

## Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) and Regulation (EU) 2020/878

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

### 1.1 Product identifier

Trade name: AUTOL SONDERKRAFTSTOFF 2T

UFI: JHC0-009S-Q006-GC7J

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

General use: Fuel

### 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

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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)

Flam. Liq. 1; H224 Extremely flammable liquid and vapour.

Skin Irrit. 2; H315 Causes skin irritation.

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.

### 2.2 Label elements

#### Labelling (CLP)



Signal word:

**Danger**



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Material number 11580

Revision date: 21.8.2024

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Hazard statements:	H224	Extremely flammable liquid and vapour.
	H304	May be fatal if swallowed and enters airways.
	H315	Causes skin irritation.
	H336	May cause drowsiness or dizziness.
	H411	Toxic to aquatic life with long lasting effects.
Precautionary statements:	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children.
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P233	Keep container tightly closed.
	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.
	P403+P235	Store in a well-ventilated place. Keep cool.
	P405	Store locked up.
	P501	Dispose of contents/container to hazardous or special waste collection point.

### Special labelling

Text for labelling:

Contains:

Naphtha (petroleum), full-range alkylate,

Naphtha (petroleum), isomerization,

2-Methylbutane.

### 2.3 Other hazards

Potentially explosive mixtures may form if adequate ventilation is not provided.

Inhaling can lead to irritations of the respiratory tract and mucous membrane.

Higher doses may lead to a narcotic effect.

Special danger of slipping by leaking/spilling product.

Endocrine disrupting properties, Results of PBT and vPvB assessment:

This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% (w/w) or higher.

The product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

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### 3.2 Mixtures

Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119485026-38-xxxx EC No. 265-066-7 CAS 64741-64-6	Naphtha (petroleum), full-range alkylate Flam. Liq. 1; H224. Skin Irrit. 2; H315. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411.	< 80 %
REACH 01-2119480399-24-xxxx EC No. 265-073-5 CAS 64741-70-4	Naphtha (petroleum), isomerization Flam. Liq. 1; H224. Skin Irrit. 2; H315. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411.	≤ 25 %
REACH 01-2119475602-38-xxxx EC No. 201-142-8 CAS 78-78-4	2-Methylbutane Flam. Liq. 1; H224. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411. (EUH066).	< 15 %

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

Additional information: Information about Naphtha (petroleum), full-range alkylate and Naphtha (petroleum), isomerization:  
Contents of benzene: < 0,1 %.

## 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. First aider: Pay attention to self-protection! Take off contaminated clothing and wash it before reuse.
In case of inhalation:	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if problems persist.
Following skin contact:	Immediately clean with water and soap followed by thorough rinsing. 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 immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting. Caution if victim vomits: Risk of aspiration! Keep airway open. Immediately get 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. Causes skin irritation. Inhaling can lead to irritations of the respiratory tract and mucous membrane. Higher doses may lead to a narcotic effect. Symptoms can occur only after several hours.

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

Treat symptomatically.  
Aspiration hazard: in case of swallowing or vomiting danger of penetration into the lungs.



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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, foam, extinguishing powder, sand, earth, carbon dioxide.

Extinguishing media which must not be used for safety reasons:

Full water jet.

### 5.2 Special hazards arising from the substance or mixture

Extremely flammable liquid and vapour.

Air combined with vapours may form potentially explosive mixtures that are heavier than air. Vapours may proceed on the ground over great distances and cause fire and backflashes.

May form dangerous gases and vapours in case of fire.

Furthermore, there may develop: Organic compounds, nitrogen oxides (NO<sub>x</sub>), carbon monoxide and carbon dioxide.

### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Heating will lead to pressure increase: Danger of bursting and explosion. Keep containers cool with water spray.

In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

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

Avoid breathing mist/vapours/spray. Avoid contact with the substance.

In case of leakage, eliminate all ignition sources. If possible, eliminate leakage. Provide adequate ventilation.

Wear appropriate protective equipment. Keep unprotected people away.

Cordon off downwind area at risk and warn inhabitants. Take off contaminated clothing and wash it before reuse.

