

Safety Data Sheet

SDS EU format according to COMMISSION REGULATION (EU) 2020/878 Revision date: 11/19/2024 Version: 1.0

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

1.1. Product identifier Product form : Mixture Trade name : Eni Aster MM/E UFI : 7EX0-X0EN-X00J-XQQ7 Product code : 7356 Type of product : Lubricant Formula : 0171-2024 Product group : Trade product 1.2. Relevant identified uses of the substance or mixture and uses advised against 1.2.1. Relevant identified uses Main use category : Industrial use.Professional use Industrial/Professional use spec Wide dispersive use Use of the substance/mixture • Metalworking fluid Metalworking lubricant Functional fluids Do not use the product for any purposes that have not been advised by the manufacturer. Function or use category : Lubricants and additives 1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

 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]

Aspiration hazard, Category 1

H304

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

Adverse physicochemical, human health and environmental effects

Aspiration into lungs can cause a chemical pneumonia. Contact with eyes may cause temporary reddening and irritation. 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]

Hazard pictograms (CLP)



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CLP Signal word	: Danger
Contains	: Distillates (petroleum), hydrotreated heavy paraffinic
Hazard statements (CLP)	: H304 - May be fatal if swallowed and enters airways.
Precautionary statements (CLP)	: P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor.
	P331 - Do NOT induce vomiting.
	P405 - Store locked up.
	P501 - Dispose of contents and container to according to national or local regulations.

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. 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.

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)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)

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) 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)

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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 [**]) substance with national workplace exposure limit(s) (AT, BE, DK, ES, GB, HU, NL, SE)	CAS-No.: 64742-54-7 EC-No.: 265-157-1 EC Index-No.: 649-467-00-8 REACH-no: 01-2119484627- 25	95 - < 100	Asp. Tox. 1, H304

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)

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 general	: In case of spontaneous vomiting, transport the victim to a hospital, to verify the possibility that the product has been aspired into the lungs.
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 occurs: Get medical advice/attention. In case of contact with hot product, cool affected part with plenty of cold water, and cover with gauze or clean cloth. Call a doctor or bring to an hospital. Do not use salves or ointments, unless directed by doctor. Do not put ice on the burn.
First-aid measures after eye contact	: Rinse eyes thoroughly for at least 15 minutes. Keep eyelids well apart. If irritation, blurred vision or swelling occurs and persists, obtain medical advice from a specialist. In case of contact with hot product, cool affected part with plenty of cold water, and cover with gauze or clean cloth. Call a doctor or bring to an hospital. Do not use salves or ointments, unless directed by doctor.
First-aid measures after ingestion	: Do not induce vomiting to avoid aspiration into the lungs. 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 inconscious, place in the recovery position. In case of spontaneous vomiting, transport the victim to a hospital, to verify the possibility that the product has been aspired into the lungs. Do not give anything by mouth to an unconscious person. In case of ingestion, always assume that aspiration has occurred. Consult a doctor/medical service.
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	: Contact with hot product may cause thermal burns.
Symptoms/effects after eye contact	: Contact with hot product or vapours may cause burns. Contact with eyes may cause temporary reddening and irritation.
Symptoms/effects after ingestion	: Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. The effects may be delayed.
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. In case of ingestion, always assume that aspiration has occurred. Send the casualty immediately to hospital.

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SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media Unsuitable 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). 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 subs	tance or mixture
Fire hazard Explosion hazard Hazardous decomposition products in case of fire	 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 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. Incomplete combustion releases dangerous carbon monoxide, carbon dioxide and other toxic gases. Oxygenated compounds (aldehydes, etc.). NaOx.
5.3. Advice for firefighters	
Firefighting instructions Special protective equipment for firefighters Other information	 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. Personal protection equipment for firefighters (see also sect. 8). In case of a large fire or in confined or poorly ventilated spaces, wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. EN 443. EN 469. EN 659. In case of fire, do not discharge residual product, waste materials and runoff water: collect separately and use a proper treatment.

