> 5000 mg/kg bodyweight (OECD 401)			
LD50 dermal rat	> 5000 mg/kg bodyweight (OECD 402)			
LC50 inhalation rat (mg/l)	> 5 mg/l/4h (OECD 403)			
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)			
	pH: Not applicable			
Additional information	: (according to composition)			
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)			
A Life Life of	pH: Not applicable			
Additional information	: (according to composition) This product is formulated with a component which contains substances classified as Eye Dam.1, H318. The component itself has been tested by the manufacturer and has been assessed as NOT irritant to eyes. This result has been used for classification of the final mixture (Bridging principle "Dilution").			
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)			
Additional information	 (according to composition) This product is formulated with a component containing one or more sensitizers. According to information provided by the supplier, test results on a similar formulation show that the finished product does not need to be classified as sensitizing. On basis of test data. not sensitising. This result has been used for classification of the final mixture (Bridging principle "Dilution"). This evaluation is based on the information provided by the suppliers. Exposure may produce an allergic reaction 			
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)			
Additional information	: (according to composition)			
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)			
Additional information	: (according to composition) This product contains: Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by treating a petroleum fraction with hydrogen in the presence of a catalyst. It consists of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil of at least 100 SUS at 100°F (19cSt at 40°C). It contains a relatively large proportion of saturated hydrocarbons.] this product has a value of DMSO extract < 3 % wt, according to IP 346/92. According to the criteria laid out by the EU (note L, Annex VI of Regulation (CE) 1272/2008), this product must be regarded as non carcinogenic. All the mineral base oils contained in this product have a value < 3 % wt of DMSO extract, according to IP 346/92 (Nota L - Annex VI Reg (CE) 1272/2008, # 1.1.3) No carcinogenic effect			
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)			
Additional information	: (according to composition)			
Additional information	: Not classified (Based on available data, the classification criteria are not met) : (according to composition)			
STOT-repeated exposure Additional information	 Not classified (Based on available data, the classification criteria are not met) (according to composition) 			
Distillates (petroleum), hydrotreated heavy pa	,			
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight/day (OECD TG 408)			
Mineral base oil, severely refined				
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight/day (OECD TG 408)			

