



# Eni Acer MPK 220

## Safety Data Sheet

According to Regulation (EU) No. 830/2015

Revision date: 17/07/2020 Supersedes: 27/02/2020 Version: 7.0

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

#### 1.1. Product identifier

Product form	: Mixture
Trade name	: Eni Acer MPK 220
Product code	: 7487
Type of product	: Lubricants
Formula	: 0039-2007
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	: Used in closed systems Wide dispersive use
Use of the substance/mixture	: Hydraulic Fluids
Use of the substance/mixture	: Functional fluids Hydraulic oil ----
	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

Restrictions on use	: Restricted to professional users
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#### 1.3. Details of the supplier of the safety data sheet

ENI S.p.A.  
P.le E. Mattei 1 - 00144 Rome Italy  
Phone: (+39) 06 59821  
www.eni.com

Contact:  
Refining & Marketing

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

#### 1.4. Emergency telephone number

Emergency number	: CNIT +39 0382 24444 (24h) (IT + EN)
	Poison centre (UK): National Poisons Information Service Edinburgh (24h) (+44) 844 892 0111 0870 600 6266 (UK only) (Source: UN-WHO)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

Reproductive toxicity, Category 1B	H360
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411
Full text of H statements	: see section 16

##### Adverse physicochemical, human health and environmental effects

May damage fertility. May damage the unborn child. Toxic to aquatic life with long lasting effects. For specific information about the toxicological/ecotoxicological properties and classification of this product, see Sect. 11 and/or Sect. 12.

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### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS08

GHS09

CLP Signal word :

Danger

Hazardous ingredients and/or with relevant occupational exposure limits :

Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligermization, carbonate, calcium salts, overbased, sulfurized, including distillates (petroleum), hydrotreated, solvent-refined, solvent dewaxed, or catalytic dewaxed, light or heavy paraffinic C10-C50

Hazard statements (CLP) :

H360 - May damage fertility or the unborn child.  
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P201 - Obtain special instructions before use.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, eye protection, face protection, protective clothing.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.  
P391 - Collect spillage.  
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. In case of contact with eyes, this product may cause irritation. 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. A potential risk may arise from the release of hydrogen sulfide, when the product is stored or handled at high temperature. Hydrogen sulfide may accumulate in the tanks or other confined spaces, with danger to the workers that enter the spaces. In these cases overexposure to hydrogen sulfide may cause irritation to airways, nausea, dizziness, loss of consciousness and death.

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

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

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Notes : Composition/ Information on ingredients:  
Mixture of hydrocarbons  
Additives

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]
Residual oils (petroleum,) solvent-refined (see note [*], see note [**])	(CAS-No.) 64742-01-4 (EC-No.) 265-101-6 (EC Index-No.) 649-459-00-4 (REACH-no) 01-2119488707-21	50 - 60	Not classified
Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated (see note [*], see note [**])	(CAS-No.) 101316-72-7 (EC-No.) 309-877-7 (EC Index-No.) 649-530-00-X (REACH-no) 01-2119489969-06-0000	35 - 45	Not classified
Phenol, isopropylated, phosphate (3:1) (Additive)	(CAS-No.) 68937-41-7 (EC-No.) 273-066-3 (EC Index-No.) N/A (REACH-no) 01-2119535109-41	1 - 1,5	Repr. 2, H361fd STOT RE 2, H373 Aquatic Chronic 1, H410 (M=10)
Polysulfides, Di-tert-dodecyl- (Additive, see note [****])	(CAS-No.) 68425-15-0 (EC-No.) 270-335-7 (EC Index-No.) N/A (REACH-no) 01-2119540516-41-0000	1 - 1,5	Not classified

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Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligermization, carbonate, calcium salts, overbased, sulfurized, including distillates (petroleum), hydrotreated, solvent-refined, solvent dewaxed, or catalytic dewaxed, light or heavy paraffinic C10-C50 (Additive)	(CAS-No.) N/D (EC-No.) 701-251-5 (EC Index-No.) N/A (REACH-no) 01-2119524004-56	0,2 - 0,6	Repr. 1B, H360 Aquatic Chronic 4, H413
Calcium carbonate (see note [****])	(CAS-No.) 471-34-1 (EC-No.) 207-439-9 (EC Index-No.) N/A (REACH-no) 01-2119486795-18-0059	0,2 - 0,3	Not classified
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts (Additive, see note [****])	(EC-No.) 939-603-7 (EC Index-No.) N/A (REACH-no) 01-2119978241-36	0,1 - 0,15	Not classified

- Notes
- : Note [\*]:  
this product has a value of DMSO extract < 3 % wt, according to IP 346/92. According to the criteria laid out by the EU (note L, Annex VI of Regulation (CE) 1272/2008), this product must be regarded as non carcinogenic.
  - Note [\*\*]:  
substance with occupational exposure limits for some EU countries affecting the category of mineral oils (finely refined mineral base oil mists; see section 8.1)
  - Note [\*\*\*]:  
Total Base Number (TBN): > 300 mgKOH/g (ASTM D 2896)  
More detailed information: See section 11.
  - Note [\*\*\*\*]:  
substance with national workplace exposure limit(s)

Full text of H-statements: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : IF exposed or concerned: Get medical advice/attention. If medical advice is needed, have product container or label at hand.
- First-aid measures after inhalation : Remove to fresh air, keep the casualty warm and at rest. If breathing is difficult, give oxygen if possible, or assisted ventilation. If necessary, give external cardiac massage and obtain medical advice. See also section 4.3.
- First-aid measures after skin contact : Remove contaminated clothing and shoes. Wash skin 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.
- First-aid measures after eye contact : Remove contact lenses, if present and easy to do so. 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 : Rinse mouth thoroughly with water. Give water to drink if victim completely conscious/alert. Do not induce vomiting.