SECTION 6: Accidental release measure	9S
6.1. Personal precautions, protective equipment	nent 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.
6.1.1. For non-emergency personnel	
Protective equipment	: See Section 8.
Emergency procedures	: Keep non-involved personnel away from the area of spillage. Alert emergency personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and advised, if possible, by a trained, competent person in charge of managing the emergency.
6.1.2. For emergency responders	
Protective equipment	: Small spillages: normal antistatic working clothes are usually adequate. Large spillages: full body suit of chemically resistant and antistatic material. if necessary heat resistant and insulated. Work gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons. Gloves made of PVA are not water-resistant, and are not suitable for emergency use. If contact with hot product is possible or anticipated, gloves should be heat-resistant and thermally insulated. Antistatic non-skid safety shoes or boots, chemical resistant, if necessary heat resistant and insulated. Work helmet. Goggles and /or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory protection: a half or full-face respirator with filter(s) for organic vapours (AX), or a Self-contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. A Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is possible, only SCBA's should be used.
Emergency procedures	: Notify local authorities according to relevant regulations.

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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 an	d cleaning up
For containment :	Contain spilled liquid with sand, earth or other suitable absorbents (non-flammable). Recover free liquid and waste materials in suitable waterproof and oil-resistant containers. Clean contaminated area. Dispose of according to local regulations. If in water: Confine the spillage. Remove from surface by skimming or suitable floating absorbents. Collect recovered product and other waste materials in suitable waterproof, oil resistant containers. Recover or dispose of according to local regulations. Do not use solvents or dispersants, unless specifically advised by an expert, and, if required, approved by local authorities.
Other information :	Recommended measures are based on the most likely spillage scenarios for this material; however, local conditions (wind, air/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 stora	nge
7.1. Precautions for safe handling	
Precautions for safe handling	: This material is combustible, but will not ignite readily. Provide adequate ventilation. Use adequate personal protective equipment as needed. Due to the extremely slippery nature of this material, more care than usual must be exercised in material handling practices to keep off all walking surfaces. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid release to the environment. Emptied containers can contain combustible product residues. Do not cut, weld, drill, burn or incinerate empty containers or drums, unless they have been drained and cleaned. The product may release Hydrogen Sulphide: a specific assessment of inhalation risks from the presence of hydrogen sulphide in tank headspaces, confined spaces, product residue, tank waste and waste water, and unintentional releases should be made to help determine controls appropriate to local circumstances. Before entering storage tanks and commencing any operation in a confined area (e.g. tunnels), carry out an adequate clean-up, and check the atmosphere for oxygen content, flammability, and the presence of sulphur compounds. See also Section 16, "Other information".
Hygiene measures	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.
7.2. Conditions for safe storage, in	cluding 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 Storage area	 Keep away from: strong oxidants. 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.

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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.
Germany	
Storage class (LGK, TRGS 510)	: LGK 10 - Combustible liquids
Switzerland	
Storage class (LK)	: LK 6.1 - Toxic materials
7.3. Specific end use(s)	

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Distillates (petroleum), hydrotreated heavy pa	araffinic (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/m ³)	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)

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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.

No additional information available

No additional information available		
8.1.4. DNEL and PNEC		
Eni Aster MM/E		
DNEL/DMEL (additional information)		
Additional information	Not applicable	
PNEC (additional information)		
Additional information	Not applicable	
Distillates (petroleum), hydrotreated heavy p	paraffinic (64742-54-7)	
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	0.97 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	2.73 mg/m ³	
Long-term - local effects, inhalation	5.58 mg/m ³	
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	

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. 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, carry out an adequate clean-up, and check the atmosphere for oxygen content, flammability, and the presence of sulphur compounds. See also Section 16, "Other information".

setting for an 8-hour work shift, 40 hour work week, as a time weighted average (TWA) or a 15 minute short-term exposure limit (STEL). While also considered to be protective of

health, OELs are derived by a process different from that of REACH.

8.2.2. Personal protection equipment

Personal protective equipment (for industrial or professional use):

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

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Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

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

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

8.2.2.3. 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: if the product is handled without adequate containment: use full or half-face masks with adequate filter for mists and organic vapours. (EN 136/140/145). Combination filter device (DIN EN 141). Closed or confined areas (e.g. tank interiors): the use of protection measures for airways (masks or self-contained breathing apparatus), must be assessed according to the specific activity, as well as level and duration of predicted exposure. (EN 136/140/145)

8.2.2.4. Thermal hazards

Thermal hazard protection:

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

8.2.3. 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:

Not applicable.

