

## 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 TOP 2000 FETTSPRAY

UFI: T300-P0GY-Y00C-GXQY

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

General use: Lubricant, lubricant.

### 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)

Aerosol 1; H222; H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

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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Hazard statements:	H222	Extremely flammable aerosol.
	H229	Pressurised container: May burst if heated.
	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.
	P211	Do not spray on an open flame or other ignition source.
	P251	Do not pierce or burn, even after use.
	P261	Avoid breathing mist/vapours/spray.
	P271	Use only outdoors or in a well-ventilated area.
	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection.
	P391	Collect spillage.
	P405	Store locked up.
	P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
	P501	Dispose of contents/container to hazardous or special waste collection point.

### Special labelling

EUH208 Contains Naphthenic acids, zinc salts and Polysulfides, di-tert-dodecyl. May produce an allergic reaction.

Text for labelling: Contains:  
n-Pentane  
Hydrocarbons, C6, isoalkanes, < 5% n-hexane  
Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane  
Cyclohexane

### 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. Vapours form potentially explosive mixtures with air. Heavier than air, they proceed at floor level and may backflash over great distances when ignited.

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 contains no components classified as PBT or as vPvB at concentrations of 0.1% or higher.

## 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 01-2119459286-30-xxxx EC No. 203-692-4 CAS 109-66-0	n-Pentane Flam. Liq. 1; H224. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411. (EUH066).	< 20 %
REACH 01-2119484651-34-xxxx list no. 931-254-9 CAS 64742-49-0	Hydrocarbons, C6, isoalkanes, < 5% n-hexane Flam. Liq. 2; H225. Skin Irrit. 2; H315. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411.	< 20 %
EC No. - CAS -	Hexane (isomeric mixture) Flam. Liq. 2; H225. Skin Irrit. 2; H315. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411.	< 20 %
REACH 01-2119486291-36-xxxx list no. 926-605-8 CAS 64742-49-0	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane Flam. Liq. 2; H225. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411. (EUH066).	< 10 %
REACH 01-2119463273-41-xxxx EC No. 203-806-2 CAS 110-82-7	Cyclohexane Flam. Liq. 2; H225. Skin Irrit. 2; H315. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. M-factors: Aquatic Acute 1: M = 1. Aquatic Chronic 1: M = 1.	< 10 %
EC No. 206-016-6 CAS 287-92-3	Cyclopentane Flam. Liq. 2; H225. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 3; H412. (EUH066).	< 2 %
EC No. - CAS -	Heptane (isomeric mixture) Flam. Liq. 2; H225. Skin Irrit. 2; H315. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Acute 1; H400. Aquatic Chronic 1; H410. M-factors: Aquatic Acute 1: M = 1. Aquatic Chronic 1: M = 1.	< 2 %
EC No. 203-777-6 CAS 110-54-3	n-Hexane Flam. Liq. 2; H225. Skin Irrit. 2; H315. Repr. 2; H361f. STOT SE 3; H336. STOT RE 2; H373. Asp. Tox. 1; H304. Aquatic Chronic 2; H411. Specific concentration limits (SCL): STOT RE 2; H373: C ≥ 5 %	< 1 %
REACH 01-2119540516-41-xxxx EC No. 270-335-7 CAS 68425-15-0	Polysulfides, di-tert-dodecyl Skin Sens. 1B; H317.	< 1 %
REACH 01-2120783834-41-xxxx EC No. 234-409-2 CAS 12001-85-3	Naphthenic acids, zinc salts Eye Irrit. 2; H319. Skin Sens. 1B; H317. Aquatic Chronic 2; H411.	< 1 %



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Identifiers	Designation Classification	Content
REACH 01-2119474691-32-xxxx EC No. 203-448-7 CAS 106-97-8	n-Butane, pure Flam. Gas 1A; H220. Press. Gas (Liq.); H280.	< 40 %
REACH 01-2119486944-21-xxxx EC No. 200-827-9 CAS 74-98-6	Propane Flam. Gas 1A; H220. Press. Gas (Liq.); H280.	< 15 %

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General information:	IF exposed or concerned: Get medical advice/attention. First aider: Pay attention to self-protection! 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:	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

Inhaling can lead to irritations of the respiratory tract and mucous membrane.  
Higher doses may lead to a narcotic effect.  
May cause drowsiness or dizziness. May be fatal if swallowed and enters airways.  
Causes skin irritation. May cause allergic reactions in already sensitized persons.