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

- Symptoms / injuries (general indications) : There are potential chronic health effects to consider.
- Symptoms/effects after inhalation : Inhalation of fumes or oil mists produced at high temperatures may cause irritation of the respiratory tract. Symptoms of overexposure to vapours include drowsiness, weakness, headache, dizziness, nausea, vomiting, dimming of vision.
- 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 : May damage fertility. May damage the unborn child.

#### 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. In case of ingestion, drain stomach by gastric lavage ONLY under qualified medical supervision. Send the casualty immediately to hospital. Seek medical attention in all cases of serious burns. If there is any suspicion of inhalation of H<sub>2</sub>S (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.

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### 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 : 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/m<sup>3</sup> of air. Vapours are heavier than air, spread along floors and form explosive mixtures with air.
- Hazardous decomposition products in case of fire : Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, NO<sub>x</sub>, H<sub>2</sub>S and SO<sub>x</sub> (harmful/toxic gases). Oxygenated compounds (aldehydes, etc.). PO<sub>x</sub>. CaO<sub>x</sub>.

#### 5.3. Advice for firefighters

- Firefighting instructions : Shut off source of product, if possible. Move undamaged containers from immediate hazard area if it can be done safely. Spilled product which is not burning should be covered with sand or foam. Use water sprays to cool containers and surfaces exposed to the flames. If the fire cannot be controlled, evacuate area.
- Special protective equipment for firefighters : 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.
- 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.

##### 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 : Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters. 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 helmet. Antistatic non-skid safety shoes or boots. Goggles and /or face shield, if splashes or contact with eyes is possible or anticipated. Respiratory protection: A half or full-face respirator with filter(s) for organic vapours (A) (or A+B when applicable for H<sub>2</sub>S), 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 : Notify local authorities according to relevant regulations.

#### 6.2. Environmental precautions

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

#### 6.3. Methods and material for containment and cleaning up

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

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

### 6.4. Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : This material is combustible, but will not ignite readily. Provide adequate ventilation. Use adequate personal protective equipment as needed. Due to the extremely slippery nature of this material, more care than usual must be exercised in material handling practices to keep off all walking surfaces. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid release to the environment. Emptied containers can contain combustible product residues. Do not cut, weld, drill, burn or incinerate empty containers or drums, unless they have been drained and cleaned. 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. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Contaminated work clothing should not be allowed out of the workplace. Separate working clothes from town clothes. Launder separately.

### 7.2. Conditions for safe storage, including any incompatibilities

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

Incompatible products : Strong oxidizing agents.

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

Packages and containers: : If the product is supplied in containers: Keep containers tightly closed and properly labelled. 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.

### 7.3. Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Residual oils (petroleum,) solvent-refined (64742-01-4)		
Austria	MAK [mg/m <sup>3</sup> ]	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Belgium	Limit value [mg/m <sup>3</sup> ]	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Denmark	Grænseværdi (langvarig) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Denmark	Grænseværdi (kortvarig) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Hungary	AK-érték	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Netherlands	MAC TGG 8h (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Spain	VLA-ED (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Spain	VLA-EC (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Sweden	Nivågränsvärde (NVG) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)

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<b>Residual oils (petroleum,) solvent-refined (64742-01-4)</b>		
Sweden	Kortidsvärde (KTV) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - ACGIH	ACGIH TLV®-TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - ACGIH	ACGIH TLV®-STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
<b>Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated (101316-72-7)</b>		
Austria	MAK [mg/m <sup>3</sup> ]	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Belgium	Limit value [mg/m <sup>3</sup> ]	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Denmark	Grænseværdi (langvarig) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Denmark	Grænseværdi (kortvarig) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Hungary	AK-érték	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Netherlands	MAC TGG 8h (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Spain	VLA-ED (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Spain	VLA-EC (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Sweden	Nivågränsvärde (NVG) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Sweden	Kortidsvärde (KTV) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
United Kingdom	WEL STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Canada (Quebec)	VECD (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
Canada (Quebec)	VEMP (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - ACGIH	ACGIH TLV®-TWA (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - ACGIH	ACGIH TLV®-STEL (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - NIOSH	NIOSH REL (STEL) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
USA - OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Mineral base oil mist, severely refined, DMSO extract <3% m/m)
<b>Phenol, isopropylated, phosphate (3:1) (68937-41-7)</b>		
Austria	MAK [mg/m <sup>3</sup> ]	3 mg/m <sup>3</sup> (Reference: CAS 115-86-6, Triphenylphosphate)
Austria	MAK Short time value [mg/m <sup>3</sup> ]	6 mg/m <sup>3</sup> (Reference: CAS 115-86-6, Triphenylphosphate)
Belgium	Limit value [mg/m <sup>3</sup> ]	3 mg/m <sup>3</sup> (Reference: CAS 115-86-6, Triphenylphosphate)
Denmark	Grænseværdi (langvarig) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (Reference: CAS 115-86-6, Triphenylphosphate)
Denmark	Grænseværdi (kortvarig) (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> (Reference: CAS 115-86-6, Triphenylphosphate)
Finland	HTP-arvo (8h) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (Reference: CAS 115-86-6, Triphenylphosphate)

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<b>Phenol, isopropylated, phosphate (3:1) (68937-41-7)</b>		
Finland	HTP-arvo (15 min) (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup> (Reference: CAS 115-86-6, Triphenylphosphate)
France	VME [mg/m <sup>3</sup> ]	3 mg/m <sup>3</sup> (Reference: CAS 115-86-6, Triphenylphosphate)
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (Reference: CAS 115-86-6, Triphenylphosphate)
Spain	VLA-ED (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (Reference: CAS 115-86-6, Triphenylphosphate)
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (Reference: CAS 115-86-6, Triphenylphosphate)
USA - ACGIH	ACGIH TLV®-TWA (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (Reference: CAS 115-86-6, Triphenylphosphate)
USA - NIOSH	NIOSH REL (TWA) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (Reference: CAS 115-86-6, Triphenylphosphate)
USA - OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (Reference: CAS 115-86-6, Triphenylphosphate)

