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

1.1 Product identifier

Trade name: AUTOL HEL PREMIUMWIRKSTOFF

UFI: SSF8-M9V6-H008-Y0QR

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

General use: combustion stabiliser for heating oil.

1.3 Details of the supplier of the safety data sheet

Company name: Enilive Schmiertechnik GmbH
Street/POB-No.: Paradiesstraße 14
Postal Code, city: 97080 Würzburg
Germany
E-mail: info.wuerzburg@enilive.com
Telephone: +49 (0)931-90098-0
Telefax: +49 (0)931-98442

Department responsible for information:
Application Engineering & Product Management (AEPM)
Telephone: +49 (0)931-90098-0
E-mail: technik.wuerzburg@enilive.com

1.4 Emergency telephone number

GIZ-Nord, Göttingen
Telephone: +49 (0)551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

STOT SE 3; H336	May cause drowsiness or dizziness.
Asp. Tox. 1; H304	May be fatal if swallowed and enters airways.
Aquatic Chronic 2; H411	Toxic to aquatic life with long lasting effects.
(EUH066)	Repeated exposure may cause skin dryness or cracking.

2.2 Label elements

Labelling (CLP)

Signal word: **Danger**

Hazard statements:	H304	May be fatal if swallowed and enters airways.
	H336	May cause drowsiness or dizziness.
	H411	Toxic to aquatic life with long lasting effects.
	EUH066	Repeated exposure may cause skin dryness or cracking.
Precautionary statements:		
	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	P271	Use only outdoors or in a well-ventilated area.
	P273	Avoid release to the environment.
	P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
	P331	Do NOT induce vomiting.
	P391	Collect spillage.
	P405	Store locked up.
	P501	Dispose of contents/container to hazardous or special waste collection point.

Special labelling

Text for labelling: Contains Hydrocarbons, C10, aromatics, <1% naphthalene.

2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

No data available

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119463583-34-xxxx list no. 918-811-1 CAS 64742-94-5	Hydrocarbons, C10, aromatics, <1% naphthalene STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411. (EUH066).	75 - 90 %
EC No. 204-884-0 CAS 128-39-2	2,6-di-tert-butylphenol Skin Irrit. 2; H315. Aquatic Acute 1; H400. Aquatic Chronic 1; H410.	< 5 %
EC No. 202-436-9 CAS 95-63-6	1,2,4-Trimethylbenzene Flam. Liq. 3; H226. Acute Tox. 4; H332. Skin Irrit. 2; H315. Eye Irrit. 2; H319. STOT SE 3; H335. Aquatic Chronic 2; H411.	< 5 %
EC No. 265-198-5 CAS 64742-94-5	Hydrocarbons, C10, aromatics, >1% naphthalene STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411. (EUH066).	< 3 %
REACH 01-2119533169-37-xxxx EC No. 202-708-7 CAS 98-86-2	Acetophenon 99 % Acute Tox. 4; H302. Eye Irrit. 2; H319.	< 2,5 %
EC No. 202-049-5 CAS 91-20-3	Naphthalene Acute Tox. 4; H302. Carc. 2; H351. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. M-factors: Aquatic Acute 1: M = 1. Aquatic Chronic 1: M = 1.	< 1 %

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

Additional information: Total Naphthalene: <1%
Contains Oxydipropanol.
The maximum workplace exposure limits are, where necessary, listed in section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: If medical advice is needed, have product container or label at hand.
Take off contaminated clothing and wash it before reuse.

In case of inhalation: Move victim to fresh air; if necessary, provide artificial respiration or oxygen. If breathing is irregular or stopped, administer artificial respiration. Do not effect a mouth-to-mouth resuscitation.
If unconscious place in recovery position and seek medical advice. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Information about

Following skin contact: Remove residues with soap and water. Change contaminated clothing. In case of skin reactions, consult a physician.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

After swallowing: Rinse mouth with water. Do not induce vomiting. Aspiration hazard: in case of swallowing or vomiting danger of penetration into the lungs.
If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs.
Never give anything by mouth to an unconscious person. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Depression of central nervous system. Repeated exposure may cause skin dryness or cracking.

