

# Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878 Revision date: 8/5/2025 Supersedes: 12/27/2024 Version: 1.3

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

#### 1.1. Product identifier

Product form : Mixture

Trade name : Eni i-Sigma monograde SAE 50

Product code : 1090
Type of product : Lubricants
Formula : 0019-2012
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 : Used in closed systems

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

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 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.

 $\ensuremath{\mathsf{P501}}$  - Dispose of contents and container to according to national or local regulations.

EUH-statements : EUH208 - Contains Amides, C18 (unsaturated). May produce an allergic reaction.

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#### 2.3. Other hazards

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. In case of contact with eyes, this product may cause irritation. If the product is handled or used at high temperature, contact with hot product or vapours may cause burns. 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. Do not wait for symptoms to develop.

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	Residual oils (petroleum,) solvent-refined (64742-01-4), Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0), Phenol, dodecyl-, branched, sulfurized (96152-43-1), Dodecylphenol, mixed isomers, branched (121158-58-5)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Residual oils (petroleum,) solvent-refined (64742-01-4), Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0), Phenol, dodecyl-, branched, sulfurized (96152-43-1), Dodecylphenol, mixed isomers, branched (121158-58-5)

The mixture contains substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are 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

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)
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	Residual oils (petroleum,) solvent-refined (64742-01-4), Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0), Phenol, dodecyl-, branched, sulfurized (96152-43-1)

## **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]
Residual oils (petroleum,) solvent-refined (see note [*], see note [**]) substance with national workplace exposure limit(s) (AT, BE, DK, ES, GB, HU, NL, SE)	CAS-No.: 64742-01-4 EC-No.: 265-101-6 EC Index-No.: 649-459-00-4 REACH-no: 01-2119488707- 21	45 - 55	Not classified
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (see note [*], see note [**], see note [***]) substance with national workplace exposure limit(s) (AT, BE, DK, ES, GB, HU, NL, SE)	CAS-No.: 64742-65-0 EC-No.: 265-169-7 EC Index-No.: 649-474-00-6 REACH-no: 01-2119471299- 27	40 - 50	Not classified
Phenol, dodecyl-, branched, sulfurized	CAS-No.: 96152-43-1 EC-No.: 306-115-5 REACH-no: 01-2119524001-62	0.1 - 0.2	Repr. 1B, H360F Aquatic Chronic 4, H413
Amides, C18 (unsaturated)	EC-No.: 931-801-1 REACH-no: 01-2119560613- 41	0.1 – 0.15	Skin Sens. 1B, H317 Aquatic Chronic 3, H412
phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched 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)) substance identified as having endocrine disrupting properties	CAS-No.: 121158-58-5 EC-No.: 310-154-3 EC Index-No.: 604-092-00-9 REACH-no: 01-2119513207- 49	0.1 – 0.15	Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 1B, H360F Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)

Comments : 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)

Note [\*\*\*]:

this product may be formulated with one or more of the following base oils: CAS 74869-22-0/ EC: 278-012-2/ REACH Reg. # 01-2119495601-36-XXXX; CAS 64742-54-7/ EC 265-157-1/ REACH Reg. # 01-2119484627-25-XXXX

Full text of H- and EUH-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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First-aid measures after skin contact : Take off contaminated clothing and shoes. Wash thoroughly with soap and water. If skin

> irritation 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. Body hypothermia must be avoided. 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. Remove contact

> lenses, if present and easy to do. Continue rinsing. 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 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 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 effects, both acute and delayed

Symptoms / injuries (general indications) : Not expected to present a significant hazard under anticipated conditions of normal use. 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 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

dizziness.

Symptoms/effects after skin contact : Contact with hot product may cause thermal burns.

Symptoms/effects after eye contact 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.

# **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 classified as Flammable. The creation of flammable vapour mixtures takes place at temperatures which are higher than normal ambient levels.

Explosion hazard : Heat may build pressure in tank and containers, rupturing closed vessels, spreading fire and

increasing risk of burns and injuries. The vapours are flammable and may form explosive mixtures with air.

Hazardous decomposition products in case of fire : Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. Oxygenated compounds (aldehydes, etc.). POx. ZnOx. CaOx.

# 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

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the fire cannot be controlled, evacuate area.

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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 accidental sprays on hot surfaces or electrical contacts. Avoid direct contact with released material. 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 (AX), or 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.