### 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.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, extinguishing powder, carbon dioxide.  
In case of large fires: Water spray jet, alcohol resistant foam.

Extinguishing media which must not be used for safety reasons:

Full water jet.



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

Extremely flammable aerosol. Pressurised container: May burst if heated.  
May form dangerous gases and vapours in case of fire.  
Furthermore, there may develop: 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. Use fine water spray to cool endangered containers.

Move undamaged containers from immediate hazard area if it can be done safely.

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. Provide adequate ventilation.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away.

Cordon off downwind area at risk and warn inhabitants.

### 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).

Thoroughly clean surrounding area.

Allow small spillages to evaporate provided there is adequate ventilation.

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

### 6.4 Reference to other sections

Refer additionally to section 8 and 13.



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## 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.  
When handling large quantities, supply emergency spray.

Precautions against fire and explosion:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source.  
Vapours form potentially explosive mixtures with air. Heavier than air, they proceed at floor level and may backflash over great distances when ignited.

### 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 sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
Store containers in upright position.  
Storage temperature: 15 - 35 °C  
Storage stability: at the lowest estimate 24 months.

Hints on joint storage:

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

Storage class:

2B = aerosol dispensers and lighters

### 7.3 Specific end use(s)

No information available.



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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
109-66-0	n-Pentane	Europe: IOELV: TWA Germany: TRGS 900 Kurzzeit Germany: TRGS 900 Langzeit	3.000 mg/m <sup>3</sup> ; 1.000 ppm 6.000 mg/m <sup>3</sup> ; 2.000 ppm 3.000 mg/m <sup>3</sup> ; 1.000 ppm
64742-49-0	Hydrocarbons, C6, isoalkanes, < 5% n-hexane	Germany: TRGS 900 Kurzzeit  Germany: TRGS 900 Langzeit	1.400 mg/m <sup>3</sup> (hydrocarbons, aliphatic, C6-C8)  700 mg/m <sup>3</sup> (hydrocarbons, aliphatic, C6-C8)
-	Hexane (isomeric mixture)	Germany: TRGS 900 Kurzzeit  Germany: TRGS 900 Langzeit	3.600 mg/m <sup>3</sup> ; 1.000 ppm  1.800 mg/m <sup>3</sup> ; 500 ppm
64742-49-0	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	Germany: TRGS 900 Kurzzeit  Germany: TRGS 900 Langzeit	1.400 mg/m <sup>3</sup> (hydrocarbons, aliphatic, C6-C8)  700 mg/m <sup>3</sup> (hydrocarbons, aliphatic, C6-C8)
110-82-7	Cyclohexane	Europe: IOELV: TWA Germany: TRGS 900 Kurzzeit Germany: TRGS 900 Langzeit	700 mg/m <sup>3</sup> ; 200 ppm 2.800 mg/m <sup>3</sup> ; 800 ppm 700 mg/m <sup>3</sup> ; 200 ppm
287-92-3	Cyclopentane	Germany: TRGS 900 Kurzzeit Germany: TRGS 900 Langzeit	3.600 mg/m <sup>3</sup> ; 1.000 ppm 1.800 mg/m <sup>3</sup> ; 500 ppm
110-54-3	n-Hexane	Europe: IOELV: TWA Germany: TRGS 900 Kurzzeit Germany: TRGS 900 Langzeit	72 mg/m <sup>3</sup> ; 20 ppm 1.440 mg/m <sup>3</sup> ; 400 ppm 180 mg/m <sup>3</sup> ; 50 ppm
68425-15-0	Polysulfides, di-tert-dodecyl	Germany: TRGS 900 Kurzzeit  Germany: TRGS 900 Langzeit	20 mg/m <sup>3</sup> (respirable fraction)  5 mg/m <sup>3</sup> (respirable fraction)
106-97-8	n-Butane, pure	Germany: TRGS 900 Kurzzeit Germany: TRGS 900 Langzeit	9.600 mg/m <sup>3</sup> ; 4.000 ppm 2.400 mg/m <sup>3</sup> ; 1.000 ppm
74-98-6	Propane	Germany: TRGS 900 Kurzzeit Germany: TRGS 900 Langzeit	7.200 mg/m <sup>3</sup> ; 4.000 ppm 1.800 mg/m <sup>3</sup> ; 1.000 ppm