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Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: Viscosity, kinematic: > 20,5 mm2/s (40 °C) (ASTM D 445)
Eni i-Sint 5W-40	
Viscosity, kinematic	85,6 mm ² /s (40 °C) (ASTM D 445)
Potential adverse human health effects and symptoms	: Prolonged and repeated skin contact may cause reddening, irritation and dermatitis. May cause an allergic skin reaction. Avoid all eye and skin contact and do not breathe vapour and mist.
Other information	: None.
SECTION 12: Ecological information	
SECTION 12: Ecological information 12.1. Toxicity	ı
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse
Ecology general	effects in the environment. An uncontrolled release to the environment may nevertheless produce a contamination of different environmental compartments (air, soil, underground, surface water bodies, aquifers). Handle according to general working hygiene practices to avoid pollution and release into the environment.
Ecology - air	: This product has a low vapour pressure. A significant exposure may happen only if the produ is used at high temperature, or in case of sprays and mists.
Ecology - water	: This product is not soluble in water. It floats on water and forms a film on the surface. The damage to aquatic organisms is of mechanical kind (immobilization and entrapment)
Acute aquatic toxicity	: Not classified (Based on available data, the classification criteria are not met)
Chronic aquatic toxicity	: Not classified (Based on available data, the classification criteria are not met)
Distillates (petroleum), hydrotreated heavy	paraffinic (64742-54-7)
LC50 fish 1	> 100 mg/l (LL 50)
EC50 Daphnia 1	> 10000 mg/l WAF, 48 h (OECD 202)
Mineral base oil, severely refined	
LC50 fish 1	> 100 mg/l (LL 50)
EC50 Daphnia 1	> 10000 mg/l WAF, 48 h (OECD 202)
12.2. Persistence and degradability	
Eni i-Sint 5W-40	
Persistence and degradability	The most significant constituents of the product should be considered as "inherently
reisistence and degradability	biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions.
Distillates (petroleum), hydrotreated heavy	paraffinic (64742-54-7)
Persistence and degradability	The most significant constituents of the product should be considered as "inherently biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions.
Mineral base oil, severely refined	
Persistence and degradability	The most significant constituents of the product should be considered as "inherently biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions.
Persistence and degradability	biodegradable", but not "readily biodegradable", and they may be moderately persistent,
Persistence and degradability	biodegradable", but not "readily biodegradable", and they may be moderately persistent,
Persistence and degradability 12.3. Bioaccumulative potential	biodegradable", but not "readily biodegradable", and they may be moderately persistent,
Persistence and degradability 12.3. Bioaccumulative potential Eni i-Sint 5W-40	biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions.
Persistence and degradability 12.3. Bioaccumulative potential Eni i-Sint 5W-40 Log Pow Bioaccumulative potential	biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions. Not applicable for mixtures
Persistence and degradability 12.3. Bioaccumulative potential Eni i-Sint 5W-40 Log Pow Bioaccumulative potential 12.4. Mobility in soil	biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions. Not applicable for mixtures
Persistence and degradability 12.3. Bioaccumulative potential Eni i-Sint 5W-40 Log Pow Bioaccumulative potential 12.4. Mobility in soil Eni i-Sint 5W-40	biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions. Not applicable for mixtures Not established.
Persistence and degradability 12.3. Bioaccumulative potential Eni i-Sint 5W-40 Log Pow Bioaccumulative potential 12.4. Mobility in soil Eni i-Sint 5W-40 Ecology - soil	biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions. Not applicable for mixtures Not established. No data available.
Persistence and degradability 12.3. Bioaccumulative potential Eni i-Sint 5W-40 Log Pow Bioaccumulative potential 12.4. Mobility in soil Eni i-Sint 5W-40 Ecology - soil 12.5. Results of PBT and vPvB assessments	biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions. Not applicable for mixtures Not established. No data available.
Persistence and degradability 12.3. Bioaccumulative potential Eni i-Sint 5W-40 Log Pow Bioaccumulative potential 12.4. Mobility in soil Eni i-Sint 5W-40 Ecology - soil 12.5. Results of PBT and vPvB assessmential	biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions. Not applicable for mixtures Not established. No data available.
Persistence and degradability 12.3. Bioaccumulative potential Eni i-Sint 5W-40 Log Pow Bioaccumulative potential 12.4. Mobility in soil Eni i-Sint 5W-40 Ecology - soil 12.5. Results of PBT and vPvB assessment	biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions. Not applicable for mixtures Not established. No data available. In criteria of REACH regulation, annex XIII

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According to Regulation (EU) No. 830/2015

Component	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII This substance does not meet the criteria for classification as PBT or vPvB. The product should be considered prudentially as "Persistent" in the environment, according to the REACH Annex XIII criteria (point 1.1)
Mineral base oil, severely refined ()	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII This substance does not meet the criteria for classification as PBT or vPvB. The product should be considered prudentially as "Persistent" in the environment, according to the REACH Annex XIII criteria (point 1.1)

12.6. Other adverse effects

Other adverse effects : None.

Additional information : This product has no specific properties for inhibition of bacterial activity. In any case,

wastewater containing this product should be treated in plants that are suited for the specific

purpose.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Do not dispose of the product, either new or used, by discharging into sewers, tunnels, lakes or

water courses. Deliver to a qualified official collector.

Sewage disposal recommendations : Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or

reclaimed. Dispose of in a safe manner in accordance with local/national regulations.