<b>Polysulfides, Di-tert-dodecyl- (68425-15-0)</b>		
Germany	Occupational exposure limit value (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (respirable fraction)
Germany	Limitation of exposure peaks (mg/m <sup>3</sup> )	20 mg/m <sup>3</sup> (respirable fraction)
Switzerland	MAK (mg/m <sup>3</sup> )	300 mg/m <sup>3</sup> (Inhalable aerosol)
Switzerland	VLE [mg/m <sup>3</sup> ]	600 mg/m <sup>3</sup> (Inhalable aerosol)

<b>Calcium carbonate (471-34-1)</b>		
France	VLE [mg/m <sup>3</sup> ]	10 mg/m <sup>3</sup> (Inhalable dust)
Hungary	AK-érték	10 mg/m <sup>3</sup> (Inhalable dust)
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup> (Inhalable dust)
Latvia	OEL TWA (mg/m <sup>3</sup> )	6 mg/m <sup>3</sup>
Poland	NDS (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
United Kingdom	WEL TWA (mg/m <sup>3</sup> )	4 mg/m <sup>3</sup> (Respirable dust)
Switzerland	MAK (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup> (Respirable dust)
USA - OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	5 mg/m <sup>3</sup> (Respirable dust)

<b>Monitoring methods</b>		
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.	

<b>Eni Acer MPK 220</b>		
DNEL/DMEL (additional information)		
Additional information	Not applicable	
PNEC (additional information)		
Additional information	Not applicable	

<b>Residual oils (petroleum,) solvent-refined (64742-01-4)</b>		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	0,97 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	2,73 mg/m <sup>3</sup>	
Long-term - local effects, inhalation	5,58 mg/m <sup>3</sup>	
DNEL/DMEL (General population)		
Long-term - systemic effects, oral	0,74 mg/kg bodyweight/day	
Long-term - local effects, inhalation	1,19 mg/m <sup>3</sup>	
PNEC (Oral)		
PNEC oral (secondary poisoning)	9,33 mg/kg food	

<b>Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated (101316-72-7)</b>		
DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	1 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	2,7 mg/m <sup>3</sup>	
Long-term - local effects, inhalation	5,6 mg/m <sup>3</sup>	
DNEL/DMEL (General population)		
Long-term - systemic effects, oral	0,74 mg/kg bodyweight/day	
PNEC (Oral)		

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<b>Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated (101316-72-7)</b>	
PNEC oral (secondary poisoning)	9,33 mg/kg food
<b>Phenol, isopropylated, phosphate (3:1) (68937-41-7)</b>	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	2000 mg/kg bodyweight/day
Acute - systemic effects, inhalation	20,1 mg/m <sup>3</sup>
Acute - local effects, dermal	16 mg/cm <sup>2</sup>
Long-term - systemic effects, dermal	0,417 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,145 mg/m <sup>3</sup>
Long-term - local effects, inhalation	700 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	100 mg/kg bodyweight
Acute - systemic effects, inhalation	350 mg/m <sup>3</sup>
Acute - systemic effects, oral	50 mg/kg bodyweight
Acute - local effects, dermal	8 mg/cm <sup>2</sup>
Long-term - systemic effects, oral	0,04 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,07 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	0,208 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,00031 mg/l
PNEC aqua (marine water)	0,000031 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0,185 mg/kg dwt
PNEC sediment (marine water)	0,0185 mg/kg dwt
PNEC (Soil)	
PNEC soil	2,5 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l
<b>Polysulfides, Di-tert-dodecyl- (68425-15-0)</b>	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	46,7 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	32,9 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	1,7 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	5,8 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	16,7 mg/kg bodyweight/day
PNEC (Sediment)	
PNEC sediment (freshwater)	3,85 mg/kg dwt
PNEC sediment (marine water)	0,385 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	66,7 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	1000 mg/l
<b>Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligermization, carbonate, calcium salts, overbased, sulfurized, including distillates (petroleum), hydrotreated, solvent-refined, solvent dewaxed, or catalytic dewaxed, light or heavy paraffinic C10-C50 (N/D)</b>	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	80 mg/kg bodyweight/day
Acute - systemic effects, inhalation	133,6 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	0,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3,5 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	40 mg/kg bodyweight
Acute - systemic effects, inhalation	0,067 mg/m <sup>3</sup>
Acute - systemic effects, oral	50 mg/kg bodyweight
Long-term - systemic effects, oral	0,25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0,87 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	0,25 mg/kg bodyweight/day
PNEC (Water)	

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<b>Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligermization, carbonate, calcium salts, overbased, sulfurized, including distillates (petroleum), hydrotreated, solvent-refined, solvent dewaxed, or catalytic dewaxed, light or heavy paraffinic C10-C50 (N/D)</b>	
PNEC aqua (freshwater)	0,5 mg/l
PNEC aqua (marine water)	0,04 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	43500 mg/kg dwt
PNEC sediment (marine water)	3480 mg/kg dwt
PNEC (Soil)	
PNEC soil	8850 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	13333 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l
<b>Calcium carbonate (471-34-1)</b>	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	6,36 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Acute - systemic effects, oral	6,1 mg/kg bodyweight
Long-term - systemic effects, oral	6,1 mg/kg bodyweight/day
Long-term - local effects, inhalation	1,06 mg/m <sup>3</sup>
PNEC (STP)	
PNEC sewage treatment plant	100 mg/l
<b>Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts</b>	
DNEL/DMEL (Workers)	
Acute - local effects, dermal	1,04 mg/cm <sup>2</sup>
Long-term - systemic effects, dermal	25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	35,26 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Acute - local effects, dermal	0,518 mg/cm <sup>2</sup>
Long-term - systemic effects, oral	2,5 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	8,7 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	12,5 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0,1 mg/l
PNEC aqua (marine water)	0,1 mg/l
PNEC aqua (intermittent, freshwater)	1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	45211 mg/kg dwt
PNEC sediment (marine water)	45211 mg/kg dwt
PNEC (Soil)	
PNEC soil	47025 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	1000 mg/l

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

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station. Before entering storage tanks and commencing any operation in a confined area (e.g. tunnels), check the atmosphere for oxygen content, presence of hydrogen sulphide (H<sub>2</sub>S) and SO<sub>x</sub>, and flammability. See also Section 16, "Other information".

