

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878 Revision date: 1/29/2025 Supersedes: 8/9/2024 Version: 1.1

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

1.1. Product identifier

Product form : Mixture

: Eni i-Sint 5W-40 Trade name

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

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

Function or use category : Lubricants and additives

Uses advised against

Recommended use are listed above; other uses are not recommended unless an assessment has provided that risks are controlled.

1.3. Details of the supplier of the safety data sheet

Enilive S.p.A, Viale Giorgio Ribotta 51, 00144 Rome, ITALY, Tel. +39 06 59821

Competent person responsible for the safety data sheet (Reg. EC nr. 1907/2006): SDS.Enilive@enilive.com

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1.4. Emergency telephone number

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

Poison Center

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazardous to the aquatic environment – Chronic Hazard, H412

Category 3

Full text of H- and EUH-statements: see section 16

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]

CLP Signal word

Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP) : P273 - Avoid release to the environment.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

FUH-statements : EUH208 - Contains Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated,

Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs, calcium salts. May

produce an allergic reaction.

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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 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.

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
Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII	Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7), Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6), Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated, Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts (722503-68-6), Dodecylphenol, mixed isomers, branched (121158-58-5)(¹)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7), Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6), Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated, Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts (722503-68-6), Dodecylphenol, mixed isomers, branched (121158-58-5)(¹)

(1) Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

Component		
Substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	Dodecylphenol, mixed isomers, branched (121158-58-5)(1)	
Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7), Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6), Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated, Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts (722503-68-6)	

(1) Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Comments

: Composition/ Information on ingredients: Mixture of hydrocarbons

Additives

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]
Distillates (petroleum), hydrotreated heavy paraffinic (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
Mineral base oil, severely refined (For identification of the substance, see note [*], see note [***])	EC-No.: N/A	10 - 20	Not classified
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
Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated (Additive)	EC-No.: 953-650-0 REACH-no: N/A	0,5 - 1,5	Skin Sens. 1B, H317 Repr. 2, H361d
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. 1B, H317
phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched (Additive) Substance included in REACH Candidate List (Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP))	CAS-No.: 121158-58-5 EC-No.: 310-154-3 EC Index-No.: 604-092-00-9 REACH-no: 01-2119513207-	< 0.045	Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360F Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated (Additive)	EC-No.: 953-650-0 REACH-no: N/A	(2 ≤ C < 100) Skin Sens. 1B; H317 (17.15 ≤ C < 100) Repr. 2; H361d

Comments

: Note [*]:

this product may be formulated with one or more of the following severely refined mineral base oils :

EC n. 265-090-8, EC n. 265-091-3, EC n. 265-096-0, EC n. 265-097-6, EC n. 265-098-1, EC n. 265-101-6, EC n. 265-155-0, EC n. 265-156-6, EC n. 265-157-1, EC n. 265-158-7, EC n. 265-159-2, EC n. 265-160-8, EC n. 265-166-0, EC n. 265- 169-7, EC n. 265-176-5, EC n. 276-736-3, EC n. 276-737-9, EC n. 276-738-4, EC n. 278-012-2; REACH n. 01-2119484627-25, REACH n. 01-2119487077- 29, REACH n. 01-2119471299-27.

All these substances have a value < 3 % wt of DMSO extract, according to IP 346 (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. 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- and EUH-statements: see section 16

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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.

First-aid measures after skin contact

Take off contaminated clothing and shoes. Wash thoroughly with soap and water. If skin

irritation or rash occurs, get medical advice/attention. In case of burns, cool affected part with cold running water for at least 10 min. Cover with gauze or clean cloth. Ask for medical assistance or bring to a hospital. Do not apply salves or other substances, unless

by doctor's advice. 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 burns, cool affected part with cold running water for at least 10 min. Cover with gauze or

clean cloth. Ask for medical assistance or bring to a hospital. Do not apply salves or other

low, to avoid the risk of aspiration into the lungs. Do not give anything by mouth to an

substances, unless by doctor's advice.

