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

1.1 Product identifier

Trade name/designation UNIMIX

Unique Formula Identifier UFI: VS50-300P-G00J-5J76

Product category PC-TEC-11 Lubricants, greases, release agents

Hazard components
mixture of dearomatized hydrocarbons (<0,1% aromatics) [Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics], White mineral oil (paraffin oil)

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

Sector of uses [SU]
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU3 Industrial uses

Use of the substance/mixture
Ready-for-use rinsing agent with reoiling properties useful after the cleaning and the rinsing and before the drying step of metallic precision parts.

Uses advised against
Do not use for injecting or spraying.

1.3 Details of the supplier of the safety data sheet

Supplier
Elma Schmidbauer GmbH
Gottlieb-Daimler-Str. 17
D-78224 Singen (Htwl.)
Telephone +49 7731 882-0
Telefax +49 7731 882-266
E-mail info@elma-ultrasonic.com
Website www.elma-ultrasonic.com

Department responsible for information:
Chemie/Labor: Email: chemlab@elma-ultrasonic.com

* 1.4 Emergency telephone number

Vergiftungs-Informations-Zentrale Freiburg (Sprache/Language: DE, EN) +49 761 19240

* SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
Flam. Liq. 3, H226	On basis of test data.
Eye Irrit. 2, H319	Calculation method.
STOT SE 3, H336	Calculation method.
Asp. Tox. 1, H304	Expert judgement and weight of evidence determination.
Aquatic Chronic 3, H412	Calculation method.

Hazard statements for physical hazards
H226 Flammable liquid and vapour.

Hazard statements for health hazards
H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Hazard statements for environmental hazards
H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

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

Hazard components
mixture of dearomatized hydrocarbons (<0,1% aromatics) [Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics], White mineral oil (paraffin oil)

Hazard pictograms



GHS02 GHS07 GHS08

Signal word
Danger

Hazard statements
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements
P405 Store locked up.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear eye protection.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331 Do NOT induce vomiting.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P312 Call a POISON CENTER/doctor if you feel unwell.

Supplemental hazard information
EUH066 Repeated exposure may cause skin dryness or cracking.

* 2.3 Other hazards

* **Adverse human health effects and symptoms**
Skin Irrit. 3 H316: Causes mild skin irritation.
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

* **Adverse environmental effects**
Aquatic Acute 3 H402: Harmful to aquatic life.
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Results of PBT and vPvB assessment
The product does not contain any PBT-/vPvB-substances according to the recipe.

* SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

* **3.2 Mixtures**

Hazardous ingredients

CAS No	EC No	Index No	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
	927-241-2		mixture of dearomatized hydrocarbons (<0,1% aromatics) [Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics]	90 - 100 weight-%	Flam. Liq. 3; H226 STOT SE 3; H336 Asp. Tox. 1; H304 Aquatic Chronic 3; H412; EUH066	
8042-47-5	232-455-8		White mineral oil (paraffin oil)	< 5 weight-%	Asp. Tox. 1; H304; EUH066	
763-32-6	212-110-8		3-methylbut-3-en-1-ol	< 3 weight-%	Flam. Liq. 3; H226 Eye Dam. 1; H318 STOT RE 2; H373	
107-98-2	203-539-1	603-064-00-3	1-methoxy-2-propanol	< 1 weight-%	Flam. Liq. 3; H226 STOT SE 3; H336	

REACH No.	Substance name
01-2119471843-32	mixture of dearomatized hydrocarbons (<0,1% aromatics) [Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics]
01-2119487078-27	White mineral oil (paraffin oil)
01-2119438443-41	3-methylbut-3-en-1-ol
01-2119457435-35	1-methoxy-2-propanol

Additional information
Mixture of hydrocarbons, aromatics removed, and additives of alkoxy with small additions of different oils, with siliconoil.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information
Remove contaminated, saturated clothing immediately.
Remove casualty to fresh air and keep warm and at rest.