#### Personal protective equipment (for industrial or professional use):

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

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### Hand protection:

Protective 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. 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.

### Eye protection:

Chemical goggles or face shield. DIN EN 166. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure

### Skin and body protection:

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

### Respiratory protection:

Independently from other possible actions (technical modifications, operating procedures, and other means to limit the exposure of workers), personal protection equipment can be used according to necessity. Open or well ventilated spaces: if the product is handled without adequate containment: use full or half-face masks with adequate filter for 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). If exposure levels cannot be determined or estimated with adequate confidence, or an oxygen deficiency is possible, only SCBA's should be used. Approved respiratory protection equipment shall be used in spaces where hydrogen sulphide may accumulate: full face mask with cartridge/filter type "B" (grey for inorganic vapours including H<sub>2</sub>S) or self-contained breathing apparatus (SCBA). (EN 136/140/145)

### Personal protective equipment symbol(s):



### Thermal hazard protection:

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

### Environmental exposure controls:

Do not discharge the product into the environment. Do not apply industrial sludge to natural soils. Sludge should be incinerated, contained or reclaimed. 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.

### Consumer exposure controls:

Not applicable.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid, bright & clear.
Colour	: Yellow-brown.
Odour	: characteristic.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: -6 °C (pour point) (ASTM D 97)
Freezing point	: ≈ 0 °C (CAS 64742-01-4)
Boiling point	: 207 - 750 °C (CAS 64742-01-4)
Flash point	: 256 °C (ASTM D 92)
Critical temperature	: Not applicable for mixtures
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: < 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010)
Critical pressure	: Not applicable for mixtures
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 903 kg/m <sup>3</sup> (15°C, ASTM D 4052)

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Solubility	: Water: Immiscible and insoluble
Log Pow	: Not applicable for mixtures
Log Kow	: Not applicable for mixtures
Viscosity, kinematic	: 220 mm <sup>2</sup> /s (40 °C) (ASTM D 445)
Viscosity, dynamic	: No data available
Explosive properties	: None (according to composition).
Oxidising properties	: None (according to composition).
Explosive limits	: LEL ≥ 45 g/m <sup>3</sup> (Aerosol)

### 9.2. Other information

Additional information : No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

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

### 10.3. Possibility of hazardous reactions

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

### 10.4. Conditions to avoid

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

### 10.5. Incompatible materials

Strong oxidants.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition may produce : Toxic fumes. In exceptional cases (i.e prolonged storage in tanks contaminated with water, and presence of anaerobic sulfate-reducing microbial colonies), the product may undergo a degradation and generate small amounts of sulfur compounds, including H<sub>2</sub>S. See also Section 16, "Other information".

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition)

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

LD50 oral rat	5000 mg/kg bodyweight
LD50 dermal rat	2000 - 5000 mg/kg bodyweight
LC50 Inhalation - Rat	2,18 - 5,53 mg/l/4h

#### Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated (101316-72-7)

LD50 oral rat	> 5000 mg/kg (API 1986, UBTL 1983 - OECD 401)
LD50 dermal rabbit	> 2000 mg/kg bodyweight (API 1986, UBTL 1984 - OECD 402)
LC50 Inhalation - Rat	2,18 - 5,53 mg/l/4h (API 1987, Exxon Biomedical Sciences, Inc. 1988, BioResearch Laboratories, Ltd. 1984 - OECD 403)

#### Phenol, isopropylated, phosphate (3:1) (68937-41-7)

LD50 oral rat	≥ 5000 mg/kg
LD50 dermal rabbit	≥ 10000 mg/kg bodyweight
LC50 Inhalation - Rat	≥ 200 mg/l/4h

#### Polysulfides, Di-tert-dodecyl- (68425-15-0)

LD50 oral rat	≥ 2000 mg/kg
LD50 dermal rat	≥ 2000 mg/kg

#### Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligermization, carbonate, calcium salts, overbased, sulfurized, including distillates (petroleum), hydrotreated, solvent-refined, solvent dewaxed, or catalytic dewaxed, light or heavy paraffinic C10-C50 (N/D)

LD50 oral rat	> 5000 mg/kg bodyweight (OECD 401)
LD50 dermal rabbit	> 4000 mg/kg bodyweight (24h, OECD 402)
LC50 Inhalation - Rat (Vapours)	> 1,67 mg/l/4h (1h, OECD 403)

