



SAFETY DATA SHEET

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

AUTOL TOP 2000 FAT SPRAY

Material number 16120

Revision date: 24.11.2023

Version: 4.3

Replaces version: 4.2

Language: en-DE

Date of print: 28.11.2023

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

1.1 Product identifier

Trade name: AUTOL TOP 2000 FAT SPRAY

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: Eni Schmiertechnik GmbH

Street/POB-No.: Paradiesstraße 14

Postal Code, city: 97080 Würzburg

Germany

WWW: www.enischmiertechnik.de

E-mail: info.wuerzburg@eni.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@eni.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

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.



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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:

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

SECTION 3: Composition/information on ingredients

3.1 Substances: not applicable

3.2 Mixtures

Chemical characterisation: Mixture of the substance mentioned below with non-hazardous additions



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Hazardous ingredients:

Identifiers	Designation Classification	Content
REACH 01-2119459286-30-xxxx EC No. 203-692-4 CAS 109-66-0	n-Pentane Flam. Liq. 2; H225. STOT SE 3; H336. Asp. Tox. 1; H304. Aquatic Chronic 2; H411. (EUH066).	10 - 25 %
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.	< 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.	10 - 14,9 %
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).	2,5 - 10 %
REACH 01-2119480412-44-xxxx 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 %	0,25 - 2,49 %
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 %
REACH 01-2119540516-41-xxxx EC No. 270-335-7 CAS 68425-15-0	Polysulfides, di-tert-dodecyl Skin Sens. 1B; H317.	< 1 %
REACH 01-2119485395-27-xxxx EC No. 200-857-2 CAS 75-28-5	i-butane; <0,1% butadiene Flam. Gas 1A; H220. Press. Gas (Liq.); H280.	< 2,5 %
REACH 01-2119486944-21-xxxx EC No. 200-827-9 CAS 74-98-6	Propane Flam. Gas 1A; H220. Press. Gas (Liq.); H280.	2,5 - 10 %
REACH 01-2119474691-32-xxxx EC No. 203-448-7 CAS 106-97-8	Butane, pure Flam. Gas 1A; H220. Press. Gas (Liq.); H280.	10 - 25 %

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! Take off contaminated clothing and wash it before reuse. Seek medical treatment in case of troubles.
In case of inhalation:	Provide fresh air.



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- 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. Subsequently consult an ophthalmologist.
- After swallowing: Do not induce vomiting. Rinse mouth and seek medical attention immediately.

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.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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.

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.

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:

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.



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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).

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

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. 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: oxidizing agents.

Keep away from food, drink and animal feedingstuffs.

Storage class:

2B = Aerosols

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	3000 mg/m ³ ; 1000 ppm 6000 mg/m ³ ; 2000 ppm 3000 mg/m ³ ; 1000 ppm
110-82-7	Cyclohexane	Europe: IOELV: TWA Germany: TRGS 900 Kurzzeit Germany: TRGS 900 Langzeit	700 mg/m ³ ; 200 ppm 2800 mg/m ³ ; 800 ppm 700 mg/m ³ ; 200 ppm
64742-49-0	Hydrocarbons, C6, isoalkanes, < 5% n-hexane	Germany: TRGS 900 Kurzzeit Germany: TRGS 900 Langzeit	1400 mg/m ³ (hydrocarbons, aliphatic, C6-C8) 700 mg/m ³ (hydrocarbons, aliphatic, C6-C8)
64742-49-0	Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane	Germany: TRGS 900 Kurzzeit Germany: TRGS 900 Langzeit	1400 mg/m ³ (hydrocarbons, aliphatic, C6-C8) 700 mg/m ³ (hydrocarbons, aliphatic, C6-C8)
110-54-3	n-Hexane	Europe: IOELV: TWA Germany: TRGS 900 Kurzzeit Germany: TRGS 900 Langzeit	72 mg/m ³ ; 20 ppm 1440 mg/m ³ ; 400 ppm 180 mg/m ³ ; 50 ppm
68425-15-0	Polysulfides, di-tert-dodecyl	Germany: TRGS 900 Kurzzeit Germany: TRGS 900 Langzeit	20 mg/m ³ (respirable fraction) 5 mg/m ³ (respirable fraction)
75-28-5	i-butane; <0,1% butadiene	Germany: TRGS 900 Kurzzeit Germany: TRGS 900 Langzeit	9600 mg/m ³ ; 4000 ppm 2400 mg/m ³ ; 1000 ppm
74-98-6	Propane	Germany: TRGS 900 Kurzzeit Germany: TRGS 900 Langzeit	7200 mg/m ³ ; 4000 ppm 1800 mg/m ³ ; 1000 ppm
106-97-8	Butane, pure	Germany: TRGS 900 Kurzzeit Germany: TRGS 900 Langzeit	9600 mg/m ³ ; 4000 ppm 2400 mg/m ³ ; 1000 ppm