Following inhalation
Remove casualty to fresh air and keep warm and at rest.
In the event of symptoms refer for medical treatment.

Following skin contact
After contact with skin, wash immediately with plenty of water and soap.
In case of skin irritation, consult a physician.

After eye contact
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Following ingestion
Do NOT induce vomiting.
Call a physician immediately.
If swallowed seek medical advice immediately and show the doctor packing or label.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms
Dizziness

Effects
In case of ingestion risk of pulmonary oedema and pneumonia.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor
Subsequent observance for pneumonia and lung oedema.
If swallowed, flush stomach adding activated charcoal.
Keep under medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
alcohol resistant foam
Extinguishing powder
Carbon dioxide (CO_2)
Water spray jet

Unsuitable extinguishing media
Full water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products
Flammable vapor-air-mixture are more heavy than air. Inflammation over far distance is possible.
In the event of fire the following can be released:
Carbon monoxide

5.3 Advice for firefighters

Special protective equipment for firefighters
Do not inhale explosion and combustion gases.

Additional information
Fire class
B (Fires of liquids or liquid turning substances).
Use water spray jet to protect personnel and to cool endangered containers.
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Provide adequate ventilation.
Use personal protection equipment.
Remove all sources of ignition.

For emergency responders
Ensure adequate ventilation.
Remove persons to safety.
Personal protection equipment
Use personal protection.
Remove all sources of ignition.
Use breathing apparatus if exposed to vapours/dust/aerosol.
Pay attention to extension of gas especially at ground (heavier than air) and in direction of the wind.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.
Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

For containment
Send in suitable containers for recovery or disposal.
Take up with absorbent material (e.g. oil binder).

6.4 Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures
Keep away from sources of ignition - No smoking.
Handle and open container with care.
Avoid:
generation/formation of aerosols
Do not inhale gases/vapours/aerosols.
Use only in well-ventilated areas.
Keep container tightly closed.
Avoid contact with eyes and skin.
Keep limited supplies at workplace.
Vapours are heavier than air.
Provide room air exhaust at ground level.
Suitable container/equipment material:
Material, solvent-resistant
Vapours can form explosive mixtures with air.
Ignitable mixtures can be formed in the empty container.
Take precautionary measures against static discharges.
Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity.
Keep in a cool, well-ventilated place.

Advices on general occupational hygiene
Make available sufficient washing facilities
Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels
Ensure adequate ventilation of the storage area.
Keep only in unopened original container.

Materials to avoid
Do not store together with:
Oxidising agent

Further information on storage conditions
Keep locked up and out of reach of children.
Keep locked up.
Store in a place accessible by authorized persons only.
Protect from heat and direct solar radiation.
Storage time: 3 years.

7.3 Specific end use(s)

Recommendation
See section 1.2

* SECTION 8: Exposure controls/personal protection

* 8.1 Control parameters

* **Occupational exposure limit values**

CAS No	EC No	Substance name	occupational exposure limit value
107-98-2	203-539-1	1-Methoxypropanol-2	100 [ml/m³(ppm)] 375 [mg/m³] Short-term(ml/m³) 150 Short-term(mg/m³) 568 skin resorptive 2000/39/EC

* **DNEL worker**

CAS No	Substance name	DNEL value	DNEL type	Remark
	mixture of dearomatized hydrocarbons (<0,1% aromatics) [Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics]	77 mg/kg bw/day	long-term dermal (systemic)	Assessment factor 24
	mixture of dearomatized hydrocarbons (<0,1% aromatics) [Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics]	871 mg/m³	long-term inhalative (systemic)	Assessment factor 6
107-98-2	1-methoxy-2-propanol	183 mg/kg bw/day	long-term dermal (systemic)	
107-98-2	1-methoxy-2-propanol	369 mg/m³	long-term inhalative (systemic)	

* **PNEC**

CAS No	Substance name	PNEC Value	PNEC type	Remark
107-98-2	1-methoxy-2-propanol	10 mg/L	aquatic, freshwater	Assessment factor 100
107-98-2	1-methoxy-2-propanol	100 mg/L	sewage treatment plant (STP)	Assessment factor 10

8.2 Exposure controls

Appropriate engineering controls

Technical measures to prevent exposure
Technical exhaustion if there is a long-term exposition

Personal protection equipment

Eye/face protection
tightly fitting goggles

Hand protection
Gloves (solvent-resistent)
Glove material specification [make/type, thickness]: FKM, 0.4mm.