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<b>Calcium carbonate (471-34-1)</b>	
LD50 oral rat	2000 mg/kg bodyweight
LD50 dermal rat	2000 mg/kg bodyweight
LC50 Inhalation - Rat	3 mg/l/4h
<b>Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts</b>	
LD50 oral rat	> 5000 mg/kg bodyweight ((Sanitised, F. (1989), OECD Guideline 401))
LD50 dermal rat	> 2000 mg/kg bodyweight ((Sanitised, G. (1989), OECD Guideline 402))
LC50 Inhalation - Rat	> 1,9 mg/l/4h ((Hoffman, G.M. (1986), EPA OPP 81-3))
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition)
Respiratory or skin sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition) This product is formulated with a component containing calcium sulphonate (sensitizer). The component has been tested by the manufacturer and has been exempted from the classification as sensitizer. Total Base Number (TBN): > 300 mgKOH/g (ASTM D 2896) not sensitising.
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition) This product contains : Residual oils (petroleum) solvent-refined; Baseoil— unspecified; [A complex combination by hydrocarbons obtained as the solvent insoluble fraction from solvent refining of a residuum using a polar organic solvent such as phenol or furfural. It consists of hydrocarbons having carbon numbers predominantly higher than C25 and boiling above approximately 400°C (752°F).], Lubricating oils (petroleum), C24-50, solvent-extd, dewaxed, hydrogenated; Baseoil— unspecified; [A complex combination of hydrocarbons obtained by solvent extraction and hydrogenation of atmospheric distillation residues. It consists predominantly of hydrocarbons having carbon numbers predominantly in the range of C24 through C50 and produces a finished oil with a viscosity in the order of 16cSt to 75cSt at 40 °C (104 °F).] this product has a value of DMSO extract < 3 % wt, according to IP 346/92. According to the criteria laid out by the EU (note L, Annex VI of Regulation (CE) 1272/2008), this product must be regarded as non carcinogenic.
Reproductive toxicity	: May damage fertility or the unborn child. (Based on available data, the classification criteria are not met)
Additional information	: (according to composition) This product contains : Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligermization, carbonate, calcium salts, overbased, sulfurized, including distillates (petroleum), hydrotreated, solvent-refined, solvent dewaxed, or catalytic dewaxed, light or heavy paraffinic C10-C50 This product contains, as impurity, a substance (Dodecylphenol, branched) classified as Repr. 1B, H360F (CLP) according to the criteria of EU There is the possibility of effects on the reproductive system (damages to male fertility) This evaluation is based on the real characteristics of the components and their combination, taking into account the information provided by the suppliers. This product contains also : Phenol, isopropylated, phosphate (3:1) Suspected of damaging fertility. Suspected of damaging the unborn child. The actual relevance of these effects in man is not certain.
<b>Phenol, isopropylated, phosphate (3:1) (68937-41-7)</b>	
NOAEL (animal/male, F0/P)	400 mg/kg bodyweight (OECD 414)
<b>Polysulfides, Di-tert-dodecyl- (68425-15-0)</b>	
NOAEL (animal/male, F0/P)	1000 mg/kg
<b>Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligermization, carbonate, calcium salts, overbased, sulfurized, including distillates (petroleum), hydrotreated, solvent-refined, solvent dewaxed, or catalytic dewaxed, light or heavy paraffinic C10-C50 (N/D)</b>	
NOAEL (animal/male, F0/P)	300 mg/kg (OECD 416)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
Additional information	: (according to composition)
<b>Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts</b>	
NOAEL (dermal, rat/rabbit)	2500 mg/kg bodyweight

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<b>Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts</b>	
NOAEC (inhalation, rat, vapour)	881,58 mg/m <sup>3</sup>

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

Additional information : (according to composition)

<b>Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated (101316-72-7)</b>	
LOAEL (oral, rat, 90 days)	125 mg/kg bodyweight/day (Mobil 1990 - OECD TG 408)
LOAEL (dermal, rat/rabbit, 90 days)	100 mg/kg bodyweight/day (mouse, Chasey, K.L. and McKee, R.H. 1993 - OECD 453)
NOAEL (dermal, rat/rabbit, 90 days)	1000 - 2000 mg/kg bodyweight/day (API 1986, Mobil Environmental and Health Science Laboratory 1983 - OECD 410)
NOAEC (inhalation, rat, vapour, 90 days)	220 - 1500 mg/m <sup>3</sup> (Exxon Biomedical Sciences, Inc. 1991, Dalbey W, Osimitz T, Kommineni C, Roy T, Feuston M and Yang J 1991 - OECD 412)

<b>Phenol, isopropylated, phosphate (3:1) (68937-41-7)</b>	
NOAEL (oral, rat, 90 days)	< 25 mg/kg bodyweight/day (OECD 408)

<b>Polysulfides, Di-tert-dodecyl- (68425-15-0)</b>	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight/day

<b>Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligermization, carbonate, calcium salts, overbased, sulfurized, including distillates (petroleum), hydrotreated, solvent-refined, solvent dewaxed, or catalytic dewaxed, light or heavy paraffinic C10-C50 (N/D)</b>	
NOAEL (oral, rat, 90 days)	200 mg/kg bodyweight/day
NOAEL (dermal, rat/rabbit, 90 days)	250 mg/kg bodyweight/day

<b>Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts</b>	
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 (OECD Guideline 410)
NOAEL (subacute, oral, animal/male, 28 days)	> 500 mg/kg bodyweight (OECD Guideline 407)

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

Additional information : (according to composition)  
Viscosity, kinematic: > 20,5 mm<sup>2</sup>/s (40 °C) (ASTM D 445)

<b>Eni Acer MPK 220</b>	
Viscosity, kinematic	220 mm <sup>2</sup> /s (40 °C) (ASTM D 445)

Potential adverse human health effects and symptoms : May damage fertility or the unborn child. Contact with eyes may cause temporary reddening and irritation. Avoid all eye and skin contact and do not breathe vapour and mist.

Other information : None.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: Toxic 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 - 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	: Toxic 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 (chronic)	: Toxic to aquatic life with long lasting effects.