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Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
110-82-7	Cyclohexane	Germany: TRGS 903, urine	150 mg/g creatinine	1,2-Cyclohexandiol, Following hydrolysis:	at long term exposure, end of exposure or end of shift
110-54-3	n-Hexane	Germany: TRGS 903, urine	5 mg/L	2,5-Hexandion + 4,5-Dihydroxy-2-hexanon, Following hydrolysis:	end of exposure or end of shift

DNEL/DMEL:

Information about n-Pentane (CAS 109-66-0):

DNEL, workers, inhalative, systemic, long-term: 3.000 mg/m<sup>3</sup>

DNEL, workers, dermal, systemic, long-term: 432 mg/kg bw/d

DNEL, consumers, inhalative, systemic, long-term: 643 mg/m<sup>3</sup>

DNEL, consumers, dermal, systemic, long-term: 214 mg/kg bw/d

DNEL, consumers, oral, systemic, long-term: 214 mg/kg bw/d

Information about Hydrocarbons, C6, isoalkanes, < 5% n-hexane (List no. 931-254-9):

DNEL, workers, inhalative, systemic, long-term: 5.306 mg/m<sup>3</sup>

DNEL, workers, dermal, systemic, long-term: 13.964 mg/kg bw/d

DNEL, consumers, inhalative, systemic, long-term: 1.131 mg/m<sup>3</sup>

DNEL, consumers, dermal, systemic, long-term: 1.377 mg/kg bw/d

DNEL, consumers, oral, systemic, long-term: 1.301 mg/kg bw/d

Information about Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane (List no. 926-605-8):

DNEL, workers, inhalative, systemic, long-term: 5.306 mg/m<sup>3</sup>

DNEL, workers, dermal, systemic, long-term: 13.964 mg/kg bw/d

DNEL, consumers, inhalative, systemic, long-term: 1.131 mg/m<sup>3</sup>

DNEL, consumers, dermal, systemic, long-term: 1.377 mg/kg bw/d

DNEL, consumers, oral, systemic, long-term: 1.301 mg/kg bw/d

## 8.2 Exposure controls

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

## 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.

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: Nitriles

Layer thickness: 0,4 mm

Breakthrough time: > 480 min

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

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





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### General protection and hygiene measures:

- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source.
- Avoid breathing mist/vapours/spray. Do not get in eyes, on skin, or on clothing.
- When using do not eat or drink. Contaminated work clothing should not be allowed out of the workplace.
- Wash hands thoroughly after handling. Take off contaminated clothing and wash it before reuse.
- When handling large quantities, supply emergency spray.

### Environmental exposure controls

Refer to "6.2 Environmental precautions".

## 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:	Form: Aerosol bright green
Odour:	Similar to benzine
Odour threshold:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	Not applicable
Flammability:	Extremely flammable aerosol.
Upper/lower flammability or explosive limits:	LEL (Lower Explosion Limit): Not applicable UEL (Upper Explosive Limit): Not applicable
Flash point/flash point range:	Not applicable
Auto-ignition temperature:	Not applicable
Decomposition temperature:	No data available
pH:	Not applicable
Viscosity, kinematic:	No data available
Water solubility:	Immiscible
Partition coefficient: n-octanol/water:	No data available
Vapour pressure:	No data available
Density:	at 20 °C: 0,662 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:	Not self-igniting
Evaporation rate:	No data available



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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Extremely flammable aerosol.  
Vapours can form explosive mixtures with air.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

Pressurised container: May burst if heated.  
Vapours form potentially explosive mixtures with air. Heavier than air, they proceed at floor level and may backflash over great distances when ignited.