### 6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains. Danger of explosion!

In case of release, notify competent authorities.

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

Beware of reignition. Thoroughly clean surrounding area.

In case of greater quantities: Collect mechanically (use only explosion-proof equipment when pumping out).



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Additional information: Use explosion-proof equipment and non-sparking tools/utensils.  
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 adequate ventilation, and local exhaust as needed. Avoid breathing mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear appropriate protective equipment.  
Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.  
Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.  
Work place should be equipped with a shower and an eye rinsing apparatus.

Precautions against fire and explosion:

Keep away from sources of ignition - No smoking. Take action to prevent static discharges.  
Use only explosion-protected equipment/instruments. Do not weld.  
In partially filled containers explosive mixtures may form.

### 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.  
Store containers in upright position.

Hints on joint storage:

Do not store together with: Strong oxidizing agents.  
Keep away from food, drink and animal feedingstuffs.

Storage class:

3 = Flammable liquids

### 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
78-78-4	2-Methylbutane	Europe: IOELV: TWA	3.000 mg/m <sup>3</sup> ; 1.000 ppm
		Germany: TRGS 900 Kurzzeit	6.000 mg/m <sup>3</sup> ; 2.000 ppm
		Germany: TRGS 900 Langzeit	3.000 mg/m <sup>3</sup> ; 1.000 ppm



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DNEL/DMEL: Information about Naphtha (petroleum), full-range alkylate (CAS 64741-64-6):  
DNEL, workers, inhalative, systemic, short-term: 1286,4 mg/m<sup>3</sup>  
DNEL, workers, inhalative, local, long-term: 837,5 mg/m<sup>3</sup>  
DNEL, workers, inhalative, local, short-term: 1066,67 mg/m<sup>3</sup>  
DNEL, consumers, inhalative, systemic, short-term: 1.152 mg/m<sup>3</sup>  
DNEL, consumers, inhalative, local, long-term: 178,57 mg/m<sup>3</sup>  
DNEL, consumers, inhalative, local, short-term: 640 mg/m<sup>3</sup>  
Information about Naphtha (petroleum), isomerization (CAS 64741-70-4):  
DNEL, workers, inhalative, systemic, short-term: 1286,4 mg/m<sup>3</sup>  
DNEL, workers, inhalative, local, long-term: 837,5 mg/m<sup>3</sup>  
DNEL, workers, inhalative, local, short-term: 1066,67 mg/m<sup>3</sup>  
DNEL, consumers, inhalative, systemic, short-term: 1.152 mg/m<sup>3</sup>  
DNEL, consumers, inhalative, local, long-term: 178,57 mg/m<sup>3</sup>  
DNEL, consumers, inhalative, local, short-term: 640 mg/m<sup>3</sup>

## 8.2 Exposure controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Explosion protection required.

## Personal protection equipment

### Occupational exposure controls

Respiratory protection: In case of inadequate ventilation wear respiratory protection. Respiratory protection must be worn whenever the WEL levels have been exceeded.  
Recommendation: Use filter type A (= against vapours of organic substances) according to BS EN 14387.  
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.  
Glove material: Nitrile rubber  
By short-term hand contact:  
Breakthrough time: > 30 min  
By long-term hand contact:  
Breakthrough time: > 480 min  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed goggles according to DIN EN ISO 16321-1:2022

Body protection: Flame retardant, antistatic and chemical resistant protective clothing.

General protection and hygiene measures:  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Avoid breathing mist/vapours/spray. Do not get in eyes, on skin, or on clothing.  
Contaminated work clothing should not be allowed out of the workplace.  
When using do not eat or drink. Wash hands thoroughly after handling.  
Work place should be equipped with a shower and an eye rinsing apparatus.

### Environmental exposure controls

Refer to "6.2 Environmental precautions".