### 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.

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# **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 and flammability. 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

: Keep away from strong oxidizers.

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, according to the specific

use conditions.

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

Residual oils (petroleum,) solvent-refined (64742-01-4)		
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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Residual oils (petroleum,) solvent-refined (647	742-01-4)		
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® TLV® TWA	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
ACGIH® TLV® STEL	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)		
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)			
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)		

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Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)

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® TLV® TWA	5 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	
ACGIH® TLV® STEL	10 mg/m³ (Mineral base oil mist, severely refined, DMSO extract <3% m/m)	

#### **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-Sigma monograde SAE 50		
DNEL/DMEL (additional information)		
Additional information	Not applicable	
PNEC (additional information)		
Additional information	Not applicable	
Residual oils (petroleum,) solvent-refined (64742-01-4)		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	0.97 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	2.73 mg/m³	
Long-term - local effects, inhalation	5.58 mg/m³	
DNEL/DMEL (General population)		
Long-term - systemic effects,oral	0.74 mg/kg bodyweight/day	
Long-term - local effects, inhalation	1.19 mg/m³	
PNEC (Oral)		
PNEC oral (secondary poisoning)	9.33 mg/kg food	
Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of		

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)

## **DNEL/DMEL (Workers)**

` '	
Long-term - systemic effects, dermal	0.97 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	2.73 mg/m³
Long-term - local effects, inhalation	5.58 mg/m³

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Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)

DNEL/DMEL (General population)		
Long-term - systemic effects,oral 0.74 mg/kg bodyweight/day		
PNEC (Oral)		
PNEC oral (secondary poisoning) 9.33 mg/kg food		
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 that there is a suitable ventilation system. 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 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.

## Personal protective equipment symbol(s):











## 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:

When there is a risk of contact with the skin, use waterproof gloves, resistant to chemical products. Gloves must be felt-lined. 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.

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#### **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. Open or well ventilated spaces: in presence of mists and if the product is handled without adequate containment means: use full or half-face masks with filter for mists/aerosols. (EN 136/140/145). 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.

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

#### Consumer exposure controls:

No special requirements.

## **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 : Not determined Softening point : -15 °C (ASTM D 5950) Boiling point : Not determined : Not flammable Flammability : Not determined Lower explosion limit : Not determined Upper explosion limit : 240 °C (ASTM D 92) Flash point Auto-ignition temperature Not determined Decomposition temperature Not determined

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

Viscosity, kinematic : 265 mm²/s (40 °C) (ASTM D 445)

Viscosity, dynamic : Not determined

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

 $Vapour\ pressure \qquad \qquad :\ < 0.1\ hPa\ (20\ ^{\circ}C)\ (Mineral\ oil,\ ASTM\ D\ 5191)\ (CONCAWE,\ 2010)$ 

Vapour pressure at 50°C : Not determined Critical pressure : Not determined

Density :  $900 \text{ kg/m}^3 (15 \,^{\circ}\text{C}) (ASTM D 4052)$ 

Relative density : Not determined Relative vapour density at 20°C : Not determined Particle characteristics : Not applicable

## 9.2. Other information

#### Information with regard to physical hazard classes

Critical temperature : Not applicable for mixtures

Other safety characteristics

Relative evaporation rate (butylacetate=1) : Negligible.

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# **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.) or alkali metals 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 oxidizing agents.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates: Toxic fumes.

# **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)

Residual oils (petroleum,) solvent-refined (64742-01-4)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat	> 5 mg/l/4h

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).1 (64742-65-0)

finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)		
LD50 oral rat	> 5000 mg/kg bodyweight Not determined	
Phenol, dodecyl-, branched, sulfurized (96152-43-1)		
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)	
LD50 dermal rabbit	> 4000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)	
phenol, dodecyl-, branched; phenol, 2-dodecyl-, 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	