Nausea, vomiting, headache, dizziness, unconsciousness.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Medical surveillance necessary for at least 48 hours. Symptoms may occur with delay.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Extinguishing is to be in accordance with the surrounding fire.

Extinguishing media which must not be used for safety reasons:

Full water jet

5.2 Special hazards arising from the substance or mixture

Combustible. May form dangerous gases and vapours in case of fire.
Furthermore, there may develop: Nitrogen oxides (NOx), carbon monoxide and carbon dioxide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and fire fighter's clothing conforming to European standard EN 469.

Additional information: Do not allow fire water to penetrate into surface or ground water.
Fire residuals and contaminated extinguishing water must be disposed of in accordance with the regulations of the local authorities.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Provide good ventilation and/or an exhaust system in the work area. Eliminate all ignition sources if safe to do so. Avoid breathing mist/vapours/spray.
Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse. Wear appropriate protective equipment.
Keep unprotected people away.

6.2 Environmental precautions

Do not allow to penetrate into soil, waterbodies or drains. If necessary, notify appropriate authorities.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents) and place in closed containers for disposal.
Never return spills in original containers for re-use.

Additional information: Special danger of slipping by leaking/spilling product.

6.4 Reference to other sections

Refer additionally to section 8 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advices on safe handling: Provide good ventilation and/or an exhaust system in the work area. Avoid breathing mist/vapours/spray.
Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse. Wear appropriate protective equipment.
When using do not eat, drink or smoke. Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:
Keep container tightly closed and in a well-ventilated place.
Keep container dry. Keep only in the original container.
Protect from heat and direct sunlight.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

Storage class: 10 = Combustible liquids that cannot be assigned to any of the above storage classes

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
64742-94-5	Hydrocarbons, C10, aromatics, <1% naphthalene	Germany: TRGS 900 Kurzzeit	100 mg/m³ (hydrocarbons, aromatic, C9-C14)
		Germany: TRGS 900 Langzeit	50 mg/m³ (hydrocarbons, aromatic, C9-C14)
95-63-6	1,2,4-Trimethylbenzene	Germany: DFG Kurzzeit	50 mg/m³; 10 ppm
		Germany: DFG Langzeit	25 mg/m³; 5 ppm
		Germany: TRGS 900 Kurzzeit	200 mg/m³; 40 ppm
		Germany: TRGS 900 Langzeit	100 mg/m³; 20 ppm
25265-71-8	Oxydipropanol	Germany: TRGS 900 Kurzzeit	200 mg/m³ (Aerosol and vapour, inhalable fraction)
		Germany: TRGS 900 Langzeit	100 mg/m³ (Aerosol and vapour, inhalable fraction)
64742-94-5	Hydrocarbons, C10, aromatics, >1% naphthalene	Germany: TRGS 900 Kurzzeit	100 mg/m³ (hydrocarbons, aromatic, C9-C14)
		Germany: TRGS 900 Langzeit	50 mg/m³ (hydrocarbons, aromatic, C9-C14)
91-20-3	Naphthalene	Europe: IOELV: TWA	50 mg/m³; 10 ppm
		Germany: TRGS 900 Kurzzeit	8 mg/m³; 1,6 ppm (Aerosol and vapour, may be absorbed through the skin)
		Germany: TRGS 900 Langzeit	2 mg/m³; 0,4 ppm (Aerosol and vapour, may be absorbed through the skin)

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
95-63-6	1,2,4-Trimethylbenzene	Germany: TRGS 903, urine	400 mg/g creatinine	dimethylbenzoic acids	at long term exposure: at the end of the shift after several previous shifts

DNEL/DMEL:

Information about Hydrocarbons, C10, aromatics, <1% naphthalene
DNEL workers, long-term, dermal, systemic: 12,5 mg/kg bw/d
DNEL workers, long-term, inhalative, systemic: 151 mg/m³
DNEL consumers, long-term, dermal, systemic: 7,5 mg/kg bw/d
DNEL consumers, long-term, inhalative, systemic: 32 mg/m³
DNEL consumers, long-term, oral, systemic: 7,5 mg/kg bw/d