<b>Eni Acer MPK 220</b>	
EC50 Daphnia 1	> 100 mg/l (OECD 211)
NOEC chronic algae	100 mg/l (21d)

<b>Residual oils (petroleum,) solvent-refined (64742-01-4)</b>	
LC50 fish 1	100 mg/l
EC50 Daphnia 1	10 g/l

<b>Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated (101316-72-7)</b>	
LC50 fish 1	> 100 mg/l (LL 50, Exxon 1995 - OECD 203)
EC50 Daphnia 1	> 10000 mg/l (WAF, 48 h, 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)

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<b>Phenol, isopropylated, phosphate (3:1) (68937-41-7)</b>	
LC50 fish 1	1,6 mg/l (Oncorhynchus mykiss)
LC50 fish 2	10,8 mg/l (Pimephales promelas)
EC50 Daphnia 1	2,44 mg/l
NOEC chronic fish	0,0031 mg/l (33d, Pimephales promelas, OECD 210)
NOEC chronic crustacea	0,041 mg/l (21d, OECD 211)
<b>Polysulfides, Di-tert-dodecyl- (68425-15-0)</b>	
LC50 fish 1	> 100 mg/l (Danio rerio, OECD 203)
NOEC chronic fish	> 0,84 µg/L (Pimephales promelas, OECD TG 210)
NOEC chronic crustacea	> 0,79 µg/L (Daphnia magna, 21d, OECD TG 211)
NOEC chronic algae	> 100 mg/l (Pseudokirchneriella subcapitata, 72d, OECD TG 201)
<b>Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligermization, carbonate, calcium salts, overbased, sulfurized, including distillates (petroleum), hydrotreated, solvent-refined, solvent dewaxed, or catalytic dewaxed, light or heavy paraffinic C10-C50 (N/D)</b>	
LC50 fish 1	1 - 10 g/l (LL50, Cavedano americano) (OECD 203)
LC50 other aquatic organisms 1	40 mg/l
EC50 Daphnia 1	1 g/l (EL50, OECD TG 202)
EC50 96h algae (1)	500 mg/l (EL50, OECD TG 201)
NOEC chronic fish	1 g/l (NOELR)
NOEC chronic crustacea	100 mg/l (NOELR, 48h)
NOEC chronic algae	500 mg/l (NOELR, 96h)
<b>Calcium carbonate (471-34-1)</b>	
EC50 72h algae (1)	14 mg/l
<b>Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts</b>	
LC50 fish 1	≥ 100 mg/l LL50/96h, OECD 203 (WAF) (Read-across) - Oncorhynchus mykiss - Goodband, T.J. (2005a)
LC50 fish 2	≥ 10000 mg/l LL50/96h, OECD 203 (WAF) (Read-across) - Cyprinodon variegatus - Nicholson, R.B. (1986)
EC50 Daphnia 1	≥ 1000 mg/l EC50/48h, EPA OTS 797.1300 (WAF) (Read-across) - Ward, T.J (1993)
EC50 72h algae (1)	≥ 100 mg/l LL50/96h, OECD 201 (WAF) (Read-across) - Scenedesmus subspicatus - Mead, C. (2005)
ErC50 (algae)	≥ 1000 mg/l EC50/72h, EPA OTS 797.1050 (WAF) (Read-across) - Pseudokirchnerella subcapitata - Ward, T.J (1994)
<b>12.2. Persistence and degradability</b>	
<b>Eni Acer MPK 220</b>	
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.
<b>Residual oils (petroleum,) solvent-refined (64742-01-4)</b>	
Persistence and degradability	Substance is complex UVCB. The test methods for this endpoint are not applicable to UVCB substances.
<b>Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated (101316-72-7)</b>	
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.
<b>Phenol, isopropylated, phosphate (3:1) (68937-41-7)</b>	
Biodegradation	17,9 % (28d)
<b>Polysulfides, Di-tert-dodecyl- (68425-15-0)</b>	
Persistence and degradability	Not biodegradable.
Biodegradation	0 % (28d; OECD 301F)
<b>Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligermization, carbonate, calcium salts, overbased, sulfurized, including distillates (petroleum), hydrotreated, solvent-refined, solvent dewaxed, or catalytic dewaxed, light or heavy paraffinic C10-C50 (N/D)</b>	
Persistence and degradability	Product is biodegradable with difficulty.
Biodegradation	13,4 % (28d, OECD TG 301 B)
<b>Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts</b>	
Persistence and degradability	Not readily biodegradable.
Biodegradation	8 % (28d - OECD Guideline 301 D)

# Eni Acer MPK 220

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### 12.3. Bioaccumulative potential

Eni Acer MPK 220	
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.
Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated (101316-72-7)	
Bioaccumulative potential	The test methods for this endpoint are not applicable to UVCB substances.
Polysulfides, Di-tert-dodecyl- (68425-15-0)	
Bioconcentration factor (BCF REACH)	< 1 (14 d, 22 °C, OCDE 305)
Log Pow	5
Log Kow	> 12
Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligermization, carbonate, calcium salts, overbased, sulfurized, including distillates (petroleum), hydrotreated, solvent-refined, solvent dewaxed, or catalytic dewaxed, light or heavy paraffinic C10-C50 (N/D)	
Bioconcentration factor (BCF REACH)	2,2
Log Pow	9,5
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	
BCF fish 1	70,8 (L/Kg w/w)
Log Pow	6,91
Log Kow	8 (OECD Guideline 107 (EU Method A.8))

### 12.4. Mobility in soil

Eni Acer MPK 220	
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.
Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated (101316-72-7)	
Ecology - soil	The test methods for this endpoint are not applicable to UVCB substances.
Polysulfides, Di-tert-dodecyl- (68425-15-0)	
Log Koc	8,5
Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligermization, carbonate, calcium salts, overbased, sulfurized, including distillates (petroleum), hydrotreated, solvent-refined, solvent dewaxed, or catalytic dewaxed, light or heavy paraffinic C10-C50 (N/D)	
Ecology - soil	Product adsorbs onto the soil.
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts	
Log Koc	15,65 - 15,75 (QSAR, Chemservice S.A. (2013a))

### 12.5. Results of PBT and vPvB assessment

Eni Acer MPK 220	
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	
Component	
Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated (101316-72-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII This substance does not meet the criteria for classification as PBT or vPvB. The product should be considered prudentially as "Persistent" in the environment, according to the REACH Annex XIII criteria (point 1.1)
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts ()	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII This substance does not meet the criteria for classification as PBT or vPvB. The product should be considered prudentially as "Persistent" in the environment, according to the REACH Annex XIII criteria (point 1.1)
Residual oils (petroleum,) solvent-refined (64742-01-4)	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
Polysulfides, Di-tert-dodecyl- (68425-15-0)	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

### 12.6. Other adverse effects

Other adverse effects : None.