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 determined	
Freezing point	: Not determined	
Boiling point	: Not determined	
Flammability	: Not flammable	
Lower explosion limit	: Not determined	
Upper explosion limit	: Not determined	
Flash point	: 195 °C (ASTM D 92)	
Auto-ignition temperature	: Not determined	
Decomposition temperature	: Not determined	
pH	: Not applicable	
Viscosity, kinematic	: 17 mm²/s (40 °C) (ASTM D 445)	

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Solubility	: Water: Immiscible and insoluble
Log Kow	: Not determined
Vapour pressure	: Not determined
Vapour pressure at 50°C	: Not determined
Density	: 880 kg/m³ (15 °C) (ASTM D 4052)
Relative density	: Not determined
Relative vapour density at 20°C	: Not determined
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

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

10.5. Incompatible materials

Strong oxidants.

10.6. Hazardous decomposition products

Thermal decomposition may produce : Toxic fumes.

SECTION 11: Toxicological information		
11.1. Information on hazard classes as define	ed in Regulation (EC) No 1272/2008	
Acute toxicity (oral):Acute toxicity (dermal):Acute toxicity (inhalation):Additional information:	Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met) (according to composition)	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)	
LD50 dermal rabbit	> 5000 mg/kg bodyweight (OECD 403)	
LC50 Inhalation - Rat	> 5 mg/l/4h (OECD 403)	
Skin corrosion/irritation :	Not classified (Based on available data, the classification criteria are not met) pH: Not applicable	
Additional information :	(according to composition)	