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	-		
Amides, C18 (unsaturated)			
LD50 oral rat	> 5000 mg/kg bodyweight		
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)		
Skin corrosion/irritation  Additional information	<ul> <li>Not classified (Based on available data, the classification criteria are not met)</li> <li>pH: Lack of data (on mixture / components of the mixture) - Data not available</li> <li>(according to composition)</li> </ul>		
hydrocarbons obtained by removal of norm predominantly of hydrocarbons having carb	avy paraffinic; Baseoil— unspecified; [A complex combination of all paraffins from a petroleum fraction by solvent crystallization. It consists on numbers predominantly in the range of C20 through C50 and produces a 00 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)		
pH	Not applicable		
, -	: 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	: (according to composition)		
hydrocarbons obtained by removal of norm predominantly of hydrocarbons having carb	avy paraffinic; Baseoil— unspecified; [A complex combination of all paraffins from a petroleum fraction by solvent crystallization. It consists on numbers predominantly in the range of C20 through C50 and produces a 0 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)		
pH	Not applicable		
Respiratory or skin sensitisation Additional information	Not classified (Based on available data, the classification criteria are not met)     (according to composition)		
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)		
Additional information	(according to composition) Not classified (Based on available data, the classification criteria are not met)		
Carcinogenicity 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	: Not classified (Based on available data, the classification criteria are not met)		
Additional information	<ul> <li>(according to composition)</li> <li>This product contains an UVCB substance (Dodecylphenol, branched, sulfurized) classified as Repr. 1B, H360F according to the criteria of EU</li> <li>This product contains also the following substances: Dodecylphenol, mixed isomers, branched</li> <li>May damage fertility.</li> <li>May damage the unborn child.</li> </ul>		
phenol, dodecyl-, branched; phenol, 2-dode	cyl-, 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 Additional information	Not classified (Based on available data, the classification criteria are not met)     (according to composition)		
STOT-repeated exposure Additional information	<ul><li>Not classified (Based on available data, the classification criteria are not met)</li><li>(according to composition)</li></ul>		
Residual oils (petroleum,) solvent-refined (64742-01-4)			
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)		
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	> 0.98 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)		

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Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)			
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight Not determined		
LOAEL (dermal, rat/rabbit, 90 days)	100 mg/kg bodyweight/day		
NOAEL (oral, rat, 90 days)	< 125 mg/kg bodyweight/day (CAS 64742-04-7, Mobil 1990) (OECD 408)		
NOAEL (dermal, rat/rabbit, 90 days)	≈ 1000 mg/kg bodyweight Not determined		
NOAEC (inhalation,rat, vapour, 90 days)	220 – 980 mg/m³ (Dalbey W, Osimitz T, Kommineni C, Roy T, Feuston M and Yang J 1991 - OECD 412)		
Phenol, dodecyl-, branched, sulfurized (96152-43-1)			
NOAEL (dermal, rat/rabbit, 90 days)	≈ 250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)		
Amides, C18 (unsaturated)			
NOAEL (oral, rat, 90 days)	≈ 10000 mg/kg bodyweight Animal: rat, Animal sex: male		
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-Sigma monograde SAE 50			
Viscosity, kinematic 265 mm²/s (40 °C) (ASTM D 445)			

Distillates (petroleum), solvent-dewaxed heavy paraffinic; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by removal of normal paraffins from a petroleum fraction by solvent crystallization. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C20 through C50 and produces a finished oil with a viscosity not less than 100 SUS at 100 °F (19cSt at 40 °C).] (64742-65-0)

490 mm<sup>2</sup>/s (40 °C) (ASTM D 445)

Viscosity, kinematic 91 – 99 mm²/s (40 °C) (ASTM D 445)

Residual oils (petroleum,) solvent-refined (64742-01-4)

#### 11.2. Information on other hazards

#### **Endocrine disrupting properties**

Viscosity, kinematic

Adverse health effects caused by endocrine disrupting properties

The mixture contains substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are 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, Shows an adverse effect in an intact organism or its progeny, which is a change in the morphology, physiology, growth, development, reproduction or life span of an organism, system or (sub)population that results in an impairment of functional capacity, an impairment of the capacity to compensate for additional stress or an increase in susceptibility to other influences, The adverse effect is a consequence of the endocrine mode of action

# phenol, dodecyl-, branched; phenol, 2-dodecyl-, branched; phenol, 3-dodecyl-, branched (121158-58-5) The substance is identified for having endocrine disrupting properties but there is no additional data available (see section 2.3)

#### Other information

Potential adverse human health effects and symptoms

: Contact with eyes may cause reddening and irritation, Avoid all eye and skin contact and do not breathe vapour and mist

Other information

: None

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# SECTION 12: Ecological information

12.1. Toxicity	
Ecology - general	: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. An uncontrolled release to the environment may 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. Notify authorities if product enters sewers or public waters.
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 dizziness.
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)
Ecology - water	: Harmful to aquatic life.
Hazardous to the aquatic environment, short–term (acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous to the aquatic environment, long-term	: Harmful to aquatic life with long lasting effects.