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

unconscious person.

4.2. Most important symptoms and effects, 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.

 Contact with eyes may cause temporary reddening and irritation. Contact with hot product or vapours may cause burns.

Symptoms/effects after ingestion : Accidental ingestion of small quantities of the product may cause nausea, discomfort and gastric disturbances.

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 medical attention and special treatment needed

Obtain medical attention if casualty has an altered state of consciousness or if symptoms do not resolve. Seek medical attention in all cases of serious burns. 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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Symptoms/effects after eye contact

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 classified 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 g/m³ of air. Heat may build pressure in tank and containers, rupturing closed vessels, spreading fire and increasing risk of burns and injuries. Vapours are heavier than air, spread along floors and form explosive mixtures with air.

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Hazardous decomposition products in case of fire

: 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. BOx.

5.3. Advice for firefighters

Firefighting instructions

: Shut off source of product, if possible. Move undamaged containers from immediate hazard area if it can be done safely. 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

: Wear personal protection equipment. (see chapter 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.

Other information

: 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.

For non-emergency personnel

Protective equipment

Emergency procedures

: See Section 8.

: 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.

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

: If required, notify relevant authorities according to all applicable 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.

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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.

Methods for cleaning up

 Transfer recovered product and other materials to suitable tanks or containers and store/dispose according to relevant regulations.

Other information

: Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air/water 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. Before entering storage tanks and commencing any operation in a confined area (e.g. tunnels), carry out an adequate cleanup, and check the atmosphere for oxygen content, flammability, and the presence of sulphur compounds. 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. See also Section 16, "Other information".

Hygiene measures

Ensure that proper housekeeping measures are in place. 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 re-use 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. Separate working clothes from town clothes. Launder separately.

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

: Strong oxidizing agents.

Storage area

: Storage area layout, tank design, equipment and operating procedures must comply with the relevant European, national or local legislation. Storage installations/areas should be designed with adequate bunds 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. Keep only in the original container or in a suitable container for this kind of product.

Packaging materials

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

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Germany

Storage class (LGK, TRGS 510) : LGK 10 - Combustible liquids

Switzerland

Storage class (LK) : LK 10/12 - Liquids

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
Austria - Occupational Exposure Limits		
MAK (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Belgium - Occupational Exposure Limits		
OEL TWA	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Denmark - Occupational Exposure Limits		
OEL TWA	1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
OEL STEL	2 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Hungary - Occupational Exposure Limits		
AK (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Netherlands - Occupational Exposure Limits		
MAC TGG 8h (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Spain - Occupational Exposure Limits		
VLA-ED (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
VLA-EC (mg/m³)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Sweden - Occupational Exposure Limits		
NGV (OEL TWA)	1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
KGV (OEL STEL)	3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
United Kingdom - Occupational Exposure Limits		
WEL TWA (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
WEL STEL (OEL STEL)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
USA - ACGIH - Occupational Exposure Limits		
ACGIH OEL TWA	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
ACGIH OEL STEL	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Mineral base oil, severely refined		
Austria - Occupational Exposure Limits		
MAK (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
Belgium - Occupational Exposure Limits		
OEL TWA	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	

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Mineral base oil, severely refined	Mineral base oil, severely refined		
Denmark - Occupational Exposure Limits			
OEL TWA	1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
OEL STEL	2 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
Hungary - Occupational Exposure Limits			
AK (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
Netherlands - Occupational Exposure Limits			
MAC TGG 8h (mg/m³)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
Spain - Occupational Exposure Limits			
VLA-ED (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
VLA-EC (mg/m³)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
Sweden - Occupational Exposure Limits			
NGV (OEL TWA)	1 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
KGV (OEL STEL)	3 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
United Kingdom - Occupational Exposure Limits			
WEL TWA (OEL TWA)	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
WEL STEL (OEL STEL)	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
USA - ACGIH - Occupational Exposure Limits			
ACGIH OEL TWA	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
ACGIH OEL STEL	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated			
Belgium - Occupational Exposure Limits			
OEL TWA	5 mg/m³		
Ireland - Occupational Exposure Limits			
OEL TWA	4 mg/m³		
USA - ACGIH - Occupational Exposure Limits			
ACGIH OEL TWA	5 mg/m³		

Recommended monitoring procedures

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.