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Additional information : (according to composition) Distillates (petroleum), hydrotreated heavy particle (64742-54-7) pH Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) Gern cell mutagenicity : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) Carcinogenicity : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) Carcinogenicity : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) Additional information : (according to composition) STOT-single exposure : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) STOT-single exposure : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) STOT-single exposure : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to com	Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
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Distillates (petroleum), hydrotroated heavy paraffinic (64742-54-7) pH Not applicable Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) Garrinogenicity : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) Carcinogenicity : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) Additional information : (according to composition) STOT-single exposure : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) STOT-single exposure : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) STOT-single exposure : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) Distillates (petroleum), hydrotroated heavy paraffinic (64742-54-7) LOAEL (oral, rat, 90 days) <	Serious eye damage/irritation	
pH Not applicable Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met) Additional Information : (according to composition) Gern cell mutagenicity : Not classified (Based on available data, the classification criteria are not met) Additional Information : (according to composition) Carcinogenicity : Not classified (Based on available data, the classification criteria are not met) Additional Information : (according to composition) Additional Information : (according to composition) STOT-single exposure : Not classified (Based on available data, the classification criteria are not met) Additional Information : (according to composition) STOT-single exposure : Not classified (Based on available data, the classification criteria are not met) Additional Information : (according to composition) STOT-single exposure : Not classified (Based on available data, the classification criteria are not met) Additional Information : (according to composition) StoT-respeated exposure : Not classified (Based on available data, the classificat	Additional information	: (according to composition)
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Additional information : (according to composition) Gern cell mutagenicity : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) Carcinogenicity : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) Additional information : (according to composition) Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) STOT-single exposure : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) STOT-single exposure : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) STOT-single exposure : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) STOT-single exposure : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) Stotal patient <td< td=""><td>pН</td><td>Not applicable</td></td<>	pН	Not applicable
Additional information : (according to composition) Carcinogenicity : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) Additional information : (according to composition) Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) STOT-single exposure : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) STOT-single exposure : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) STOT-repated exposure : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) Distillates (petroleum), hydrotreated heavy puraffinic (64742-54-7) LOAEL (deral, rat, 90 days) 125 mg/kg bodyweight/day NOAEL (dermal, rat/rabbit, 90 days) 100 mg/kg bodyweight/day (API 1982, Mobil Environmental and Health Science Laboratory 1983 - OECD 410) NOAEC (inhalation, rat, vapour, 90 days) 220 - 980 mg/m² (Dalbey W, Osimitz T, Kommineni C, Roy T, Feuston M and Yang J	Respiratory or skin sensitisation Additional information	
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)	Germ cell mutagenicity Additional information	: (according to composition)
Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) STOT-single exposure : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) Distillates (petroleum), hydrotreated heavy petroleum products the classification criteria are not met) Additional information : (according to composition) Distillates (petroleum), hydrotreated heavy petroleum products the classification criteria are not met) Additional information : (according to composition) Distillates (petroleum), hydrotreated heavy petroleum products the classification criteria are not met) Additional information : (according to composition) Distillates (petroleum), hydrotreated heavy petroleum products the classification criteria are not met) Additional information : (according to composition) NOAEL (oral, rat, 90 days) : (25 mg/kg bodyweight/day (CAS 64742-04-7, Mobil 1990) (OECD 408) NOAEC (inhalation, rat, vapour, 90 days) : (20 - 980 mg/m² (Dalbey W, Osimitz T, Kommineni C, Roy T, Feuston M and Yang J 1991 - OECD	Carcinogenicity Additional information	: (according to composition)
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Additional information : (according to composition) STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met) Additional information : (according to composition) Distillates (petroleum), hydrotreated heavy >=Trinic (64742-54-7) 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) LOAEL (dermal, rat/rabbit, 90 days) 100 mg/kg bodyweight/day NOAEL (oral, rat, 90 days) 1000 mg/kg bodyweight/day (CAS 64742-04-7, Mobil 1990) (OECD 408) NOAEL (dermal, rat/rabbit, 90 days) 1000 - 2000 mg/kg bodyweight/day (API 1982, Mobil Environmental and Health Science Laboratory 1983 - OECD 410) 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) NOAEC (inhalation, rat, dust/mist/fume, 90 days) 28-Day Study) Aspiration hazard : way be fatal if swallowed and enters ainways. Additional information : (according to composition) For all low-viscosity petroleum products there is the risk of aspiration into the lungs. This is a serious condition requiring medical treatment. Aspiration into ulug scan cause a chemical pneumonia Kaber MM//E Viscosity, kinematic 17 mm²/s (40 °C) (ASTM D 445) Distilla	Reproductive toxicity Additional information	: (according to composition)
Additional information : (according to composition) Distillates (petroleum), hydrotreated heavy ====================================	STOT-single exposure Additional information	: (according to composition)
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)LOAEL (dermal, rat/rabbit, 90 days)100 mg/kg bodyweight/dayNOAEL (oral, rat, 90 days)<125 mg/kg bodyweight/day (CAS 64742-04-7, Mobil 1990) (OECD 408)	STOT-repeated exposure Additional information	
Image: Control of the second	Distillates (petroleum), hydrotreated heavy	oaraffinic (64742-54-7)
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 – 2000 mg/kg bodyweight/day (API 1982, Mobil Environmental and Health Science Laboratory 1983 - OECD 410)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)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)Aspiration hazard Additional information: May be fatal if swallowed and enters airways. : (according to composition) For all low-viscosity petroleum products there is the risk of aspiration into the lungs. This may occur directly after ingestion, or subsequently in case of vomiting (spontaneous or induced). 	LOAEL (oral, rat, 90 days)	
NOAEL (dermal, rat/rabbit, 90 days) 1000 - 2000 mg/kg bodyweight/day (API 1982, Mobil Environmental and Health Science Laboratory 1983 - OECD 410) 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) 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) Aspiration hazard : May be fatal if swallowed and enters airways. (additional information : (according to composition) For all low-viscosity petroleum products there is the risk of aspiration into the lungs. This may occur directly after ingestion, or subsequently in case of vomiting (spontaneous or induced). In this case there is the possibility of an inflamation of the lung tissues (chemical pneumonia). This is a serious condition requiring medical treatment. Aspiration into lungs can cause a chemical pneumonia Eni Aster MM/E Viscosity, kinematic Viscosity, kinematic 17 mm²/s (40 °C) (ASTM D 445) Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	LOAEL (dermal, rat/rabbit, 90 days)	100 mg/kg bodyweight/day
Laboratory 1983 - OECD 410)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)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)Aspiration hazard Additional information: May be fatal if swallowed and enters airways. : (according to composition) For all low-viscosity petroleum products there is the risk of aspiration into the lungs. This may occur directly after ingestion, or subsequently in case of vomiting (spontaneous or induced). In this case there is the possibility of an inflamation of the lung tissues (chemical pneumonia). This is a serious condition requiring medical treatment. Aspiration into lungs can cause a chemical pneumoniaEni Aster MM/E Viscosity, kinematic17 mm²/s (40 °C) (ASTM D 445)Distillates (petroleum), hydrotreated heavy purifinic (64742-54-7)	NOAEL (oral, rat, 90 days)	< 125 mg/kg bodyweight/day (CAS 64742-04-7, Mobil 1990) (OECD 408)
1991 - OECD 412) 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) Aspiration hazard : May be fatal if swallowed and enters airways. Additional information : (according to composition) For all low-viscosity petroleum products there is the risk of aspiration into the lungs. This may occur directly after ingestion, or subsequently in case of vomiting (spontaneous or induced). In this case there is the possibility of an inflamation of the lung tissues (chemical pneumonia). This is a serious condition requiring medical treatment. Aspiration into lungs can cause a chemical pneumonia Eni Aster MM/E 17 mm²/s (40 °C) (ASTM D 445) Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7) 17 mm²/s (4742-54-7)	NOAEL (dermal, rat/rabbit, 90 days)	
28-Day Study) Aspiration hazard May be fatal if swallowed and enters airways. Additional information (according to composition) For all low-viscosity petroleum products there is the risk of aspiration into the lungs. This may occur directly after ingestion, or subsequently in case of vomiting (spontaneous or induced). In this case there is the possibility of an inflamation of the lung tissues (chemical pneumonia). This is a serious condition requiring medical treatment. Aspiration into lungs can cause a chemical pneumonia Eni Aster MM/E 17 mm²/s (40 °C) (ASTM D 445) Distillates (petroleum), hydrotreated heavy partificic (64742-54-7)	NOAEC (inhalation,rat, vapour, 90 days)	
Additional information: (according to composition) For all low-viscosity petroleum products there is the risk of aspiration into the lungs. This may occur directly after ingestion, or subsequently in case of vomiting (spontaneous or induced). In this case there is the possibility of an inflamation of the lung tissues (chemical pneumonia). This is a serious condition requiring medical treatment. Aspiration into lungs can cause a chemical pneumoniaEni Aster MM/EViscosity, kinematic17 mm²/s (40 °C) (ASTM D 445)Distillates (petroleum), hydrotreated heavy partifinic (64742-54-7)	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)
Viscosity, kinematic 17 mm²/s (40 °C) (ASTM D 445) Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	Aspiration hazard Additional information	 : (according to composition) For all low-viscosity petroleum products there is the risk of aspiration into the lungs. This may occur directly after ingestion, or subsequently in case of vomiting (spontaneous or induced). In this case there is the possibility of an inflamation of the lung tissues (chemical pneumonia). This is a serious condition requiring medical treatment.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	Eni Aster MM/E	
	Viscosity, kinematic	17 mm²/s (40 °C) (ASTM D 445)
Viscosity, kinematic 30 – 32 mm²/s (40 °C) (ASTM D 445)	Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
	Viscosity, kinematic	30 – 32 mm²/s (40 °C) (ASTM D 445)