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



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DNEL/DMEL:

Information about n-Pentane:

DNEL workers, inhalative, long-term, systemic: 3.000 mg/m³

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

DNEL consumers, inhalative, long-term, systemic: 643 mg/m³

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

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

Information about Hydrocarbons, C6, isoalkanes, < 5% n-hexane:

DNEL workers, inhalative, long-term, systemic: 5.306 mg/m³

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

DNEL consumers, inhalative, long-term, systemic: 1.131 mg/m³

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

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

Information about Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane:

DNEL workers, inhalative, long-term, systemic: 5.306 mg/m³

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

DNEL consumers, inhalative, long-term, systemic: 1.131 mg/m³

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

DNEL consumers, oral, long-term, systemic: 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: Use filter type AX (= against vapours of low boiling organic substances) according to 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 374.

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.

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

Form: Aerosol

Colour:

bright green



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Odour:	Similar to benzine
Odour threshold:	No data available
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	-44 °C (propellant)
Flammability:	Extremely flammable aerosol.
Upper/lower flammability or explosive limits:	LEL (Lower Explosion Limit) at 20 °C: 0,80 Vol-% (3 - 5 bar) UEL (Upper Explosive Limit) at 20 °C: 8,50 Vol-% (3 - 5 bar)
Flash point/flash point range:	Not applicable
Decomposition temperature:	250 °C
pH:	Not applicable
Viscosity, kinematic:	No data available
Water solubility:	Immiscible
Partition coefficient: n-octanol/water:	No data available
Vapour pressure:	3000 - 5000 hPa
Density:	at 20 °C: 0,682 g/mL
Vapour density:	No data available
Particle characteristics:	Not applicable

9.2 Other information

Explosive properties:	No data available
Oxidizing characteristics:	Vapours can form explosive mixtures with air.
Auto-ignition temperature:	Not self-igniting
Evaporation rate:	No data available
Additional information:	Solvent content: 44,0%

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

Oxidizing agents.

10.6 Hazardous decomposition products

Thermal decomposition:	No hazardous decomposition products when regulations for storage and handling are observed. 250 °C
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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: 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.

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

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.

11.2 Information on other hazards

Endocrine disrupting properties: None

Other information:

Information about Pentane:

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

LC50, Rat, inhalative: >25,3 mg/L/4h (OECD TG 403)

Information about cyclohexane:

LD50, Rat, oral: 12.705 mg/kg

LD50, Rabbit, dermal: >2.000 mg/kg

LC50, Rat, oral: >32,8 mg/L/4h

Information about Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane and

Hydrocarbons, C6, isoalkanes, < 5% n-hexane (in each case, CAS 64742-49-0):

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

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

LC50, Rat, oral: > 259 mg/L/4h (OECD TG 403, read across)

Information about n-Hexane:

LD50, Rat, oral: 16.000 mg/kg

LD50, Rabbit, dermal: > 3.350 mg/kg

LC50, Rat, oral: > 17,6 mg/L/4h

Information about n-Butane, pure:

LC50 Rat, inhalative: 658 mg/L/4 h

Information about Propane:

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

Information about i-butane; <0,1% butadiene:

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



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SECTION 12: Ecological information

12.1 Toxicity

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

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

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 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: 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 04 = metallic packaging

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

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



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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

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



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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 = Aerosols
Water Hazard Class:	2 = obviously hazardous to water (Self-classification (mixture).)
Incident regulation:	Richtlinie 2012/18/EU (Seveso III): Physikalische Gefahren: Ziffer 1.2.3.1 = Code P3a, Mengenschwelle 150 000kg / 500 000kg Umweltgefahren: Ziffer 1.3.2 = Code E2, Mengenschwelle 200 000kg / 500 000kg
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

Volatile organic compounds (VOC):	73,6 % by weight
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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. P273 Avoid release to the environment. 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.



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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 Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: E2 and P3a

15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.

SECTION 16: Other information

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

H220 = Extremely flammable gas.

H222 = Extremely flammable aerosol.

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.

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 14: ADR/RID

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
- 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
- TRGS: Technical Rules for Hazardous Substances
- UN: United Nations
- vPvB: Very persistent and very bioaccumulative

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>