Air contaminants formed

Applicable OEL and BLV for air contaminants : None known

DNEL and PNEC

Eni i-Sint 5W-40	
DNEL/DMEL (additional information)	
Additional information Not applicable	
PNEC (additional information)	
Additional information	Not applicable

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()		
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	1 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	2.7 mg/m³	
Long-term - local effects, inhalation	5.6 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	0.74 mg/kg bodyweight/day	
Long-term - local effects, inhalation	1.2 mg/m³/day (DNEL, Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
PNEC (Oral)		
PNEC oral (secondary poisoning)	9.33 mg/kg food	
Phosphorodithioic acid, mixed O,O-bis(sec-B	u and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)	
DNEL/DMEL (Workers)		
Acute - systemic effects, dermal	100 mg/kg bodyweight/day	
Acute - systemic effects, inhalation	496.4 mg/m³	
Long-term - systemic effects, dermal	10.42 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	2.93 mg/m³	
DNEL/DMEL (General population)		
Acute - systemic effects, dermal	50 mg/kg bodyweight/day	
Acute - systemic effects, inhalation	198.6 mg/m³	
Acute - systemic effects, oral	29 mg/kg bodyweight/day	
Long-term - systemic effects,oral	0.21 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	11.75 mg/m³	
Long-term - systemic effects, dermal	2.1 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	4 μg/l	
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	0.0548 mg/kg dwt	
PNEC (Oral)		
PNEC oral (secondary poisoning)	8.33 mg/kg food	
PNEC (STP)		
PNEC sewage treatment plant	3.8 mg/l	
Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	2 mg/kg bodyweight/day	
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Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated		
Long-term - systemic effects, inhalation	14 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	1 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	3.5 mg/m³	
Long-term - systemic effects, dermal	1 mg/kg bodyweight/day	
DNEL/DMEL (additional information)		
Additional information	Not yet determined.	
PNEC (Water)		
PNEC aqua (freshwater)	0.36 mg/l	
PNEC aqua (marine water)	0.036 mg/l	
PNEC aqua (intermittent, freshwater)	0.493 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	6.37 mg/kg dwt	
PNEC sediment (marine water)	0.637 mg/kg dwt	
PNEC (Soil)		
PNEC soil	1.06 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	71.4 mg/l	
PNEC (additional information)		
Additional information	Not derived - Not classified as hazardous for environment	
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.	
Control banding		
Control banding	: None known	

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Before entering storage tanks and commencing any operation in a confined area (e.g. tunnels), check the atmosphere for oxygen content, presence of hydrogen sulphide (H2S) and SOx, and flammability. See also Section 16, "Other information".

Personal protection equipment

Personal protective equipment (for industrial or professional use):

Face shield. Gloves. Protective clothing. Safety glasses. Safety shoes or boots. High gas/vapour concentration: gas mask with filter for organic vapours (A) or organic vapours/H2S (A+B).

Personal protective equipment symbol(s):













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Eye and face protection

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 protection

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.

Hand protection:

Chemical resistant gloves (according to European standard NF ISO 374-1 or equivalent). 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. Personal hygiene is a key element for an effective hand care. Gloves must be worn only with clean hands. After wearing gloves, hands must be carefully washed and dried.

