

**Safety Data Sheet**  
according to 1907/2006/EC, Article 31

Printing date 19.03.2024

Version number 1

Revision: 19.03.2024

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

**1.1 Product identifier**

Trade name: **Pieri Cire E-31**

Safety data sheet no.: 358P1126

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

The product is intended for industrial or professional use.

**Application of the substance / the mixture** Construction chemicals

**1.3 Details of the supplier of the safety data sheet**

**Manufacturer/Supplier:**

Saint-Gobain Finland Oy / Weber

PL 70

(Strömberginkuja 2)

FIN-00381 Helsinki

Tel. +358-(0)10-44 22 00

Fax +358-(0)10-44 22 295

DL-productsafety.fi@saint-gobain.com

www.fi.weber

**1.4 Emergency telephone number:**

0800 147 111 (toll-free)

09 471 977 (standard rate)

Finnish Poison Information Centre

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 3 H226 Flammable liquid and vapour.

STOT SE 3 H336 May cause drowsiness or dizziness.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

**2.2 Label elements**

**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms**



GHS02 GHS07 GHS08

**Signal word** Danger

**Hazard-determining components of labelling:**

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

**Hazard statements**

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H304 May be fatal if swallowed and enters airways.

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### Precautionary statements

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

### 2.3 Other hazards

#### Results of PBT and vPvB assessment

**PBT:** Does not contain PBT substances.

**vPvB:** Does not contain vPvB substances.

#### Determination of endocrine-disrupting properties

Does not contain substances with endocrine-disrupting properties.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Description:** Additive

#### Dangerous components:

CAS: 64742-48-9 EC number: 919-857-5 Reg.nr.: 01-2119463258-33-xxxx	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336, EUH066	75-100%
EC number: 918-481-9 Reg.nr.: 01-2119457273-39-xxxx	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics Asp. Tox. 1, H304, EUH066	1-2%
CAS: 61791-53-5 EINECS: 263-186-4	Amines, N-tallow alkyltrimethylènedi-, oleates STOT RE 2, H373; Aquatic Acute 1, H400 (M=10); Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412 Specific concentration limit: STOT RE 2; H373: C ≥50 %	≥0.25-<1%
CAS: 34140-91-5 EINECS: 251-846-4 Reg.nr.: 01-2119974119-29-xxxx	oleic acid compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1) STOT RE 2, H373; Aquatic Acute 1, H400 (M=10); Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319	≥0.1-<0.25%
EC number: 947-969-4 Reg.nr.: 01-2120770766-41-xxxx	Phosphoric Acid, Esters with Alcohols, C11-14 iso, C13-rich Skin Corr. 1A, H314; Eye Dam. 1, H318; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 2, H411	≥0.1-<0.25%

**SVHC** Void

**Additional information** For the wording of the listed hazard phrases refer to section 16.

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### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### General information

Remove the victim immediately from the danger area. If the patient is unwell consult a doctor and present this data sheet.

Immediately remove any clothing soiled by the product.

**After inhalation** Supply fresh air; consult doctor in case of complaints.

**After skin contact** Immediately wash with water and soap and rinse thoroughly.

##### After eye contact

Rinse immediately and abundantly with water. Seek medical attention, if pain or redness persists. Remove contact lenses, if possible. Continue rinsing

##### After swallowing

Rinse out mouth with water. Do not induce vomiting. Seek medical attention and present this data sheet.

Swallowing can lead to aspiration and chemical pneumonitis.

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

No further relevant information available.

**Hazards** Risk of aspiration when vomiting.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### Suitable extinguishing agents

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray.

Use fire extinguishing methods suitable to surrounding conditions.

**For safety reasons unsuitable extinguishing agents** Water with full jet

**5.2 Special hazards arising from the substance or mixture** No further relevant information available.

#### 5.3 Advice for firefighters

**Protective equipment:** Wear self-contained respiratory protective device.

##### Additional information

Cool endangered receptacles with water spray.

Collect contaminated fire fighting water separately. It must not enter the sewage system.

### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources

#### 6.2 Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

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

Send for recovery or disposal in suitable receptacles.

Ensure adequate ventilation.

#### 6.4 Reference to other sections

See Section 7 for information on safe handling

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See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

Do not drink or eat while working. Wash hands thoroughly before breaks and after finishing work.

Use only in well ventilated areas.

Keep receptacles tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Flammable mixtures with air can be formed in emptied containers. Do not puncture, cut, drill, heat or weld uncleaned drums.

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Use explosion-proof apparatus / fittings and spark-proof tools.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Ground and bond container and receiving equipment.

**7.2 Conditions for safe storage, including any incompatibilities**

**Storage**

**Requirements to be met by storerooms and receptacles:**

Use only receptacles specifically permitted for this substance/product.