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## 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:	blue
Odour:	characteristic
Odour threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	30 - 200 °C
Flammability:	Extremely flammable liquid and vapour.
Upper/lower flammability or explosive limits:	No data available
Flash point/flash point range:	< 0 °C
Decomposition temperature:	No data available
pH:	No data available
Viscosity, kinematic:	No data available
Solubility:	Soluble (organic solvents)
Water solubility:	Insoluble
Partition coefficient: n-octanol/water:	No data available
Vapour pressure:	at 38 °C: 55 - 65 kPa
Density:	at 15 °C: 0,680 - 0,720 g/mL
Vapour density:	No data available
Particle characteristics:	Not applicable

### 9.2 Other information

Explosive properties:	Vapours can form explosive mixtures with air.
Oxidizing characteristics:	No data available
Auto-ignition temperature:	No data available
Evaporation rate:	No data available
Additional information:	Not corrosive to metals

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Extremely flammable liquid and vapour.  
Vapours can form explosive mixtures with air.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Heating will lead to pressure increase: Danger of bursting and explosion.  
Hazardous polymerization does not occur.

### 10.4 Conditions to avoid

Keep away from heat sources, sparks and open flames.  
Protect from direct sunlight.



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### 10.5 Incompatible materials

Strong oxidizing agents.

### 10.6 Hazardous decomposition products

No hazardous decomposition products when regulations for storage and handling are observed.

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): > 2.000 mg/kg

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

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.  
ATEmix (calculated, vapour): > 20 mg/L/4h

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

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

Sensitisation to the respiratory tract: Based on available data, the classification criteria are not met.

Skin sensitisation: Based on available data, the classification criteria are not met.

Germ cell mutagenicity/Genotoxicity: 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.

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): Based on available data, the classification criteria are not met.

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





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### 11.2 Information on other hazards

Endocrine disrupting properties:

None

Other information:

Information about Naphtha (petroleum), full-range alkylate (CAS 64741-64-6):

LD50 Rat, oral: > 5.000 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 2.000 mg/kg (OECD 402)

LC50 Rat, inhalative (vapour): > 5,61 mg/L/4h (OECD 403)

Information about Naphtha (petroleum), isomerization (CAS 64741-70-4):

LD50 Rat, oral: > 5.000 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 2.000 mg/kg (OECD 402)

LC50 Rat, inhalative (vapour): > 5,61 mg/L/4h (OECD 403)

### Symptoms

In case of inhalation:

Irritation to respiratory tract, sore throat, respiratory pain, headache, dizziness, pneumonia, pulmonary oedema, unconsciousness.

In case of ingestion:

Abdominal pain, nausea, vomiting, pneumonia, unconsciousness, hemolysis, injuries of the internal organs.

After contact with skin:

Frequent or prolonged skin contact may cause irritation and inflammation. Redness, dry skin.

After eye contact: Irritation, causes tears, burning sensation.

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity:

Toxic to aquatic life with long lasting effects.

Information about Naphtha (petroleum), full-range alkylate (CAS 64741-64-6):

Fish toxicity:

LL50 Pimephales promelas (fathead minnow): 8,2 mg/L/96h

Daphnia toxicity:

EL50 Daphnia magna (Big water flea): 4,5 mg/L/48h (OECD 202)

Algae toxicity:

EL50 Pseudokirchneriella subcapitata (green algae): 3,1 mg/L/72h (OECD 201)

Information about Naphtha (petroleum), isomerization (CAS 64741-70-4):

Fish toxicity:

LL50 Pimephales promelas (fathead minnow): 8,2 mg/L/96h

Daphnia toxicity:

EL50 Daphnia magna (Big water flea): 4,5 mg/L/48h (OECD 202)

Algae toxicity:

EL50 Pseudokirchneriella subcapitata (green algae): 3,1 mg/L/72h (OECD 201)

Water Hazard Class:

3 = highly hazardous to water (Self-classification (mixture).)

Further details:

Product is not soluble in water, and floats on water.

### 12.2 Persistence and degradability

Further details:

No data available



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### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

No data available

### 12.4 Mobility in soil

Mobility: Low.

### 12.5 Results of PBT and vPvB assessment

The product does not contain any substances classified as PBT or vPvB.

### 12.6 Endocrine disrupting properties

None

### 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: 13 07 02\* = Petrol  
\* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.  
Do not dispose of with household waste.