(chronic)			
Residual oils (petroleum,) solvent-refined (64742-01-4)			
LC50 fish 1	100 mg/l		
EC50 Daphnia 1	10 g/l		
Distillates (petroleum), solvent-dewaxed heav	Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)		
LC50 fish 1	> 100 mg/l (LL 50, Exxon 1995 - OECD 203)		
EC50 Daphnia 1	> 10000 mg/l (EL50, Shell 1988 - OECD 202)		
NOEC (acute)	≥ 100 mg/l (Pseudokirchneriella subcapitata, 72h, OECD 201 - Petro-Canada 2008)		
NOEC chronic fish	≥ 1000 mg/l (Oncorhynchus mykiss, NOELR, 14d - QSAR, Redman, A. et al. 2010)		
NOEC chronic crustacea	≥ 1000 mg/l (21d, OECD 211 - Shell 1994)		
NOEC chronic algae	≥ 100 mg/l (Pseudokirchneriella subcapitata, 72h)		
Phenol, dodecyl-, branched, sulfurized (96152-43-1)			
LC50 fish 1	≥ 500 mg/l (LL50 - 96h)		
EC50 Daphnia 1	≥ 750 mg/l (LL50 - 96h)		
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'		
NOEC (chronic)	0.0037 mg/l (21d)		
Amides, C18 (unsaturated)			
LC50 fish 1	> 0.5 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)		

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Amides, C18 (unsaturated)		
EC50 Daphnia 1	> 100 mg/l Test organisms (species): Daphnia magna	
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)	
NOEC chronic fish	0.105 mg/l	

# 12.2. Persistence and degradability

Eni i-Sigma monograde SAE 50			
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.		
Residual oils (petroleum,) solvent-refined (64)	742-01-4)		
Persistence and degradability	Substance is complex UVCB, The test methods for this endpoint are not applicable to UVCB substances.		
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)			
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.		
Biodegradation	31 % (28d, Exxon 1995)		
Phenol, dodecyl-, branched, sulfurized (96152-43-1)			
Persistence and degradability	Rapidly degradable		
Biodegradation	13.4 % (28d)		
Dodecylphenol, mixed isomers, branched (121158-58-5)			
Persistence and degradability	Rapidly degradable		
Biodegradation	25 % (28 d, OECD TG 301 B)		
Amides, C18 (unsaturated)			
Persistence and degradability	Rapidly degradable		
Biodegradation	62 – 64 % (28d, OECD 301B)		

# 12.3. Bioaccumulative potential

Eni i-Sigma monograde SAE 50			
Log Pow	Not applicable for mixtures		
Log Kow	Not applicable for mixtures		
Bioaccumulative potential Not established.			
Residual oils (petroleum,) solvent-refined (64742-01-4)			
Bioaccumulative potential	The test methods for this endpoint are not applicable to UVCB substances.		
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)			
BCF fish 1	0.4 – 6280 l/kg		
BCF fish 2	3.16 – 71100 l/kg		
Log Pow	1.99 – 18.02		
Log Kow	Not applicable (UVCB)		

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Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)			
Bioaccumulative potential The test methods for this endpoint are not applicable to UVCB substances.			
Dodecylphenol, mixed isomers, branched (121158-58-5)			
Bioconcentration factor (BCF REACH) 794.33			
Log Kow	7.14		
Amides, C18 (unsaturated)			
Log Pow	6.48		

# 12.4. Mobility in soil

Eni i-Sigma monograde SAE 50			
Ecology - soil	No data available.		
Residual oils (petroleum,) solvent-refined (64742-01-4)			
Ecology - soil	The test methods for this endpoint are not applicable to UVCB substances.		
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)			
Log Koc	1.71 – 14.7		
Ecology - soil	The test methods for this endpoint are not applicable to UVCB substances.		
Amides, C18 (unsaturated)			
Log Koc	4.5 – 4.66		

# 12.5. Results of PBT and vPvB assessment

Eni i-Sigma monograde SAE 50			
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	Residual oils (petroleum,) solvent-refined (64742-01-4), Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0), Phenol, dodecyl-, branched, sulfurized (96152-43-1), Dodecylphenol, mixed isomers, branched (121158-58-5)		
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Residual oils (petroleum,) solvent-refined (64742-01-4), Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0), Phenol, dodecyl-, branched, sulfurized (96152-43-1), Dodecylphenol, mixed isomers, branched (121158-58-5)		