Respiratory protection

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. Combined gas/dust mask with filter type: EN 14387. 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). Open or well ventilated spaces: if the product is handled without adequate containment means for the vapours: use full or half-face masks with filter for hydrocarbon vapours (AX). (EN 136/140/145)

Thermal hazards

Thermal hazard protection:

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

Environmental exposure controls

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:

Wear protective gloves. Ensure adequate ventilation.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Colour : Yellow-brown.
Appearance : Liquid, bright & clear.
Odour : Slight odour of petroleum.

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

Melting point : Not applicable

Freezing point : Lack of data (on mixture / components of the mixture) - Data not available

Softening point : -42 °C (ASTM D 5950) Boiling point : > 230 °C (CAS 64742-54-7)

Flammability : Not flammable Lower explosion limit : 45 g/m³

Upper explosion limit : Lack of data (on mixture / components of the mixture) - Data not available

Flash point : 210 °C (ASTM D 93)
Auto-ignition temperature : > 300 °C (CAS 64742-54-7)

Decomposition temperature : Lack of data (on mixture / components of the mixture) - Data not available pH : Lack of data (on mixture / components of the mixture) - Data not available

Viscosity, kinematic : 87 mm²/s (40 °C) (ASTM D 445)

Viscosity, dynamic : 5900 mPa·s (-30°C, ASTM D 5293)

Solubility : Water: Immiscible and insoluble

Log Kow : Not applicable for mixtures

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Log Pow : Not applicable for mixtures

Vapour pressure : Lack of data (on mixture / components of the mixture) - Data not available Vapour pressure at 50°C : Lack of data (on mixture / components of the mixture) - Data not available

Density : 856 kg/m³ (15°C, ASTM D 4052)

Relative density : Lack of data (on mixture / components of the mixture) - Data not available Relative vapour density at 20°C : Lack of data (on mixture / components of the mixture) - Data not available

Particle characteristics : Not applicable

9.2. Other information

Information with regard to physical hazard classes

Explosion limits : ≥ 45 g/m³ (Aerosol)

Other safety characteristics

Relative evaporation rate (butylacetate=1) : Negligible.

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.

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.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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 paraffinic (64742-54-7)		
LD50 oral rat	> 5000 mg/kg (OECD 401)	
LD50 dermal rat	> 5000 mg/kg (OECD 402)	
LC50 Inhalation - Rat	> 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)	

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Mineral base oil, severely refined		
LC50 Inhalation - Rat	> 5 mg/l/4h (OECD 403)	
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)		
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
Alkyl (C18-C28) toluenesulfonic acid, calcium	salts, borated	
LD50 oral rat	3640 mg/kg bodyweight	
LD50 dermal rabbit	> 2000 mg/kg bodyweight	
phenol, dodecyl-, branched; phenol, 2-dodecy	yl-, branched; phenol, 3-dodecyl-, branched (121158-58-5)	
LD50 oral rat	2200 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)	
LD50 dermal rabbit	15000 mg/kg bodyweight	
	Not classified (Based on available data, the classification criteria are not met) pH: Lack of data (on mixture / components of the mixture) - Data not available	
Additional information : Distillates (petroleum), hydrotreated heavy pa	(according to composition)	
pH	Not applicable	
Mineral base oil, severely refined		
рН	Not applicable	
Phosphorodithioic acid, mixed O,O-bis(sec-B	u and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)	
pH	≈ 7 Temp.: 25 °C Concentration: (≈)0,00116 other: Remarks on result: 'other:'	
	Not classified (Based on available data, the classification criteria are not met). pH: Lack of data (on mixture / components of the mixture) - Data not available (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").	
Distillates (petroleum), hydrotreated heavy pa	araffinic (64742-54-7)	
рН	Not applicable	
Mineral base oil, severely refined		
рН	Not applicable	
Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)		
pH	≈ 7 Temp.: 25 °C Concentration: (≈)0,00116 other: Remarks on result: 'other:'	
Respiratory or skin sensitisation :	Skin sensitization: Not classified (Based on available data, the classification criteria are not met). Respiratory sensitization: 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 : Carcinogenicity :	(according to composition) Not classified (Based on available data, the classification criteria are not met)	