Store only in unopened original receptacles.

**Information about storage in one common storage facility:** Store away from foodstuffs.

**Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

**7.3 Specific end use(s)** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Ingredients with limit values that require monitoring at the workplace:**

**DNELs**

**CAS: 64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

Oral	Derived No Effect Level	46 mg/kgxday (consumer systemic short term value)
Dermal	Derived No Effect Level	77 mg/kgxday (worker systemic long term value)
Inhalative	Derived No Effect Level	46 mg/kgxday (consumer systemic long term value)
		871 mg/m <sup>3</sup> (worker systemic long term value)
		185 mg/m <sup>3</sup> (consumer systemic long term value)

**CAS: 34140-91-5 oleic acid compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1)**

Oral	Derived No Effect Level	0.05 mg/kgxday (consumer systemic long term value)
Dermal	Derived No Effect Level	0.014 mg/kgxday (worker systemic long term value)
Inhalative	Derived No Effect Level	0.005 mg/kgxday (consumer systemic long term value)
		0.0984 mg/m <sup>3</sup> (worker systemic long term value)

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		0.0174 mg/m <sup>3</sup> (consumer systemic long term value)
<b>Phosphoric Acid, Esters with Alcohols, C11-14 iso, C13-rich</b>		
Oral	Derived No Effect Level	0.417 mg/kgxday (consumer systemic long term value)
Dermal	Derived No Effect Level	1.05 mg/kgxday (worker systemic long term value)
		0.375 mg/kgxday (consumer systemic long term value)
Inhalative	Derived No Effect Level	7.4 mg/m <sup>3</sup> (worker systemic long term value)
		1.31 mg/m <sup>3</sup> (consumer systemic long term value)
<b>PNECs</b>		
<b>CAS: 34140-91-5 oleic acid compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1)</b>		
Predicted No-Effect Concentration		1.1 mg/kgxdwt (earth rating factor)
Predicted No-Effect Concentration		0.00646 mg/l (fresh water rating factor)
<b>Phosphoric Acid, Esters with Alcohols, C11-14 iso, C13-rich</b>		
Predicted No-Effect Concentration		0.417 mg/kgxdwt (earth rating factor)
Predicted No-Effect Concentration		0.00562 mg/l (fresh water rating factor)
<b>CAS No. / Designation of material / % / Type / Value / Unit</b>		
<b>CAS: 64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics</b>		
MAK (Germany)	Long-term value: 300 mg/m <sup>3</sup> , 50 ppm vgl. Abschn. Xc	

**8.2 Exposure controls****Appropriate engineering controls** No further data; see section 7.**Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not eat, drink, smoke or sniff while working.

**Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device.

In case of intensive or longer exposure use self-contained respiratory protective device.

**Hand protection**

Protective gloves against chemicals (standard EN 374-1)

The glove material has to be impermeable and resistant to the product/ the substance/ the mixture.

The hands must be cleaned from the powder before putting on the gloves.

Check protective gloves prior to each use for their proper condition.

**Material of gloves** Nitrile rubber, NBR**Eye/face protection**

Safety glasses.

Face protection

**Body protection:** Protective work clothing.

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**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**General Information**

<b>Physical state</b>	Fluid
<b>Colour:</b>	Amber coloured
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.
<b>Melting point/freezing point:</b>	Undetermined.
<b>Boiling point or initial boiling point and boiling range</b>	180 °C (DIN)
<b>Flammability</b>	Flammable.
<b>Lower and upper explosion limit</b>	
<b>Lower:</b>	0.6 Vol %
<b>Upper:</b>	7 Vol %
<b>Flash point:</b>	42 °C (DIN ISO 2592)
<b>Auto-ignition temperature:</b>	Not determined.
<b>Decomposition temperature:</b>	Not determined.
<b>pH</b>	Not determined.
<b>Viscosity:</b>	
<b>Kinematic viscosity at 20 °C</b>	<6 mm <sup>2</sup> /s
<b>dynamic:</b>	Not determined.
<b>Solubility</b>	
<b>Water:</b>	Fully miscible
<b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
<b>Vapour pressure at 20 °C:</b>	1 hPa (DIN 51640)
<b>Density and/or relative density</b>	
<b>Density at 20 °C:</b>	0.8 g/cm <sup>3</sup> (DIN 51757)
<b>Relative density</b>	Not determined.
<b>Bulk density:</b>	Not applicable.
<b>Vapour density</b>	Not determined.

**9.2 Other information**

<b>Appearance:</b>	
<b>Form:</b>	Liquid
<b>Important information on protection of health and environment, and on safety.</b>	
<b>Ignition temperature:</b>	Not determined.
<b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
<b>Minimum ignition energy</b>	
<b>Solvent separation test:</b>	Not applicable.
<b>EU-VOC (%)</b>	64.3900 %
<b>EU-VOC (g/L)</b>	
<b>Solids content:</b>	0.0 %
<b>Change in condition</b>	
<b>Softening point/range</b>	
<b>Oxidising properties</b>	Not determined.
<b>Evaporation rate</b>	Not determined.