Information about 2,6-di-tert-butylphenol:
DMEL workers, long-term, dermal: 2,77 mg/kg bw/d
DMEL workers, long-term, inhalative: 19,6 mg m³

Information about 1,2,4-Trimethylbenzene:
DNEL workers, short-term, inhalative, systemic: 100 mg/m³
DNEL workers, short-term, inhalative, local: 100 mg/m³
DNEL workers, long-term, dermal, systemic: 16.171 mg/kg bw/d
DNEL workers, long-term, inhalative, local: 100 mg/m³
DNEL consumers, short-term, inhalative, systemic: 29,4 mg/m³
DNEL consumers, short-term, inhalative, local: 29,4 mg/m³
DNEL consumers, long-term, oral, systemic: 15 mg/kg bw/d
DNEL consumers, long-term, inhalative, local: 29,4 mg/m³

Information about Acetophenone:
DNEL workers, long-term, dermal, systemic: 9 mg/kg bw/d
DNEL workers, long-term, inhalative, systemic: 35 mg/m³

Information about Hydrocarbons, C10, aromatics, >1% naphthalene:
DNEL workers, long-term, dermal, systemic: 12,5 mg/kg bw/d
DNEL workers, long-term, inhalative, systemic: 151 mg/m³
DNEL consumers, long-term, dermal, systemic: 7,5 mg/kg bw/d
DNEL consumers, long-term, inhalative, systemic: 32 mg/m³
DNEL consumers, long-term, oral, systemic: 7,5 mg/kg bw/d

Information about Naphthalene:
DNEL workers, long-term, dermal, systemic: 3,57 mg/kg bw/d
DNEL workers, long-term, inhalative, systemic: 25 mg/m³
DNEL workers, long-term, inhalative, local: 25 mg/m³

PNEC:

Information about 2,6-di-tert-butylphenol:
PNEC water (freshwater): 0,45 µg/L
PNEC water (marine water): 0,045 µg/L
PNEC sediment (freshwater): 0,196 mg/kg dw
PNEC sediment (marine water): 0,0196 mg/kg dw
PNEC soil: 38,9 mg/kg dw
PNEC Secondary Poisoning: 6,67 mg/kg

Information about 1,2,4-Trimethylbenzene:
PNEC water (freshwater): 0,12 mg/L
PNEC water (marine water): 0,12 mg/L
PNEC sediment (freshwater): 13,56 mg/kg dw
PNEC sediment (marine water): 13,56 mg/kg dw
PNEC soil: 2,34 mg/kg dw

Information about Acetophenone:
PNEC water (freshwater): 0,0864 mg/L
PNEC water (marine water): 0,00864 mg/L
PNEC sediment (freshwater): 0,82 mg/kg dw
PNEC sediment (marine water): 0,082 mg/kg dw
PNEC soil: 0,175 mg/kg dw

Information about Naphthalene:
PNEC water (freshwater): 2,4 µg/L
PNEC water (marine water): 0,24 µg/L
PNEC sediment (freshwater): 67,2 µg/kg dw
PNEC sediment (marine water): 67,2 µg/kg dw
PNEC soil: 53,3 µg/kg dw