Respiratory protection
Respiratory protection necessary at:
insufficient exhaust
prolonged exposure
Suitable respiratory protection apparatus:
Short term: filter apparatus, filter A

Environmental exposure controls

Technical measures to prevent exposure
Avoid penetration into the subsoil/soil.
Do not discharge into the drains/surface waters/groundwater.

Additional information
Occupational exposure limits for mixtures of hydrocarbons.

* SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state
liquid

Colour
pale yellowish

Odour
characteristic

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:			not determined
Melting point/freezing point	Solidifying point < -12 °C		
Boiling point or initial boiling point and boiling range	80 °C		
flammability	solid		not applicable
flammability	gaseous		not applicable
Lower and upper explosion limit	Upper explosion limit 8 %		
Lower and upper explosion limit	Lower explosion limit 0.6 %		
Flash point	23- 28 °C		
Auto-ignition temperature	> 200 °C		
Decomposition temperature	> 200 °C		
pH	in delivery state		not applicable
Viscosity	kinematic approx. 1 mm²/s (20°C)		
Solubility(ies)	Water solubility		partially soluble
Partition coefficient n-octanol/water (log value)	approx.4.5- 6.5		Value of hydrocarbon components.
Vapour pressure	27 hPa (20°C)		
Density and/or relative density	0.69- 0.83 g/cm³ (20°C)		
Relative vapour density	> 1		
particle characteristics			not applicable (liquid).

* **9.2 Other information**

* **Information with regard to physical hazard classes**

* **Explosives**

* **Assessment/classification**
The mixture does not contain any explosive substances.

flammable gases

Assessment/classification
not applicable (liquid).

Aerosols

Assessment/classification
not relevant - no aerosol.
The classification criteria for this hazard class are not met by definition.

Oxidising gas

Assessment/classification
not applicable (liquid).

Gases under pressure

Assessment/classification
not applicable (liquid - no dissolved gas).

flammable liquids

Assessment/classification
Flam. Liq. 3 H226: Flash point ≥ 23 °C and ≤ 60 °C.
Flammable liquid and vapour.

flammable solids

Assessment/classification
not applicable (liquid).

* **Self-reactive substances and mixtures**

* **Assessment/classification**
The mixture does not contain any self-reactive substances.

Pyrophoric liquids

Assessment/classification
The mixture does not contain any pyrophoric substances - not spontaneously flammable (CLP I 2.9.4.1).
CLP I 2.9.4.1: The classification procedure for pyrophoric liquids need not be applied when experience in manufacture or handling shows that the substance or mixture does not ignite spontaneously on coming into contact with air at normal temperatures (i.e. the substance is known to be stable at room temperature for prolonged periods of time (days)).

Pyrophoric solids

Assessment/classification
not applicable (liquid).

self-heating substances and mixtures

Assessment/classification
The mixture does not contain any self-heating substances.

Substances or mixtures which, in contact with water, emit flammable gases

Assessment/classification
not relevant - in contact with water releases no flammable gases (CLP I 2.12.4.1).
CLP I 2.12.4.1: The classification procedure for this class need not be applied if: (a) the chemical structure of the substance or mixture does not contain metals or metalloids; or (b) experience in production or handling shows that the substance or mixture does not react with water, e.g. the substance is manufactured with water or washed with water; or (c) the substance or mixture is known to be soluble in water to form a stable mixture.

Oxidising liquids

Assessment/classification
The mixture does not contain any oxidising substances.