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Additional information	: (according to composition) All the mineral base oils contained in this product have a value < 3 % wt of DMSO extract, according to IP 346 (Nota L - Annex VI Reg (CE) 1272/2008, # 1.1.3)
Reproductive toxicity Additional information	Not classified (Based on available data, the classification criteria are not met) (according to composition)
	This product contains components with a Specific Concentration Limit (SCL).
phenol, dodecyl-, branched; phenol, 2-dod	decyl-, branched; phenol, 3-dodecyl-, branched (121158-58-5)
NOAEL (animal/male, F1)	1.5 mg/kg
NOAEL (animal/female, F1)	15 mg/kg (OECD 416)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (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	
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)
Phosphorodithioic acid, mixed O,O-bis(se	c-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)
NOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
Alkyl (C18-C28) toluenesulfonic acid, calc	ium salts, borated
NOAEL (oral, rat, 90 days)	300 mg/kg bodyweight/day
Aspiration hazard Additional information	 Not classified (Based on available data, the classification criteria are not met) (according to composition) Viscosity, kinematic: > 20,5 mm2/s (40 °C) (ASTM D 445)
Eni i-Sint 5W-40	
Viscosity, kinematic 87 mm²/s (40 °C) (ASTM D 445)	
Distillates (petroleum), hydrotreated heavy	y paraffinic (64742-54-7)
Viscosity, kinematic 17.9 mm²/s (40 °C) (ASTM D 445)	
Mineral base oil, severely refined	
Viscosity, kinematic	> 21 mm²/s
Hydrocarbon	Yes
11.2. Information on other hazards	
Endocrine disrupting properties	
Adverse health effects caused by endocrine disrupting properties	: None known,The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance w the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %
Component	
phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched (121158-5)	The substance is identified for having endocrine disrupting properties but there is no additional data available (see section 2.3)

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Other information

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

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Ecology - general

: 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, and in normal conditions at ambient temperature the concentration in the air is negligible. A significant concentration may build up only in case of sprays and mists. In these cases overexposure to mists (e.g. through prolonged use in confined insufficiently ventilated spaces) may cause irritation to airways, nausea and distribute.

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)

Hazardous to the aquatic environment, short-term

: Not classified (Based on available data, the classification criteria are not met)

(acute)

Hazardous to the aquatic environment, long-term

(chronic)

: Harmful to aquatic life with long lasting effects.

(chronic)		
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)	
Phosphorodithioic acid, mixed O,O-bis(sec-B	u and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)	
LC50 fish 1	46 mg/l Test organisms (species): Cyprinodon variegatus	
Alkyl (C18-C28) toluenesulfonic acid, calcium	salts, borated	
LC50 fish 1	180 mg/l (Oryzias latipes)	
EC50 Daphnia 1	85.4 mg/l	
EC50 72h - Algae [1]	49.3 mg/l (Desmodesmus subspicatus)	
NOEC (chronic)	25 mg/l (21d)	
Dodecylphenol, mixed isomers, branched (121158-58-5)		
LC50 fish 1	40 mg/l (Pimephales promelas)	
EC50 Daphnia 1	92.7 μg/l Test organisms (species): Daphnia magna	
EC50 other aquatic organisms 1	> 0.58 mg/l (96h, Mysidopsis Bahia)	
EC50 72h - Algae [1]	> 0.765 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
EC50 72h - Algae [2]	0.36 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)	
ErC50 (algae)	0.36 mg/l (21d)	
LOEC (chronic)	0.012 mg/l Test organisms (species): Daphnia magna Duration: '21 d'	