8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

Personal protection equipment

Occupational exposure controls

Respiratory protection: Respiratory protection must be worn whenever the WEL levels have been exceeded. The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Hand protection: Protective gloves according to DIN EN ISO 374-1.
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to DIN EN ISO 16321-1.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:
Avoid breathing mist/vapours/spray.
Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse.
When using do not eat, drink or smoke. Wash hands before breaks and after work.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.
In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state at 20 °C and 101.3 kPa	liquid
Colour:	Light yellow - amber
Odour:	Aromatic
Melting point/freezing point:	No data available
Boiling point or initial boiling point and boiling range:	168,01 °C (1,2,4-Trimethylbenzene)
Flammability:	No data available
Lower and upper explosion limit:	LEL (Lower Explosion Limit): 2,90 Vol-% (Oxydipropanol) UEL (Upper Explosive Limit): 12,60 Vol-% (Oxydipropanol)
Flash point:	> 60 °C (DIN EN ISO 2719)
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
pH:	Not applicable
Kinematic viscosity:	at 40 °C: 1,3 mm²/s (DIN EN ISO 3104)
Solubility:	soluble in: methanol, diethyl ether, acetone
Water solubility:	Insoluble
Partition coefficient n-octanol/water (log value):	No data available
Vapour pressure:	at 20 °C: 0,1 kPa (Solvent naphtha (petroleum), heavy aromatic)
Density:	at 15 °C: 0,901 g/mL
Relative vapour density:	4,6 - 5,5 (Solvent naphtha (petroleum), heavy aromatic)
Particle characteristics:	Not applicable

9.2 Other information

Explosive properties:	No data available
Oxidizing characteristics:	No data available
Auto-ignition temperature:	> 310 °C (Oxydipropanol)

SECTION 10: Stability and reactivity

10.1 Reactivity

Refer to subsection "Possibility of hazardous reactions".

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

No dangerous reactions with proper and specified storage and handling

Thermal decomposition: No data available

SECTION 11: Toxicological information

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

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Based on available data, the classification criteria are not met.
ATEmix (calculated): ATE > 5.000 mg/kg

Acute toxicity (dermal): Based on available data, the classification criteria are not met.
ATEmix (calculated): ATE > 2.000 mg/kg

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.
ATEmix (calculated): ATE > 100 mg/L

Skin corrosion/irritation: Lack of data.

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): STOT SE 3; H336 = May cause drowsiness or dizziness.

Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Asp. Tox. 1; H304 = May be fatal if swallowed and enters airways.

11.2 Information on other hazards

Endocrine disrupting properties:

No data available

Other information:

Information about Acetophenone:
LD50, Rat, oral: 2.081 mg/kg
LD50, Rat, dermal: 3.300 mg/kg (OECD 402)

Information about Naphthalene:
LD50, Rabbit, dermal: > 2.000 mg/kg
LC50, Rat, inhalative: > 340 mg/m³/1h
LD50, Rat, oral: 490 mg/kg
LD50, Rat, dermal: > 2.500 mg/kg

Symptoms

In case of inhalation:
May cause nausea, headache, fatigue, dizziness and unconsciousness.
In case of ingestion: May cause nausea.
After contact with skin: May cause Desiccation, irritation.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

Toxic to aquatic life with long lasting effects.

Information about Hydrocarbons, C10, aromatics, <1% naphthalene
Fish toxicity:
LL50, Oncorhynchus mykiss: 2_5 mg/L/96h (OECD 203)
Daphnia toxicity:
LL50, Daphnia magna (Big water flea): 3 - 10 mg/L (OECD 202)
Algae toxicity:
EL50, Pseudokirchneriella subcapitata (green algae): 1 - 3 mg/L/72h (OECD 201)

Information about 2,6-di-tert-butylphenol:
Daphnia toxicity:
EC50, Daphnia magna (Big water flea): 0,45 mg/L/48h (EPA)
EC50, Daphnia magna (Big water flea): < 10 mg/L/48h
Fish toxicity:
LC50: 1,4 mg/L/96h (OECD 204)
LC50: 1 mg/L/14d (OECD 204)

Information about 1,2,4-Trimethylbenzene:
Fish toxicity:
LC50, Pimephales promelas (fathead minnow): 7,72 mg/L/96h

Information about Hydrocarbons, C10, aromatics, >1% naphthalene:
Fish toxicity:
LL50, Oncorhynchus mykiss: 2 - 5 mg/L/96h (OECD 203)
Daphnia toxicity:
EL50, Daphnia magna (Big water flea): 3 - 10 mg/L/48h (OECD 202)
Algae toxicity:
EL50, Pseudokirchneriella subcapitata (green algae): 1 - 3 mg/L/72h (OECD 201)

Information about Naphthalene:
Daphnia toxicity:
EC50, Daphnia magna (Big water flea): 1,96 mg/L/48h
Fish toxicity:
LC50, Oncorhynchus mykiss: 1,6 mg/L/96h

Water Hazard Class: 2 = obviously hazardous to water (Self-classification (mixture).)