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**Information with regard to physical hazard**

**classes**

<b>Explosives</b>	Void
<b>Flammable gases</b>	Void
<b>Aerosols</b>	Void
<b>Oxidising gases</b>	Void
<b>Gases under pressure</b>	Void
<b>Flammable liquids</b>	Flammable liquid and vapour.
<b>Flammable solids</b>	Void
<b>Self-reactive substances and mixtures</b>	Void
<b>Pyrophoric liquids</b>	Void
<b>Pyrophoric solids</b>	Void
<b>Self-heating substances and mixtures</b>	Void
<b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
<b>Oxidising liquids</b>	Void
<b>Oxidising solids</b>	Void
<b>Organic peroxides</b>	Void
<b>Corrosive to metals</b>	Void
<b>Desensitised explosives</b>	Void

**SECTION 10: Stability and reactivity**

**10.1 Reactivity** No further relevant information available.

**10.2 Chemical stability** Stable at recommended storage conditions

**Thermal decomposition / Conditions to be avoided:**

No decomposition if used according to specifications.

**10.3 Possibility of hazardous reactions** No dangerous reactions known

**10.4 Conditions to avoid** Avoid heat, sparkles, naked flame or other sources of ignition.

**10.5 Incompatible materials:** No further relevant information available.

**10.6 Hazardous decomposition products:**

Carbon monoxide

Carbon dioxide

**SECTION 11: Toxicological information**

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

**Acute toxicity** Based on available data, the classification criteria are not met.

**LD/LC50 values relevant for classification:**

Components	/	Type	/	Value	/	Species
<b>CAS: 64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics</b>						
Oral	LD50	>15,000 mg/kg	(Rat)			
Dermal	LD50	>3,160 mg/kg	(Rabbit)			
<b>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics</b>						
Oral	LD50	>15,000 mg/kg	(Rat)			
Dermal	LD50	>3,160 mg/kg	(Rabbit)			

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**CAS: 34140-91-5 oleic acid compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1)**

Oral LD50 >2,000 mg/kg (Rat)

Dermal LD50 >2,000 mg/kg (Rat)

**Phosphoric Acid, Esters with Alcohols, C11-14 iso, C13-rich**

Oral LD50 >2,500 mg/kg (Rat)

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation** Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT-single exposure** May cause drowsiness or dizziness.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** May be fatal if swallowed and enters airways.

**11.2 Information on other hazards**

**Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity:** Not classified as harmful to aquatic life

**Type of test / Effective concentration / Method / Assessment**

**CAS: 64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

LC50/96h 0.002-0.004 mg/l (aquatic invertebrates)

EC50/48h 0.002-0.004 mg/l (aquatic invertebrates)

NOEC (72h) 3-100 mg/l (aquatic algae and cyanobacteria)

NOEC (21d) 0.23 mg/l (aquatic invertebrates)

EC 10 1,000 mg/l (microorganisms)

**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

LC50/96h 0.002-0.004 mg/l (aquatic invertebrates)

EC50/48h 0.002-0.004 mg/l (aquatic invertebrates)

NOEC (72h) 100-1,000 mg/l (aquatic algae and cyanobacteria)

NOEC (21d) 0.176 mg/l (aquatic invertebrates)

EC 10 1,000 mg/l (microorganisms)

**CAS: 34140-91-5 oleic acid compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1)**

LC50/96h 0.95-1.35 mg/l (Fish)

EC50/96h 0.95-1.35 mg/l (Fish)

EC50/72h 0.00473-0.006 mg/l (aquatic algae and cyanobacteria)

NOEC (14d) 111.1-1,000 mg/l (terrestrial plants)

**Phosphoric Acid, Esters with Alcohols, C11-14 iso, C13-rich**

EC50/48h 5.62 mg/l (aquatic invertebrates)

EC50/72h 28.92 mg/l (aquatic algae and cyanobacteria)

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NOEC (72h)	6.53 mg/l (aquatic algae and cyanobacteria)
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NOEC (96h)	100 mg/l (Fish)
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EC 10	150 mg/l (microorganisms)
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**12.2 Persistence and degradability** No further relevant information available.