#### 12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

: The mixture contains substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are 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. Endocrine disrupting properties (Article 57(f) — environment): Has an endocrine mode of action, i.e. it alters the function(s) of the endocrine system. Shows an adverse effect in nontarget organisms, which is a change in the morphology, physiology, growth, development, reproduction or life span of an organism, system or (sub)population that results in an impairment of functional capacity, an impairment of the capacity to compensate for additional stress or an increase in susceptibility to other influences.

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Component			
Dodecylphenol, mixed isomers, branched (121158-58-5)	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.		
Eni i-Sigma monograde SAE 50			
Other 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.		
Residual oils (petroleum,) solvent-refined (64)	742-01-4)		
Other 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.		
Distillates (petroleum), solvent-dewaxed heavy paraffinic (64742-65-0)			
Other 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. Dispose of empty containers and wastes safely. Sewage disposal recommendations : Dispose of in a safe manner in accordance with local/national regulations. Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed. 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 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 ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				
14.2. UN proper shipping 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

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ADR	IMDG	IATA	ADN	RID
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

# **SECTION 15: Regulatory information**

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

# **EU-Regulations**

#### **REACH Annex XVII (Restriction List)**

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	Phenol, dodecyl-, branched, sulfurized; 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-Sigma monograde SAE 50; Phenol, dodecyl- , branched, sulfurized; 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

## **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)

#### **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)

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#### **POP Regulation (Persistent Organic Pollutants)**

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

#### Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 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 (EU 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 (EC 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

#### **France**

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

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	

National Rules and Recommendations

to § 22 JArbSchG in the case of formation of hazardous substances have to be observed. 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 800: Fire protection measures. TRGS 500: Protective measures.

TRGS 555: Working instruction and information for workers.

TRGS 900: Occupational Exposure Limits.

TRGS 905: List of mutagenic, carcinogenic or teratogenic substances.

TRGS 910: Risk-related concept of measures for activities involving carcinogenic hazardous 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)

Major Accidents Ordinance (12. BlmSchV) : Is not subject to the Major Accidents Ordinance (12. BlmSchV)

**Netherlands** 

Waterbezwaarliikheid : 8 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment

9 - Harmful to aquatic organisms

Saneringsinspanningen : C - Minimize discharge

: Residual oils (petroleum,) solvent-refined, Distillates (petroleum), solvent-dewaxed heavy SZW-lijst van kankerverwekkende stoffen

paraffinic, Phenol, dodecyl-, branched, sulfurized, Dodecylphenol, mixed isomers, branched

SZW-lijst van mutagene stoffen : Residual oils (petroleum,) solvent-refined, Distillates (petroleum), solvent-dewaxed heavy paraffinic, Phenol, dodecyl-, branched, sulfurized, Dodecylphenol, mixed isomers, branched

SZW-lijst van reprotoxische stoffen – Borstvoeding

SZW-lijst van reprotoxische stoffen - Ontwikkeling

SZW-lijst van reprotoxische stoffen -: Dodecylphenol, mixed isomers, branched is listed

: None of the components are listed

Vruchtbaarheid

: None of the components are listed

8/5/2025 (Revision date) EN (English) 19/22

# Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878

#### **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

#### **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

For this mixture a chemical safety assessment has not been carried out

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

Residual oils (petroleum,) solvent-refined Phenol, dodecyl-, branched, sulfurized

## **SECTION 16: Other information**

Indication of changes		
Section	Changed item	Comments
2.2	EUH-statements	Added
3	Composition/information on ingredients	Modified
15.1	REACH Annex XVII	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/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	

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Abbreviations and acronyms:		
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.

Other information

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

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 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3	
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	

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Full text of H- and EUH-statements:		
Repr. 1B	Reproductive toxicity, Category 1B	
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C	
Skin Sens. 1B	Skin sensitisation, category 1B	
H314	Causes severe skin burns and eye damage.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H360F	May damage fertility.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
H412	Harmful to aquatic life with long lasting effects.	
H413	May cause long lasting harmful effects to aquatic life.	
EUH208	Contains Amides, C18 (unsaturated). May produce an allergic reaction.	

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.