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Mobility in soil

Ecology - soil

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Dodecylphenol, mixed isomers, branched (12	1158-58-5)	
NOEC (chronic)	0.0037 mg/l (21d)	
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 biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions.	
Distillates (petroleum), hydrotreated heavy pa	rraffinic (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.	
Phosphorodithioic acid, mixed O,O-bis(sec-B	u and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6)	
Persistence and degradability	Rapidly degradable	
Alkyl (C18-C28) toluenesulfonic acid, calcium	salts, borated	
Persistence and degradability	Readily biodegradable.	
Benzenesulfonic acid, methyl-, mono-C20-24-	branched alkyl derivs., calcium salts (722503-68-6)	
Persistence and degradability	Rapidly degradable	
Dodecylphenol, mixed isomers, branched (121158-58-5)		
Persistence and degradability	Rapidly degradable	
Biodegradation	25 % (28 d, OECD TG 301 B)	
12.3. Bioaccumulative potential		
Eni i-Sint 5W-40		
Log Pow	Not applicable for mixtures	
Log Kow	Not applicable for mixtures	
Bioaccumulative potential	Not established.	
Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated		
Log Pow	2.7	
Dodecylphenol, mixed isomers, branched (12	1158-58-5)	
Bioconcentration factor (BCF REACH)	794.33	
Log Kow	7.14	
12.4. Mobility in soil		

EN (English)

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Not determined

No data available.

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12.5. Results of PBT and vPvB assessment

Fni		

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

Results of PBT-vPvB assessment

The components in this formulation do 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)

Component

Substance(s) not meeting the PBT criteria of REACH regulation, in accordance with Annex XIII

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7), Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6), Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated, Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts (722503-68-6), Dodecylphenol, mixed isomers, branched (121158-58-5)(1)

Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII

Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7), Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts (68784-31-6), Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated, Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts (722503-68-6), Dodecylphenol, mixed isomers, branched (121158-58-5)(1)

(1) Substance(s) in concentration below 0.1 % and displayed on a voluntary basis

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

Component

Dodecylphenol, mixed isomers, branched (121158-58- Has an endocrine mode of action, i.e. it alters the function(s) of the endocrine system

12.7. 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 dumping on the ground, or 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 non-chlorinated 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, bore, burn or incinerate emptied containers, unless they have been cleaned and declared safe.

Ecology - waste materials EURAL code (EWC)

- The product as it is does not contain halogenated substances.
- 13 02 05* Mineral-based non-chlorinated engine, gear and lubricating oils

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SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	umber			
Not regulated for transport				
14.2. UN proper shippin	g name			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard	14.3. Transport hazard class(es)			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
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

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

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

EU-Regulations

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 sequens). 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). POP (2019/1021) - Persistent Organic Pollutants. Regulation EU (649/2012) -Export and Import of hazardous chemicals (PIC). Commission Delegated Regulation (EU) 2017/2100. Commission Regulation (EU) 2018/605.

REACH Annex XVII (Restriction List)

EU restriction list	EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description	
3(b)	Distillates (petroleum), hydrotreated heavy paraffinic; Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts; Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated; Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs., calcium salts; Dodecylphenol, mixed isomers, branched	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	
3(c)	Eni i-Sint 5W-40; Phosphorodithioic acid, mixed O,O-bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts; Dodecylphenol, mixed isomers, branched	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	
30.	Dodecylphenol, mixed isomers, branched	Substances which are classified as reproductive toxicant category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 5 or Appendix 6, respectively.	

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List in concentrations ≥ 0.1 % or SCL: Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP) (EC 310-154-3, CAS 121158-58-5)

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PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

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 Directive 2008/98/CE concerning disposal of used oils.