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Do not spray on an open flame or other ignition source. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

### 10.5 Incompatible materials

Acids, oxidizing agents.

### 10.6 Hazardous decomposition products

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

Thermal decomposition: No data available



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## 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.

Acute toxicity (dermal): Based on available data, the classification criteria are not met.

Acute toxicity (inhalative): Based on available data, the classification criteria are not met.

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

Serious eye damage/irritation: Lack of data.

Sensitisation to the respiratory tract: Lack of data.

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

Contains Naphthenic acids, zinc salts and Polysulfides, di-tert-dodecyl. May produce an allergic reaction.

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:

None

Other information:

Information about n-Pentane (CAS 109-66-0):

LD50 Rat, oral: > 2.000 mg/kg (OECD 401)

Information about Hydrocarbons, C6, isoalkanes, < 5% n-hexane (List no. 931-254-9):

LD50 Rat, oral: > 16.750 mg/kg (OECD 401)

LD50 Rabbit, dermal: > 3.350 mg/kg (OECD 402)

LC50 Rat, inhalative (vapour): 259,354 mg/L/4h (OECD 403)

Information about Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane (List no. 926-605-8):

LD50 Rat, oral: > 5.000 mg/kg (OECD 423)

LD50 Rabbit, dermal: ≥ 3.160 mg/kg (OECD 402)

LC50 Rat, inhalative (vapour): ≥ 6,1 mg/L/4h (OECD 403)

Information about n-Butane, pure (CAS 106-97-8):

LC50 Mouse, inhalative (gas): 539.600 ppm/120 min

Information about Propane (CAS 74-98-6):

LC50 Rat, inhalative: > 20 mg/L/4h

## SECTION 12: Ecological information

### 12.1 Toxicity

Aquatic toxicity: Toxic to aquatic life with long lasting effects.



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

### 12.2 Persistence and degradability

Further details: No data available

### 12.3 Bioaccumulative potential

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

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

The product contains no components classified as PBT or as vPvB at concentrations of 0.1% or higher.

### 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: 16 05 04\* = Gases in pressure containers (including halons) containing hazardous substances/Aerosol  
\* = Evidence for disposal must be provided.

Recommendation: Do not pierce or burn, even after use.  
Special waste. Dispose of waste according to applicable legislation.  
Do not dispose of with household waste.

#### Package

Waste key number: 15 01 10\* = Packaging containing residues of or contaminated by dangerous substances  
\* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.  
Empty carefully and completely, if possible. Handle empty containers with care.  
Incineration may cause explosion.

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR/RID, ADN, IMDG, IATA-DGR:  
UN 1950

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### 14.2 UN proper shipping name

ADR/RID, ADN: UN 1950, AEROSOLS  
IMDG: UN 1950, AEROSOLS (n-Pentane), MARINE POLLUTANT  
IATA-DGR: UN 1950, AEROSOLS, FLAMMABLE

### 14.3 Transport hazard class(es)

ADR/RID, ADN: Class 2, Code: 5F  
IMDG: Class 2.1, Subrisk -  
IATA-DGR: Class 2.1



### 14.4 Packing group

ADR/RID, ADN, IATA-DGR: not applicable  
IMDG: -

### 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: RID: Kemmler-number 23, UN number UN 1950  
Hazard label: 2.1  
Special Provisions: 190 327 344 625  
Limited quantities: 1 L  
EQ: E0  
Package - Instructions: P207 LP200  
Package - Special Provisions: PP87 RR6 L2  
Special provisions for packing together: MP9  
Tunnel restriction code: (D)  
Remarks: ADR/RID: Transport as "limited quantity" according to chapter 3.4 ADR/RID (> 8.000 kg total gross mass): Tunnel restriction code (E)