Oxidising solids

Assessment/classification
not applicable (liquid).

Organic peroxides

Assessment/classification
The mixture does not contain any organic peroxides.

Corrosive to metals

Assessment/classification
The mixture does not contain any substances corrosive to metals.
Based on available data, the classification criteria are not met.

Desensitised explosives

Assessment/classification
The mixture does not contain any desensitised explosive substances.

Other safety characteristics

	Value	Method	Source, Remark
Evaporation rate			Mixture of dearomatized hydrocarbons: 0.46-0.56 (ASTM D3539) / 20-23 (DIN 53170) .
Solvent content	90- 100 %		
Explosive properties			Not classified as explosive. Vapours can form an explosive mixture with air.
Oxidising properties			none

* **Other information**
Vapours are heavier than air.

SECTION 10: Stability and reactivity

10.1 Reactivity

No further hazardous reactions known if used as directed.
Vapours can form an explosive mixture with air.

10.2 Chemical stability

Stable at ambient temperature.

10.3 Possibility of hazardous reactions

Reactions with oxidising agents.

10.4 Conditions to avoid

Heat and direct solar radiation.
Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

10.5 Incompatible materials

Oxidising agent

10.6 Hazardous decomposition products

No decomposition if used as directed.

SECTION 11: Toxicological information

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

Acute toxicity

Animal data

	Effective dose	Method,Evaluation	Source, Remark
Acute oral toxicity	> 5000 mg/kg	ATE: Acute Toxicity Estimate	
Acute dermal toxicity	> 5000 mg/kg	ATE: Acute Toxicity Estimate	
Acute inhalation toxicity	Acute inhalation toxicity (vapour) > 50 mg/L	ATE: Acute Toxicity Estimate	

Assessment/classification
Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Animal data

Result / Evaluation	Method	Source, Remark
slightly irritant	Calculation method.	

Serious eye damage/irritation

Animal data

Result / Evaluation	Method	Source, Remark
Irritant.	Calculation method.	

Sensitisation to the respiratory tract

Assessment/classification
Based on available data, the classification criteria are not met.

Skin sensitisation

Animal data

Result / Evaluation	Dose / Concentration	Method	Source, Remark
not sensitising.		Calculation method.	

Germ cell mutagenicity

Assessment/classification
Based on available data, the classification criteria are not met.

Carcinogenicity

Assessment/classification
Based on available data, the classification criteria are not met.

Reproductive toxicity

Assessment/classification
Based on available data, the classification criteria are not met.

Overall Assessment on CMR properties

The mixture is not classified as mutagen / not classified as carcinogen / not classified as reproductive toxicant.

STOT-single exposure

STOT SE 1 and 2

Assessment/classification
Based on available data, the classification criteria are not met.

STOT SE 3

Irritation to respiratory tract

Assessment/classification
Based on available data, the classification criteria are not met.

Narcotic effects

Assessment/classification
Narcotic effect: STOT SE 3 H336: May cause drowsiness or dizziness.

STOT-repeated exposure

Other information
Contains 3-methylbut-3-en-1-ol.

Assessment/classification
The mixture is not classified as specific target organ toxicant (repeated exposure).
Based on available data, the classification criteria are not met.

Aspiration hazard

Experimental data

	Value	Method	Source, Remark
Cinematic viscosity (40°C):	< 20.5 mm²/s		
Hydrocarbon content (%):	90- 100		

Assessment/classification
Aspiration hazard: Asp. Tox. 1 H304: May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Information on other hazards