Finland

: Occupational Safety and Health Act No. 738/2002. Finnish National Regulations

France

Maladies professionelles (F)	
Code	Description
RG 36	Diseases caused by oils and fats of mineral or synthetic origin

Germany	
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.
National Rules and Recommendations	 TRGS 400: Hazard assessment for activities involving Hazardous Substances. TRGS 401: Risks resulting from skin contact - identification, assessment, measures. TRGS 402: Identification and Assessment of the Risks from Activities involving Hazardous Substances: Inhalation Exposure. TRGS 500: Protective measures. TRGS 555: Working instruction and information for workers. TRGS 800: Fire protection measures. TRGS 900: Occupational Exposure Limits. TRGS 907: List of sensitizing substances and activities with sensitizing substances.
VbF class (D)	: Not applicable.
Water hazard class (WGK) (D)	: WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).
WGK remark	 Classification is carried out on the basis of the Ordinance on facilities for handling substances that are hazardous to water (Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (AwSV)) of 18 April 2017 (BGBI 2017, Teil I, Nr. 22, Seite 905).

Hazardous Incident Ordinance (12. BImSchV)

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

Netherlands

: C - Minimize discharge Saneringsinspanningen

SZW-lijst van kankerverwekkende stoffen : Distillates (petroleum), hydrotreated heavy paraffinic, Phosphorodithioic acid, mixed O,O-

bis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts, Dodecylphenol, mixed isomers,

branched are listed

SZW-lijst van mutagene stoffen : Distillates (petroleum), hydrotreated heavy paraffinic, Phosphorodithioic acid, mixed O,Obis(sec-Bu and 1,3-dimethylbutyl) esters, zinc salts, Dodecylphenol, mixed isomers,

branched are listed

1/29/2025 (Revision date) EN (English) 20/23

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SZW-lijst van reprotoxische stoffen - Borstvoeding

SZW-lijst van reprotoxische stoffen –

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen - Ontwikkeling

: None of the components are listed

: Dodecylphenol, mixed isomers, branched is listed

52VV-lijst van reprotoxische stollen – Ontwikkeling

: None of the components are listed

Norway

Norwegian National Regulations

: Working Environment Act (LOV-2005-06-17 NO. 62).

People under the age of 18 may not work with this product at all.

Sweden

Swedish National Regulations

: This product is in compliance with Ordinance 1998:944.

Work Environment Act (1977: 1160).

Chemical Hazards in the Working Environment (AFS 2011:19).

Poland

Polish National Regulations

: Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).

Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).

The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).

Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).

Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).

Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).

The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)

Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended). Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).

ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)

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

Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated

SECTION 16: Other information

Indication of changes		
Section	Changed item	Comments
2.2	EUH-statements	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.

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Abbreviations and	acronyms:
	N/D = not available
	N/A = not applicable
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
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CAS-No.	Chemical Abstract Service number
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)
EC-No.	European Community number
ED	Endocrine disruptor
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
OEL	Occupational Exposure Limit
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
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

Data sources

: 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.

Training advice

: Provide adequate training to professional operators for the use of PPEs, according to the information contained in this Safety Data Sheet.

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Other information

: Do not use the product for any purposes that have not been advised by the manufacturer. 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. 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. This situation is especially relevant for those operations which involve direct exposure to the vapours in the interior of tanks or other confined spaces. Therefore, it is very important to follow the above mentioned precautionary measures also with used oils.

Full text of H- and EUH-statements:		
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1	
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2	
Asp. Tox. 1	Aspiration hazard, Category 1	
EUH208	Contains Alkyl (C18-C28) toluenesulfonic acid, calcium salts, borated, Benzenesulfonic acid, methyl-, mono-C20-24-branched alkyl derivs, calcium salts. May produce an allergic reaction.	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
H304	May be fatal if swallowed and enters airways.	
H314	Causes severe skin burns and eye damage.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H360F	May damage fertility.	
H361d	Suspected of damaging the unborn child.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H411	Toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
Repr. 1B	Reproductive toxicity, Category 1B	
Repr. 2	Reproductive toxicity, Category 2	
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C	
Skin Sens. 1B	Skin sensitisation, category 1B	

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Aquatic Chronic 3	H412	Calculation method

Safety Data Sheet (SDS), EU

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.