# Eni Acer MPK 220

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Additional information : No other effects known

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

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. 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.

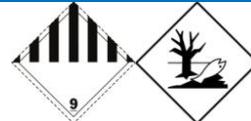
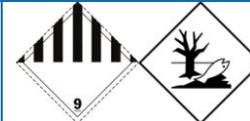
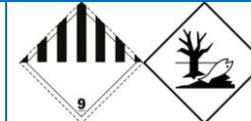
Product/Packaging disposal recommendations : European Waste Catalogue code(s) (Decision 2001/118/CE): 13 02 05\* (mineral-based non-chlorinated engine, gear and lubricating oils). This EWC code is only a general indication, and takes into account the original composition of the product and its intended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

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

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

### SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
3082	3082	3082	3082	3082
<b>14.2. UN proper shipping name</b>				
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	Environmentally hazardous substance, liquid, n.o.s.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
<b>Transport document description</b>				
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Phenol, isopropylated, phosphate (3:1)), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance, liquid, n.o.s., 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III
<b>14.3. Transport hazard class(es)</b>				
9	9	9	9	9
				
<b>14.4. Packing group</b>				
III	III	III	III	III
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
None.				

#### 14.6. Special precautions for user

##### - Overland transport

Transport regulations (ADR) : Subject to the provisions

Classification code (UN) : M6

Limited quantities (ADR) : 5l

Excepted quantities (ADR) : E1

Transport category (ADR) : 3

Hazard identification number (Kemler No.) : 90

Orange plates :



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Tunnel restriction code : -

### - Transport by sea

Transport regulations (IMDG) : Subject to the provisions  
Limited quantities (IMDG) : 5 L  
Excepted quantities (IMDG) : E1  
IBC packing instructions (IMDG) : IBC03  
EmS-No. (Fire) : F-A  
EmS-No. (Spillage) : S-F  
Stowage category (IMDG) : A

### - Air transport

Transport regulations (IATA) : Subject to the provisions  
PCA Excepted quantities (IATA) : E1  
PCA Limited quantities (IATA) : Y964  
PCA limited quantity max net quantity (IATA) : 30kgG  
PCA max net quantity (IATA) : 450L  
CAO max net quantity (IATA) : 450L

### - Inland waterway transport

Transport regulations (ADN) : Subject to the provisions  
Classification code (ADN) : M6  
Limited quantities (ADN) : 5 L  
Excepted quantities (ADN) : E1

### - Rail transport

Transport regulations (RID) : Subject to the provisions  
Classification code (RID) : M6  
Limited quantities (RID) : 5L  
Excepted quantities (RID) : E1  
Transport category (RID) : 3  
Hazard identification number (RID) : 90

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

IBC code : Not applicable.

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

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

3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	Eni Acer MPK 220 - Phenol, isopropylated, phosphate (3:1) - Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligermization, carbonate, calcium salts, overbased, sulfurized, including distillates (petroleum), hydrotreated, solvent-refined, solvent dewaxed, or catalytic dewaxed, light or heavy paraffinic C10-C50
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Eni Acer MPK 220 - Phenol, isopropylated, phosphate (3:1) - Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligermization, carbonate, calcium salts, overbased, sulfurized, including distillates (petroleum), hydrotreated, solvent-refined, solvent dewaxed, or catalytic dewaxed, light or heavy paraffinic C10-C50

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

Contains no REACH Annex XIV substances

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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 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC. Regulation EU (649/2012) - Export and Import of hazardous chemicals (PIC).

### 15.1.2. National regulations

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

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

Relevant national laws on prevention of water pollution.

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

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

#### France

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

#### Germany

Reference to AwSV : Water hazard class (WGK) (D) 3, Highly 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 (BGBl 2017, Teil I, Nr. 22, Seite 905).

VbF class (D) : Not applicable.

Storage class (LGK) (D) : LGK 10 - Combustible liquids that cannot be assigned to any of the above storage classes

Employment restrictions : Employment prohibitions or restrictions on the protection of young people at work according to § 22 JArbSchG in the case of formation of hazardous substances have to be observed.

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Other information, restrictions and prohibition regulations : 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 560: Air recirculation in activities involving carcinogenic, mutagenic or toxic for reproduction dusts  
TRGS 800: Fire protection measures  
TRGS 900: Occupational Exposure Limits  
TRGS 905: List of carcinogenic, mutagenic or toxic for reproduction substances  
TRGS 910: Risk-related concept of measures for activities involving carcinogenic hazardous substances

#### Netherlands

Waterbezuwaarlijkheid : 6 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
7 - Toxic to aquatic organisms

Saneringsinspanningen : C - Minimize discharge

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

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

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

# Eni Acer MPK 220

## Safety Data Sheet

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### Denmark

Danish National Regulations : Pregnant/breastfeeding women working with the product must not be in direct contact with it