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties			This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Other information

benzene: < 10 ppm.
Has a degreasing effect on the skin.
The product has not been tested. The information is derived from products of similar composition.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	LC50: 10.7- 32 mg/L	calculated	
	mixture of dearomatized hydrocarbons (<0,1% aromatics) [Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics] LL50 >10- 30 mg/L Species Oncorhynchus mykiss (Rainbow trout) Test duration 96 h	OECD 203	
Chronic (long-term) fish toxicity	mixture of dearomatized hydrocarbons (<0,1% aromatics) [Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics] NOELR 0.182 mg/L Test duration 28 d	QSAR	
Acute (short-term) toxicity to crustacea	EC50 23- 48 mg/L	calculated	
	mixture of dearomatized hydrocarbons (<0,1% aromatics) [Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics] EL50 >22- 46 mg/L Species Daphnia magna (Big water flea) Test duration 48 h	OECD 202	

	Effective dose	Method,Evaluation	Source, Remark
Chronic (long-term) toxicity to aquatic invertebrate	mixture of dearomatized hydrocarbons (<0,1% aromatics) [Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics] NOELR 0.317 mg/L Test duration 21 d	QSAR	
Acute (short-term) toxicity to algae and cyanobacteria	EC50 602 mg/L	calculated	
	mixture of dearomatized hydrocarbons (<0,1% aromatics) [Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics] EL50 > 1000 mg/L Species Pseudokirchneriella subcapitata Test duration 72 h	OECD 201	
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	mixture of dearomatized hydrocarbons (<0,1% aromatics) [Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics] NOELR: < 1 mg/L Species Pseudokirchneriella subcapitata Test duration 72 h	OECD 201	
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

Assessment/classification
Harmful to aquatic life.
Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation			Moderately/partially biodegradable.
Biodegradation	Degradation rate 96 % Test duration 28 d	OECD 301E/ EEC 92/69/V, C.4-B	CAS No107-98-2 1-methoxy-2-propanol
Biodegradation	Degradation rate 89 % Test duration 28 d	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	mixture of dearomatized hydrocarbons (<0,1% aromatics) [Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics]
Biodegradation	Degradation rate 70- 80 % Test duration 28 d	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	CAS No763-32-6 3-methylbut-3-en-1-ol
Biodegradation	Degradation rate 31 % Test duration 28 d	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	CAS No8042-47-5 White mineral oil (paraffin oil)

12.3 Bioaccumulative potential

Assessment/classification
Mixture of dearomatized hydrocarbons: Because of the n-octanol/water partition coefficient (log Pow) accumulation in organisms is possible.
3-methylbut-3-en-1-ol: Significant accumulation in organisms is not expected (log Pow: 0.89).
White mineral oil (paraffin oil): not available.

12.4 Mobility in soil

Assessment/classification
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics: The product may evaporate relatively quickly. The proportion of the distribution on the sediment layer and waste water solids is probably < 10%.
3-methylbut-3-en-1-ol: Adsorption on soil is not expected.
White mineral oil (paraffin oil): not available.

12.5 Results of PBT and vPvB assessment

The product does not contain any PBT-/vPvB-substances according to the recipe.

12.6 Endocrine disrupting properties

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties			This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

12.7 Other adverse effects

	Value	Method	Source, Remark
Ozone depletion potential (ODP):			Based on available data, the classification criteria are not met.

Additional ecotoxicological information

	Value	Method	Source, Remark
AOX			The product does not contain any organically bound halogens according to the recipe.

Additional information
Acute aquatic environmental hazards: Aquatic Acute 3 H402: Harmful to aquatic life.
Chronic aquatic environmental hazards: Aquatic Chronic 3 H412: Harmful to aquatic life with long lasting effects.
Do not allow uncontrolled discharge of product into the environment.
Product is not allowed to be discharged into the ground water or aquatic environment.
No further relevant informations available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Waste code product	Waste name
140603 *	other solvents and solvent mixtures

Waste code packaging	Waste name
150110 *	packaging containing residues of or contaminated by hazardous substances

Appropriate disposal / Product
Do not dispose with household waste. Do not discharge into the drains.
Dispose of waste according to applicable legislation.

Appropriate disposal / Package
Non-contaminated packages may be recycled.
Handle contaminated packages in the same way as the substance itself.