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11.2. Information on other hazards	
11.2.1. Endocrine disrupting properties	
Adverse health effects 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 %
11.2.2. Other information	
Potential adverse human health effects and symptoms Other information	 Aspiration into lungs can cause a chemical pneumonia,May be fatal if swallowed and enter airways,Contact with eyes may cause temporary reddening and irritation. None

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general :	The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. An uncontrolled release to the environment may nevertheless produce a contamination of different environmental compartments (air, soil, underground, surface water bodies, aquifers). Handle according to general working hygiene practices to avoid pollution and release into the environment. Notify authorities if product enters sewers or public waters.
Ecology - air :	This product has a low vapour pressure. A significant exposure may happen only if the product is used at high temperature, or in case of sprays and mists.
Ecology - water :	This product is not soluble in water. It floats on water and forms a film on the surface. The damage to aquatic organisms is of mechanical kind (immobilization and entrapment)
Hazardous to the aquatic environment, short-term : (acute) Hazardous to the aquatic environment, long-term : (chronic)	Not classified (Based on available data, the classification criteria are not met) Not classified (Based on available data, the classification criteria are not met)
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
LC50 fish 1	> 100 mg/l (LL 50, 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)

12.2. Persistence and degradability

Eni Aster MM/E		
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 paraffinic (64742-54-7)		
Persistence and degradability	The most significant constituents of the product should be considered as "inherently biodegradable", but not "readily biodegradable", and they may be moderately persistent, particularly in anaerobic conditions	
Biodegradation	31 % (28d, Exxon 1995)	

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12.3. Bioaccumulative potential		
Eni Aster MM/E		
Log Kow	Not determined	
Bioaccumulative potential	Not established.	
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)		
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)	
Bioaccumulative potential	The test methods for this endpoint are not applicable to UVCB substances.	