12.2 Persistence and degradability

Further details:

Information about 2,6-di-tert-butylphenol:
Biodegradability: 12-24%/28d
Not readily biodegradable (according to OECD criteria).

Information about Hydrocarbons, C10, aromatics, <1% naphthalene: Inherently biodegradable.

Information about Hydrocarbons, C10, aromatics, >1% naphthalene: Inherently biodegradable.

12.3 Bioaccumulative potential

Information about Hydrocarbons, C10, aromatics, <1% naphthalene:
log P(o/w): 2,8 - 6,5
BCF: < 100
Bioaccumulative potential: low

Information about 2,6-di-tert-butylphenol
log P(o/w): 5,4
BCF: 660
Bioaccumulative potential: high

Information about 1,2,4-Trimethylbenzene
log P(o/w): 4,09
BCF: 275
Bioaccumulative potential: low

Information about Hydrocarbons, C10, aromatics, >1% naphthalene:
BCF: <100
Bioaccumulative potential: low

Information about Naphthalene:
log P(o/w): 3,3
BCF: > 100
Bioaccumulative potential: low

Partition coefficient: n-octanol/water:
No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

General information: Do not allow to enter into ground-water, surface water or drains.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Waste key number: 07 06 08* = Other still bottoms and reaction residues
* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation. Do not allow to enter into ground-water, surface water or drains.

Package

Recommendation: Dispose of waste according to applicable legislation. Non-contaminated packages may be recycled.

Section 14. Transport information

14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR:
UN 3082

14.2 UN proper shipping name

ADR/RID, ADN, IMDG, IATA-DGR:
UN 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hydrocarbons, C10, aromatics, <1% naphthalene 2,6-di-tert-butylphenol)

14.3 Transport hazard class(es)

ADR/RID, ADN:	Class 9, Code: M6
IMDG:	Class 9, Subrisk -
IATA-DGR:	Class 9

14.4 Packing group

ADR/RID, ADN, IMDG, IATA-DGR:
III

14.5 Environmental hazards

Dangerous for the environment:
Substance/mixture is environmentally hazardous according to the criteria of the UN model regulations.

Marine pollutant - IMDG:	yes
Marine pollutant - ADN:	yes

14.6 Special precautions for user

Land transport (ADR/RID)

Warning board:	ADR/RID: Hazard identification number 90, UN number UN 3082
Hazard label:	9
Special Provisions:	274 335 375 601 650
Limited quantities:	5 L
EQ:	E1
Package - Instructions:	P001 IBC03 LP01 R001
Package - Special Provisions:	PP1
Special provisions for packing together:	MP19
Portable tanks - Instructions:	T4
Portable tanks - Special Provisions:	TP1 TP29
Tank coding:	LGBV
Tunnel restriction code:	(-)

Inland waterway craft (ADN)

Hazard label:	9
Special Provisions:	274 335 375 601 650
Limited quantities:	5 L
EQ:	E1
Transport permitted:	T
Equipment necessary:	PP

Sea transport (IMDG)

EmS:	F-A, S-F
Special Provisions:	274 335 375 969
Limited quantities:	5 L
Excepted quantities:	E1
Package - Instructions:	P001, LP01
Package - Provisions:	PP1
IBC - Instructions:	IBC03
IBC - Provisions:	-
Tank instructions - IMO:	-
Tank instructions - UN:	T4
Tank instructions - Provisions:	TP1, TP29
Stowage and handling:	Category A.
Properties and observations:	-
Segregation group:	none

Air transport (IATA)

Hazard label:	Miscellaneous & Environmentally hazardous
Excepted Quantity Code:	E1
Passenger and Cargo Aircraft: Ltd.Qty.:	Pack.Instr. Y964 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft:	Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L
Cargo Aircraft only:	Pack.Instr. 964 - Max. Net Qty/Pkg. 450 L
Special Provisions:	A97 A158 A197 A215
Emergency Response Guide-Code (ERG):	9L

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

National regulations - Germany

Storage class: 10 = Combustible liquids that cannot be assigned to any of the above storage classes

Water Hazard Class: 2 = obviously hazardous to water (Self-classification (mixture).)