#### Inland waterway craft (ADN)

Hazard label: 2.1  
Special Provisions: 190 327 344 625  
Limited quantities: 1 L  
EQ: E0  
Equipment necessary: PP - EX - A  
ventilation: VE01,VE04



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### Sea transport (IMDG)

EmS: F-D, S-U  
Special Provisions: 63 190 277 327 344 381 959  
Limited quantities: 1000 mL  
Excepted quantities: E0  
Package - Instructions: P207, LP200  
Package - Provisions: PP87, L2  
IBC - Instructions: -  
IBC - Provisions: -  
Tank instructions - IMO: -  
Tank instructions - UN: -  
Tank instructions - Provisions: -  
Stowage and handling: SW1 SW22  
Segregation: SG69  
Properties and observations: -  
Segregation group: none

### Air transport (IATA)

Hazard label: Flamm. gas  
Excepted Quantity Code: E0  
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G  
Passenger and Cargo Aircraft: Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg  
Cargo Aircraft only: Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg  
Special Provisions: A145 A167 A802  
Emergency Response Guide-Code (ERG): 10L

### 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: 2B = aerosol dispensers and lighters  
Water Hazard Class: 2 = obviously hazardous to water (Self-classification (mixture; calculation rule).)  
Major Accident Ordinance (12. BImSchV):  
Physical hazards: Number 1.2.3.1 = Code P3a,  
Quantity threshold 150 000 kg / 500 000 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:  
No data available

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

Signal word:

**Danger**

Hazard statements:

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H336 May cause drowsiness or dizziness.  
EUH208 Contains Naphthenic acids, zinc salts and Polysulfides, di-tert-dodecyl. May produce an allergic reaction.

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.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P261 Avoid breathing mist/vapours/spray.  
P271 Use only outdoors or in a well-ventilated area.  
P405 Store locked up.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.  
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, 57, 75

**15.2 Chemical Safety Assessment**

For this mixture a chemical safety assessment is not required.



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### SECTION 16: Other information

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

H220 = Extremely flammable gas.  
H222 = Extremely flammable aerosol.  
H224 = Extremely flammable liquid and vapour.  
H225 = Highly flammable liquid and vapour.  
H229 = Pressurised container: May burst if heated.  
H280 = Contains gas under pressure; may explode if heated.  
H304 = May be fatal if swallowed and enters airways.  
H315 = Causes skin irritation.  
H317 = May cause an allergic skin reaction.  
H319 = Causes serious eye irritation.  
H336 = May cause drowsiness or dizziness.  
H361f = Suspected of damaging fertility.  
H373 = May cause damage to organs through prolonged or repeated exposure.  
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.  
H412 = Harmful to aquatic life with long lasting effects.  
EUH066 = Repeated exposure may cause skin dryness or cracking.  
EUH208 = Contains Naphthenic acids, zinc salts and Polysulfides, di-tert-dodecyl. May produce an allergic reaction.

Reason of change: Changes in section 3: Composition / Information on ingredients  
Changes in section 9: Physical and chemical properties  
Changes in section 11 and 12: Endocrine disrupting properties, results of PBT and vPvB assessment  
General revision

Date of first version: 14.4.2021

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  
Aerosol: Aerosol  
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  
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  
EN: European Standard  
EQ: Excepted quantities  
EU: European Union  
Eye Irrit.: Eye irritation  
Flam. Gas: Flammable gases  
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%  
LEL: Lower Explosion Limit  
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  
Press. Gas: Gases under pressure  
REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals  
Repr.: Reproductive toxicity  
RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail  
Skin Irrit.: Skin irritation  
Skin Sens.: Skin sensitisation  
STOT RE: Specific target organ toxicity - repeated exposure  
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.

Most recent product information is available at:  
<http://sumdat.net/cvk5iqv6>