12.4. Mobility in soil

Eni Aster MM/E	
Ecology - soil	No data available.
Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)	
Log Koc	1.71 – 14.7
Ecology - soil	The test methods for this endpoint are not applicable to UVCB substances.

12.5. Results of PBT and vPvB assessment

Eni Aster MM/E	
This substance/mixture does not meet the PBT criteria	of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria	a 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)
Substance(s) not meeting the vPvB criteria of REACH regulation, in accordance with Annex XIII	Distillates (petroleum), hydrotreated heavy paraffinic (64742-54-7)
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 %.
12.7. Other adverse effects	
	None. 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.

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SECTION 13: Disposal considerations	5
13.1. Waste treatment methods	
Waste treatment methods	: Do not dispose of the product, either new or used, by discharging into sewers, tunnels, lakes or water courses. Deliver to a qualified official collector.
Sewage disposal recommendations	: Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed. Dispose of in a safe manner in accordance with local/national regulations.
Product/Packaging disposal recommendations	: European Waste Catalogue code(s) (Decision 2001/118/CE): 13 02 05* (mineral-based 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, drill, burn or incinerate empty containers or drums, unless they have been cleaned, and declared safe.
Ecology - waste materials	: The product as it is does not contain halogenated substances.
EURAL code (EWC)	: 13 02 05* - Mineral-based non-chlorinated engine, gear and lubricating oils

SECTION 14: Transport information

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

15.1.1. 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). Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 Arril 2004 are paraited to reparise parliament and of the Council of 29
	(ODP). Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC. Regulation EU (649/2012) - Export and Import of hazardous chemicals (PIC).

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)		
Reference code	Applicable on	Entry title or description
3(b)	Eni Aster MM/E ; Distillates (petroleum), hydrotreated heavy paraffinic	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

REACH Annex XIV (Authorisation List)

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

REACH Candidate List (SVHC)

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

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)

15.1.2. National regulations

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

National adoption of EU Directives concerning control of major-accident hazards involving dangerous substances (2012/18/CE). Relevant national laws on prevention of water pollution.

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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.

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.
VbF class (D) Water hazard class (WGK) (WGK remark	D)	 Not applicable. WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1). Classification based on the components in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS).
Hazardous Incident Ordinance (12. BImSchV)		: Is not subject to the Hazardous Incident Ordinance (12. BImSchV)
Netherlands		
Saneringsinspanningen SZW-lijst van kankerverwekk SZW-lijst van mutagene stof SZW-lijst van reprotoxische SZW-lijst van reprotoxische SZW-lijst van reprotoxische	fen stoffen – Borstvoeding stoffen –	 C - Minimize discharge None of the components are listed
Denmark		
Danish National Regulations 15.2. Chemical safety a		: Pregnant/breastfeeding women working with the product must not be in direct contact with it

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

SECTION 16: Other information

Indication of changes			
Section	Changed item	Change	Comments
	First issue.		

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

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BCF	Bioconcentration factor	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Effective concentration for 50 percent of test population (median effective concentration)	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	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	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals, Regulation (EC) No 1907/2006	
RID	Regulation concerning the International Carriage of Dangerous Goods by Railways	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
vPvB	Very Persistent and Very Bioaccumulative	

Training advice

Other information

- Provide adequate training to professional operators for the use of PPEs, according to the : information contained in this Safety Data Sheet.
- Do not use the product for any purposes that have not been advised by the manufacturer. In exceptional cases (i.e prolunged storage in tanks contaminated with water, and presence of anaerobic sulfate-reducing microbial colonies), the product may undergo a degradation and generate small amounts of sulfur compounds, including H2S. This situation is especially relevant in all those circumstances which require to enter a confined space, with direct exposure to the vapours. 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. If there is any suspicion of inhalation of H2S (hydrogen sulphide), Rescuers must wear breathing apparatus, belt and safety rope, and follow rescue procedures. Send patient to hospital. Immediately begin artificial respiration if breathing has ceased. Administer oxygen if necessary.

Full text of H- and EUH-statements:		
Asp. Tox. 1	Aspiration hazard, Category 1	
H304	May be fatal if swallowed and enters airways.	

Safety Data Sheet

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

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Asp. Tox. 1	H304	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.