Remark
Send to a hazardous waste incinerator facility under observation of official regulations.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	UN 3295	UN 3295	UN 3295
14.2 UN proper shipping name	HYDROCARBONS, LIQUID, N.O.S.	HYDROCARBONS, LIQUID, N.O.S.	Hydrocarbons, liquid, n.o.s.
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	III	III	III
14.5 Environmental hazards	No	No	No

14.6 Special precautions for user

none

14.7 Maritime transport in bulk according to IMO instruments

not relevant

Land transport (ADR/RID)

UN number or ID number	UN 3295
UN proper shipping name	HYDROCARBONS, LIQUID, N.O.S.
Transport hazard class(es)	3
Hazard label(s)	3
Classification code	F1
Packing group	III
Environmental hazards	No
Limited quantity (LQ)	5 L
Special provisions	-
Tunnel restriction code	D/E

Sea transport (IMDG)

UN number or ID number	UN 3295
UN proper shipping name	HYDROCARBONS, LIQUID, N.O.S.
Transport hazard class(es)	3
Packing group	III
Environmental hazards	No
Limited quantity (LQ)	5 L
Marine pollutant	No
EmS	F-E, S-D

Air transport (ICAO-TI / IATA-DGR)

UN number or ID number	UN 3295
UN proper shipping name	Hydrocarbons, liquid, n.o.s.
Transport hazard class(es)	3
Packing group	III

Environmental hazards No

SECTION 15: Regulatory information

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

EU legislation

Authorisations
not relevant

Restrictions on use
Regulation (EC) No 1907/2006 (REACH), Annex XVII No 3 + 40 - not relevant if used as directed.
Regulation (EC) No 1907/2006 (REACH), Annex XVII No 75 - not relevant if used as directed.

Restrictions of occupation
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Other regulations (EU)

To follow:
Directive 2012/18/EU, Annex I: P5c.

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC
VOC content, ready-to-use condition 96.4 %
VOC content, delivery state 96.4 %

15.2 Chemical Safety Assessment

National regulations

For this mixture a chemical safety assessment were not carried out.

* SECTION 16: Other information

* **Abbreviations and acronyms**
For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
ASTM: American Society for Testing and Materials
ATE: Acute Toxicity Estimate
AVV: Waste Shipment Ordinance (DE)
DGR: Dangerous Goods Regulations (IATA)
DIN: German Institute for Standardization / German Industrial Standard
DNEL: derived no-effect level
EL50: Effective Loading 50 %
EmS: emergency procedures
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods
IMO: International Maritime Organization
JArbSchG: Youth Labor Protection Act (DE)
LL50: Lethal Loading 50 %
NOELR: No Observed Effect Level
OECD: Organisation for Economic Cooperation and Development
PBT: persistent and bioaccumulative and toxic
QSAR: Quantitative Structure-Activity Relationship
RID: Dangerous goods regulations for transport by rail
TI: Technical Instruction
TRGS: Technical Rules for Hazardous Substances
VOC: Volatile organic compounds
vPvB: very persistent, very bioaccumulative
Flam. Liq. 3: Flammable Liquids, Category 3
Eye Dam. 1: Serious eye damage, Category 1
Eye Irrit. 2: Eye irritation, Category 2
STOT SE 3, H336: Specific target organ toxicity (single exposure), Category 3 (narcotic effects)
STOT RE 2: Specific target organ toxicity (repeated exposure), Category 2
Asp. Tox. 1: Aspiration toxicity, Category 1
Aquatic Chronic 3: Long-term (chronic) aquatic hazard, Category 3

Key literature references and sources for data
Own measurements.
European Chemicals Agency, http://echa.europa.eu/.
Informations from our suppliers.

Additional information
National and local regulations concerning chemicals shall be observed.
These data are given according to our actual knowledge about this product.This data sheet does not correspond to an assurance by virtue of a contract for properties of the product.

Relevant H- and EUH-phrases (Number and full text)

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

Indication of changes
* Data changed compared with the previous version