**Method**

**CAS: 64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

Biod. (28 days)	>90 %
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**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

Biod. (28 days)	>90 %
-----------------	-------

**CAS: 34140-91-5 oleic acid compound with (Z)-N-octadec-9-enylpropane-1,3-diamine (2:1)**

Biod. (28 days)	>90 %
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**Phosphoric Acid, Esters with Alcohols, C11-14 iso, C13-rich**

Biod. (28 days)	>90 %
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**12.3 Bioaccumulative potential**

**CAS: 64742-48-9 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

EBAB	3.17-6.23 log Pow
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**Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics**

EBAB	3.17-7.22 log Pow
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**Phosphoric Acid, Esters with Alcohols, C11-14 iso, C13-rich**

EBAB	3.98 log Pow
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**12.4 Mobility in soil** No further relevant information available.

**12.5 Results of PBT and vPvB assessment**

**PBT:** Does not contain PBT substances.

**vPvB:** Does not contain vPvB substances.

**12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**12.7 Other adverse effects**

**Behaviour in sewage processing plants:**

Type of test / Effective concentration / Method / Assessment
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**Phosphoric Acid, Esters with Alcohols, C11-14 iso, C13-rich**

EC 50 (3h)	420 mg/l (microorganisms)
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**Additional ecological information:**

**General notes:** Do not allow product to reach ground water, water course or sewage system.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Recommendation** Dispose of the product in accordance with national and local regulations.

**European waste catalogue**

07 01 04*	other organic solvents, washing liquids and mother liquors
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HP3	Flammable
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HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
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**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

**14.1 UN number or ID number**  
ADR, IMDG, IATA

UN1268

**14.2 UN proper shipping name**  
ADR  
IMDG, IATA

1268 PETROLEUM DISTILLATES, N.O.S.  
PETROLEUM DISTILLATES, N.O.S.

**14.3 Transport hazard class(es)**  
ADR



**Class**  
**Label**

3 (F1) Flammable liquids.  
3

IMDG, IATA



**Class**  
**Label**

3 Flammable liquids.  
3

**14.4 Packing group**  
ADR, IMDG, IATA

III

**14.5 Environmental hazards:**

Not applicable.

**14.6 Special precautions for user**  
**Hazard identification number (Kemler code):** 30  
**EMS Number:**  
**Segregation groups**  
**Stowage Category**

Warning: Flammable liquids.  
F-E,S-E  
(SGG1) Acids  
A

**14.7 Maritime transport in bulk according to**  
**IMO instruments**

Not applicable.

**Transport/Additional information:**

**ADR**

**Limited quantities (LQ)**  
**Excepted quantities (EQ)**

5L  
Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

**Transport category**

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<b>Tunnel restriction code</b>	D/E
<b>IMDG</b>	
<b>Limited quantities (LQ)</b>	5L
<b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
<b>UN "Model Regulation":</b>	UN 1268 PETROLEUM DISTILLATES, N.O.S. 3, III

### SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 (REACH) (Candidate List, Annexes XIV and XVII)

Regulation (EC) No 1272/2008 (CLP)

Regulation (EU) 2020/878 (amending REACH Annex II on the compilation of safety data sheets)

**Labelling according to Regulation (EC) No 1272/2008** cf. section 2

#### Directive 2012/18/EU

**Named dangerous substances - ANNEX I** None of the ingredients is listed.**Seveso category** P5c FLAMMABLE LIQUIDS**Qualifying quantity (tonnes) for the application of lower-tier requirements** 5,000 t**Qualifying quantity (tonnes) for the application of upper-tier requirements** 50,000 t**REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

#### DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

#### REGULATION (EU) 2019/1148

#### Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

#### Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

#### Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

#### Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

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EUG

**Safety Data Sheet**  
according to 1907/2006/EC, Article 31

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**Relevant phrases**

The following list of relevant hazard statements is the full text of hazard statements mentioned elsewhere in this safety data sheet (in particular in the section 3) and is reported as required by the Regulation (EC) No 1907/2006 (REACH), Annex II, and the following amendments (Regulation (EU) 2020/878). The statements mentioned here do not refer to the product itself, but refer to the individual ingredients in the products, and are provided for information.

- H226 Flammable liquid and vapour.
- H304 May be fatal if swallowed and enters airways.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.
- H411 Toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.

**Classification according to Regulation (EC) No 1272/2008**

Flammable liquids	Bridging principles
Specific target organ toxicity (single exposure)	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
Aspiration hazard	Expert judgement

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**Abbreviations and acronyms:**

- ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)
- ICAO: International Civil Aviation Organisation
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- DNEL: Derived No-Effect Level (REACH)
- PNEC: Predicted No-Effect Concentration (REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- SVHC: Substances of Very High Concern (REACH regulation)
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 3: Flammable liquids – Category 3
- Skin Corr. 1A: Skin corrosion/irritation – Category 1A
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Dam. 1: Serious eye damage/eye irritation – Category 1
- Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

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STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

**\* Data compared to the previous version altered.**

According to Annex II of the REACH regulation, the modified sections in this version of the Safety Data Sheet in comparison with the previous one are marked with asterisks.

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