Product/Packaging disposal recommendations : European Waste Catalogue code(s) (Decision 2001/118/CE): 13 02 05* (mineral-based no

European Waste Catalogue code(s) (Decision 2001/118/CE): 13 02 05* (mineral-based nonchlorinated engine, gear and lubricating oils). This EWC code is only a general indication, and takes into account the original composition of the product and its intended use. The user has the responsibility of choosing the right EWC code, considering the actual use of the product,

alterations and contaminations.

Additional information : Empty containers may contain combustible product residues. Do not cut, weld, drill, burn or

incinerate empty containers or drums, unless they have been cleaned, and declared safe.

Ecology - waste materials : The product as it is does not contain halogenated substances.

EURAL code (EWC) : 13 02 05* - Mineral-based non-chlorinated engine, gear and lubricating oils

SECTION 14: Transport information

In accordance with ADN / ADR / IATA / IMDG / RID

ADR	IMDG	IATA	ADN	RID		
14.1. UN number						
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated		
14.2. UN proper shippi	ng name					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated		
14.3. Transport hazard	class(es)					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated		
14.4. Packing group	14.4. Packing group					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated		
14.5. Environmental hazards						
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated		
None.						

14.6. Special precautions for user

- Overland transport

Not regulated

- Transport by sea

Not regulated

- Air transport

Not regulated

- Inland waterway transport

Not regulated

- Rail transport

Not regulated

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According to Regulation (EU) No. 830/2015

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

IBC code : Not applicable.

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

The fellowing rectrictions are applicable according to runles revised the responsibility (20)	10 10017=0001
3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008	Eni i-Sint 5W-40 - Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts - Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts - Calcium long chain alkaryl sulfonate
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Distillates (petroleum), hydrotreated heavy paraffinic - Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts - Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts - Calcium long chain alkaryl sulfonate
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Benzenesulfonic acid, methyl-, mono-C20-24- branched alkyl derivs., calcium salts - Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts - Calcium long chain alkaryl sulfonate

No ingredients are included in the REACH Candidate list (> 0,1 % m/m).

Contains no REACH Annex XIV substances

Other information, restriction and prohibition regulations

: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), (et seguens), Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (et sequens). Directives 89/391/CEE, 89/654/CEE 89/655/CEE, 89/656/CEE, 90/269/CEE, 90/270/CEE, 90/394/CEE, 90/679/CEE, 93/88/CEE, 95/63/CE, 97/42/CE, 98/24/CE, 99/38/CE, 99/92/CE, 2001/45/CE, 2003/10/CE, 2003/18/CE (Health and safety on the workplace). Directive 2012/18/CE (Control of major-accident hazards involving dangerous substances). Directive 2004/42/CE (Limitation of emissions of Volatile Organic Compounds). Directive 98/24/EC (protection of the health and safety of workers from the risks related to chemical agents at work). Directive 92/85/CE (measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding). Substances Depleting the Ozone layer (1005/2009) Annex I Substances (ODP). Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC. Regulation EU (649/2012) - Export and Import of hazardous chemicals (PIC).

15.1.2. National regulations

National adoption of EU Directives concerning health and safety on the workplace.

National adoption of EU Directives concerning control of major-accident hazards involving dangerous substances (2012/18/CE).

Relevant national laws on prevention of water pollution.

Relevant national laws on protection of the health of pregnant workers (National adoption of Dir. 92/85/EEC).

National adoption of Directives 75/439/CEE - 87/101/CEE concerning disposal of used oils.

France

Maladies professionelles (F) : RG 36 - Affections provoquées par les huiles et graisses d'origine minérale ou de synthèse

Germany

Reference to AwSV : Water hazard class (WGK) (D) 1, Slightly hazardous to water (Classification according to

AwSV, Annex 1)

WGK remark : Classification based on the components in compliance with Verwaltungsvorschrift

wassergefährdender Stoffe (VwVwS)

VbF class (D) : Not applicable.