### 15.2. Chemical safety assessment

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

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

Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated  
Benzenesulfonic acid, di-C10-14-alkyl derivs., calcium salts  
Calcium carbonate  
Residual oils (petroleum,) solvent-refined  
Phenol, isopropylated, phosphate (3:1)  
Polysulfides, Di-tert-dodecyl-  
Phenol, paraalkylation products with C10-15 branched olefins (C12 rich) derived from propene oligermization, carbonate, calcium salts, overbased, sulfurized, including distillates (petroleum), hydrotreated, solvent-refined, solvent dewaxed, or catalytic dewaxed, light or heavy paraffinic C10-C50

## SECTION 16: Other information

Indication of changes:

Section	Changed item	Change	Notes
2.1	Classification according to Regulation (EC) No. 1272/2008 [EU-GHS / CLP]	Modified	
2.1	Adverse physicochemical, human health and environmental effects	Modified	
2.2	Hazard pictograms (CLP)	Modified	
2.2	Precautionary statements (CLP)	Modified	
2.2	Hazard statements (CLP)	Modified	
2.3	Other hazards not contributing to the classification	Modified	
4.2	Symptoms/effects after skin contact	Modified	
9.1	Critical temperature	Added	
9.1	Critical pressure	Added	
9.1	Boiling point	Added	
9.1	Auto-ignition temperature	Added	
9.1	Freezing point	Added	
9.1	pH	Removed	
9.1	Vapour pressure	Modified	
11.1	Potential adverse human health effects and symptoms	Modified	
12.1	Ecology - water	Modified	
12.1	Ecology - general	Modified	
14.1	UN-No. (IMDG)	Added	
14.1	UN-No. (ICAO)	Added	
14.1	UN-No. (ADN)	Added	
14.1	UN-No.	Added	
14.1	UN-No. (RID)	Added	
14.2	Proper Shipping Name (ADN)	Added	
14.2	Proper Shipping Name (IATA)	Added	
14.2	Proper Shipping Name (RID)	Added	
14.2	Proper Shipping Name (IMDG)	Added	
14.2	Proper Shipping Name	Modified	
14.3	Danger labels (ADN)	Added	
14.3	Danger labels (ICAO)	Added	
14.3	Danger labels (RID)	Added	
14.3	Danger labels (IMDG)	Added	
14.3	Danger labels (UN)	Added	
14.3	Class (UN)	Modified	
14.4	Packing group (IATA)	Modified	
14.4	Packing group (RID)	Modified	
14.4	Packing group (ADN)	Modified	
14.4	Packing group (IMDG)	Modified	
14.4	Packing group (UN)	Modified	
14.6	Limited quantities (ADN)	Added	
14.6	Excepted quantities (ADN)	Added	

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According to Regulation (EU) No. 830/2015

14.6	Transport regulations (IMDG)	Modified	
14.6	Transport regulations (RID)	Modified	
14.6	PCA max net quantity (IATA)	Added	
14.6	PCA limited quantity max net quantity (IATA)	Added	
14.6	PCA Limited quantities (IATA)	Added	
14.6	PCA Excepted quantities (IATA)	Added	
14.6	CAO max net quantity (IATA)	Added	
14.6	Limited quantities (RID)	Added	
14.6	Transport regulations (ADR)	Modified	
14.6	Transport regulations (ADN)	Modified	
14.6	Transport regulations (IATA)	Modified	
14.6	Classification code (ADN)	Added	
14.6	Hazard identification number (RID)	Added	
14.6	Transport category (RID)	Added	
14.6	Excepted quantities (RID)	Added	
14.6	Classification code (RID)	Added	
14.6	EmS-No. (Spillage)	Added	
14.6	EmS-No. (Fire)	Added	
14.6	Limited quantities (IMDG)	Added	
14.6	Stowage category (IMDG)	Added	
14.6	IBC packing instructions (IMDG)	Added	
14.6	Excepted quantities (IMDG)	Added	
14.6	Transport category (ADR)	Added	
14.6	Limited quantities (ADR)	Added	
14.6	Hazard identification number (Kemler No.)	Added	
14.6	Classification code (UN)	Added	
14.6	Excepted quantities (ADR)	Added	
14.6	Tunnel restriction code	Modified	
15.1	Waterbezwaarlijkheid	Modified	
15.1	Water hazard class (WGK) (D)	Modified	
15.1	WGK remark	Modified	
15.1	REACH Annex XVII	Modified	
16	Other information	Modified	
16	Indication of changes	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
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Effective concentration for 50 percent of test population (median effective concentration)
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Lethal concentration for 50 percent of test population (median lethal concentration)
LD50	Lethal dose for 50 percent of test population (median lethal dose)
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals, Regulation (EC) No 1907/2006

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## Safety Data Sheet

According to Regulation (EU) No. 830/2015

RID	Regulation concerning the International Carriage of Dangerous Goods by Railways
SDS	Safety Data Sheet
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

Data sources	: 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. In exceptional cases (i.e prolonged storage in tanks contaminated with water, and presence of anaerobic sulfate-reducing microbial colonies), the product may undergo a degradation and generate small amounts of sulfur compounds, including H <sub>2</sub> S. This situation is especially relevant in all those circumstances which require to enter a confined space, with direct exposure to the vapours. If there is any suspicion of inhalation of H <sub>2</sub> S (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. If this possibility is suspected, a specific assessment of inhalation risks from the presence of H <sub>2</sub> S in confined spaces must be made, to help determine prevention measures and controls (i.e. PPE) appropriate to local circumstances, and adequate emergency procedures. This situation is especially relevant for those operations which involve direct exposure to the vapours in the interior of tanks or other confined spaces. Therefore, it is very important to follow the above mentioned precautionary measures also with used oils.

Full text of H- and EUH-statements:

Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 4	Hazardous to the aquatic environment — Chronic Hazard, Category 4
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H360	May damage fertility or the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

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

Repr. 1B	H360	Concentration limits
Aquatic Chronic 2	H411	Calculation method

SDS EU (REACH Annex II)

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