#### Package

Recommendation: Dispose of waste according to applicable legislation. Handle empty containers with care.  
Incineration may cause explosion.  
Handle contaminated packages in the same way as the substance itself.  
Non-contaminated packages may be recycled.

## SECTION 14: Transport information

### 14.1 UN number or ID number

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

UN 1203

### 14.2 UN proper shipping name

ADR/RID: UN 1203, MOTOR SPIRIT  
ADN: UN 1203, Gasoline  
IMDG: UN 1203, MOTOR SPIRIT or GASOLINE or PETROL  
IATA-DGR: UN 1203, GASOLINE

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### 14.3 Transport hazard class(es)

ADR/RID, ADN: Class 3, Code: F1  
IMDG: Class 3, Subrisk -  
IATA-DGR: Class 3



### 14.4 Packing group

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



### 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: Kemmler-number 33, UN number UN 1203  
Hazard label: 3  
Special Provisions: 243 534 ADR664  
Limited quantities: 1 L  
EQ: E2  
Package - Instructions: P001 IBC02 R001  
Package - Special Provisions: BB2  
Special provisions for packing together: MP19  
Portable tanks - Instructions: T4  
Portable tanks - Special Provisions: TP1  
Tank coding: LGBF  
Tunnel restriction code: (D/E)

#### Inland waterway craft (ADN)

Hazard label: 3  
Special Provisions: 243 534  
Limited quantities: 1 L  
EQ: E2  
Transport permitted: T  
Equipment necessary: PP - EX - A  
ventilation: VE01



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### Sea transport (IMDG)

EmS: F-E, S-E  
Special Provisions: 243  
Limited quantities: 1 L  
Excepted quantities: E2  
Package - Instructions: P001  
Package - Provisions: -  
IBC - Instructions: IBC02  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: T4  
Tank instructions - Provisions: TP1  
Stowage and handling: Category E.  
Properties and observations: Immiscible with water.  
Segregation group: none

### Air transport (IATA)

Hazard label: Flamm. liquid  
Excepted Quantity Code: E2  
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y341 - Max. Net Qty/Pkg. 1 L  
Passenger and Cargo Aircraft: Pack.Instr. 353 - Max. Net Qty/Pkg. 5 L  
Cargo Aircraft only: Pack.Instr. 364 - Max. Net Qty/Pkg. 60 L  
Special Provisions: A100  
Emergency Response Guide-Code (ERG): 3H

### 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: 3 = Flammable liquids  
Water Hazard Class: 3 = highly hazardous to water (Self-classification (mixture).)  
Major Accident Ordinance (12. BImSchV):  
Physical hazards: Number 1.2.5.1 = Code P5a, Quantity threshold 10 000 kg / 50 000 kg  
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 controlled by the German Chemicals Prohibition Ordinance (ChemVerbotsV).

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**National regulations - EC member states****Labelling of packaging with <= 125mL content**

Signal word:

**Danger**

Hazard statements:

H224

Extremely flammable liquid and vapour.

H304

May be fatal if swallowed and enters airways.

H336

May cause drowsiness or dizziness.

Precautionary statements:

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233

Keep container tightly closed.

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.

P403+P235

Store in a well-ventilated place. Keep cool.

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, 40, 75

**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:

H224 = Extremely flammable liquid and vapour.

H304 = May be fatal if swallowed and enters airways.

H315 = Causes skin irritation.

H336 = May cause drowsiness or dizziness.

H411 = Toxic to aquatic life with long lasting effects.

EUH066 = Repeated exposure may cause skin dryness or cracking.

Date of first version:

21.8.2024

Department issuing data sheet:

see section 1: Department responsible for information



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### Abbreviations and acronyms:

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 Chronic: Hazardous to the aquatic environment - chronic  
AS/NZS: Australian Standards/New Zealand Standards  
Asp. Tox.: Aspiration toxicity  
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  
EL50: Effective loading rate 50%  
EN: European Standard  
EQ: Excepted quantities  
EU: European Union  
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  
LC50: Median lethal concentration  
LD50: Lethal dose 50%  
MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution from Ships  
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

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