Major Accident Ordinance (12. BImSchV):

Environmental hazards: Number 1.3.2 = Code E2,
Quantity threshold 200 000 kg / 500 000 kg

Technical guidance air: 5.2.5

Information on working limitations:

Observe employment restrictions for young people.
Observe employment restrictions for expectant or nursing mothers.

Further regulations, limitations and legal requirements:

The product is not subject to the Chemicals Prohibition Ordinance (ChemVerbotsV).

National regulations - EC member states

Labelling of packaging with <= 125mL content

Signal word: **Danger**

Hazard statements:

H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P271	Use only outdoors or in a well-ventilated area.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P331	Do NOT induce vomiting.
P405	Store locked up.
P501	Dispose of contents/container to hazardous or special waste collection point.

Further regulations, limitations and legal requirements:

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: refer to Germany, 12. BImSchV

Use restriction according to REACH annex XVII, no.: 3, 50a, 75
Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: E2

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

Classification procedure: Physical hazards: on basis of test data
Health hazards, environmental hazards: calculation method

Wording of the H-phrases under paragraph 2 and 3:

H226 = Flammable liquid and vapour.
H302 = Harmful if swallowed.
H304 = May be fatal if swallowed and enters airways.
H315 = Causes skin irritation.
H319 = Causes serious eye irritation.
H332 = Harmful if inhaled.
H335 = May cause respiratory irritation.
H336 = May cause drowsiness or dizziness.
H351 = Suspected of causing cancer.
H400 = Very toxic to aquatic life.
H410 = Very toxic to aquatic life with long lasting effects.
H411 = Toxic to aquatic life with long lasting effects.
EUH066 = Repeated exposure may cause skin dryness or cracking.

Reason of change: Changes in section 8: Occupational exposure limit values
Date of first version: 28.12.2021

Department issuing data sheet:

see section 1: Department responsible for information

Abbreviations and acronyms:

Acute Tox.: Acute toxicity
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
Aquatic Acute: Hazardous to the aquatic environment - acute
Aquatic Chronic: Hazardous to the aquatic environment - chronic
AS/NZS: Australian Standards/New Zealand Standards
Asp. Tox.: Aspiration toxicity
ATE: Acute toxicity estimate
ATEmix: Acute Toxicity Estimate of mixture
BCF: Bioconcentration Factor
Carc.: Carcinogenicity
CAS: Chemical Abstracts Service
CFR: Code of Federal Regulations
CLP: Classification, Labelling and Packaging
DMEL: Derived minimal effect level
DNEL: Derived no-effect level
EC: European Community
EC50: Effective Concentration 50%
EL50: Effective loading rate 50%
EmS: Emergency Response Procedures for Ships Carrying Dangerous Goods
EN: European Standard
EQ: Excepted quantities
EU: European Union
Eye Irrit.: Eye irritation
Flam. Liq.: Flammable liquid
IATA: International Air Transport Association
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations
IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
IMDG Code: International Maritime Dangerous Goods Code
IMO: International Maritime Organization
LC50: Median lethal concentration
LD50: Lethal dose 50%
LEL: Lower Explosion Limit
log P(o/w): Partition coefficient: octanol/water
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
M-factor: Multiplication factor
OECD: Organisation for Economic Co-operation and Development
OEL: Occupational Exposure Limit Value
OSHA: Occupational Safety and Health Administration
PBT: Persistent, bioaccumulative and toxic
PNEC: Predicted no-effect concentration
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail
Skin Irrit.: Skin irritation
STOT SE: Specific target organ toxicity - single exposure
TLV: Threshold Limit Value
TRGS: Technical Rules for Hazardous Substances
UN: United Nations
vPvB: Very persistent and very bioaccumulative
WEL: Workplace Exposure Limit

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

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