Storage class (LGK) (D) : LGK 10 - Combustible liquids

Employment restrictions : Employment prohibitions or restrictions on the protection of young people at work according to

§ 22 JArbSchG in the case of formation of hazardous substances have to be observed.

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

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Other information, restrictions and prohibition regulations

: TRGS 900: Occupational Exposure Limits

TRGS 800: Fire protection measures

TRGS 555: Working instruction and information for workers

TRGS 402: Identification and Assessment of the Risks from Activities involving Hazardous

Substances: Inhalation Exposure

TRGS 401: Risks resulting from skin contact - identification, assessment, measures TRGS 400: Hazard assessment for activities involving Hazardous Substances

Netherlands

: C - Minimize discharge Saneringsinspanningen

SZW-lijst van kankerverwekkende stoffen : None of the components are listed SZW-lijst van mutagene stoffen : None of the components are listed : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling

: None of the components are listed

: None of the components are listed

Denmark

Danish National Regulations : Young people under 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with it

15.2. **Chemical safety assessment**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP] No chemical safety assessment has been carried out

A chemical safety assessment has been carried out for the following components of this mixture:

Distillates (petroleum), hydrotreated heavy paraffinic

Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts

SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Notes
1.1	Formula	Modified	Formulation number
2.1	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]	Removed	
2.2	CLP Signal word	Removed	
2.2	Precautionary statements (CLP)	Removed	
2.2	Hazard statements (CLP)	Removed	
3	Composition/information on ingredients	Modified	Formulation
4.1	First-aid measures after eye contact	Modified	
4.1	First-aid measures after ingestion	Modified	
7.1	Precautions for safe handling	Modified	
8.1	DNEL/DMEL and PNEC values	Added	
9.1	Density	Removed	
9.1	Melting point	Removed	
9.1	Viscosity, kinematic	Modified	
9.1	Flash point	Modified	
10.4	Conditions to avoid	Modified	
11.1	Additional information	Modified	
11.1	Additional information	Modified	
12.1	Ecology - general	Modified	
16	Abbreviations and acronyms	Modified	

Abbreviations and acronyms:

	Complete text of the H phrases quoted in this Safety Data Sheet. These phrases are reported here for information only, and MAY NOT correspond to the classification of the product.	
	N/A = not applicable	
	N/D = not available	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	

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According to Regulation (EU) No. 830/2015

ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Effective concentration for 50 percent of test population (median effective concentration)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration for 50 percent of test population (median lethal concentration)
LD50	Lethal dose for 50 percent of test population (median lethal dose)
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals, Regulation (EC) No 1907/2006
RID	Regulation concerning the International Carriage of Dangerous Goods by Railways
SDS	Safety Data Sheet
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

Data sources

Training advice

Other information

- : This Safety Data Sheet is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers.
- Provide adequate training to professional operators for the use of PPEs, according to the information contained in this Safety Data Sheet.
- : Do not use the product for any purposes that have not been advised by the manufacturer. In exceptional cases (i.e prolunged storage in tanks contaminated with water, and presence of anaerobic sulfate-reducing microbial colonies), the product may undergo a degradation and generate small amounts of sulfur compounds, including H2S. This situation is especially relevant in all those circumstances which require to enter a confined space, with direct exposure to the vapours. If this possibility is suspected, a specific assessment of inhalation risks from the presence of H2S in confined spaces must be made, to help determine prevention measures and controls (i.e. PPE) appropriate to local circumstances, and adequate emergency procedures. If there is any suspicion of inhalation of H2S (hydrogen sulphide), Rescuers must wear breathing apparatus, belt and safety rope, and follow rescue procedures. Send patient to hospital. Immediately begin artificial respiration if breathing has ceased. Administer oxygen if necessary.

Full text of H- and EUH-statements:

	·······
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1B	Skin sensitisation, category 1B
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.
EUH208	Contains Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs, calcium salts, Calcium long chain alkaryl sulfonate . May produce an allergic reaction.
EUH210	Safety data sheet available on request.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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