

Safety data sheet
 according to 1907/2006/EC, Article 31

Printing date 26.06.2023

Version number 3 (replaces version 2)

Revision: 26.06.2023

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

- **1.1 Product identifier**
 - **Trade name: Haftgrund rotbraun**
 - **UFI: M2A0-D0HS-T00K-7XG2**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
 No further relevant information available.
 - **Application of the substance / the mixture** Anticorrosion additive
- **1.3 Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
 Fermit GmbH
 Zur Heide 4,
 D- 53560 Vettelschoß
 www.fermit.de
 - **Informing department:**
 Tel.: +49 (0) 2645-2207
 Fax: +49 (0) 2645-3113
 Email: info@fermit.de
- **1.4 Emergency telephone number:** Tel.: +49 (0) 2645-2207

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

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



GHS07

 Eye Irrit. 2 H319 Causes serious eye irritation.
 STOT SE 3 H336 May cause drowsiness or dizziness.

- **2.2 Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008**
 The product is classified and labelled according to the CLP regulation.
 - **Hazard pictograms**



GHS02 GHS07

- **Signal word** Danger
- **Hazard-determining components of labelling:**
 acetone
 n-butyl acetate
- **Hazard statements**
 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

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H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements

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.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

2.3 Other hazards**Results of PBT and vPvB assessment**• **PBT:** Not applicable.• **vPvB:** Not applicable.**Determination of endocrine-disrupting properties**

The product does not contain substances with endocrine disrupting properties.

SECTION 3: Composition/information on ingredients

3.2 Mixtures• **Description:** Mixture of the substances listed below including additives not requiring identification.**Dangerous components:**

CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-X	acetone ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	25 - 50%
CAS: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-X	n-butyl acetate ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336, EUH066	10 - 25%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-X	isobutane ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	10 - 25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 01-2119486944-21-X	propane ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	2.5 - 10%
CAS: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-X	xylene, mixed isomers, pure ⚠ Flam. Liq. 3, H226; ⚠ Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	≥ 2.5 - < 10%
CAS: 100-41-4 EINECS: 202-849-4 Reg.nr.: 05-2116469901-38-X	ethylbenzene ⚠ Flam. Liq. 2, H225; ⚠ STOT RE 2, H373; Asp. Tox. 1, H304; ⚠ Acute Tox. 4, H332; Aquatic Chronic 3, H412	< 2.5%

• **Additional information** For the wording of the listed hazard phrases refer to section 16.

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SECTION 4: First aid measures

- **4.1 Description of first aid measures**
 - **After inhalation**
Supply fresh air.
In case of persistent symptoms consult doctor.
 - **After skin contact**
Wash with water and soap.
In cases of freeze burns, rinse with plenty of water. Do not remove clothing.
 - **After eye contact**
Rinse opened eye for several minutes under running water.
In case of permanent aches and pains please go and see the doctor.
 - **After swallowing** Swallowing is not considered to be a possible way of exposure.
- **4.2 Most important symptoms and effects, both acute and delayed**
drowsiness
Dazed
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
 - **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fire with alcohol-resistant foam.
 - **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**
During incomplete combustion carbon monoxide can be formed.
Pressure build-up and risk of bursting when heated.
Vapours are heavier than air and may travel long distances along ground, ignite and flash back to source.
- **5.3 Advice for firefighters**
 - **Protective equipment:**
Do not inhale explosion gases or combustion gases.
In case of fire wear breathing equipment being independent of ambient air and suit provided full protection against chemicals.
 - **Additional information**
Cool endangered containers with water spray.
Remove goods in stock from incendiary zone, if possible.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Keep away from sources of ignition - No smoking.
Avoid contact to eyes, skin and clothes.
- **6.2 Environmental precautions:** Damp down gases/fumes/haze with water spray jet.
- **6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

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SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
 Keep away from heat and direct sunlight.
 Keep empty containers away from heat and ignition sources.
 Do not spray into the eyes.

· **Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.
 Beware: Container is pressurized. Keep away from direct sun exposure and temperatures over 50°C. Do not open by force or throw into fire even after use.
 Do not spray on flames or red-hot objects.

· 7.2 Conditions for safe storage, including any incompatibilities

· **Storage**

· **Requirements to be met by storerooms and containers:**

Observe official regulations on storing packagings with pressurised containers.

· **Information about storage in one common storage facility:**

Keep away from food, drink and animal feeding stuffs.
 Do not store together with oxidizing or self-igniting substances.

· **Further information about storage conditions:**

Store in cool, dry conditions in well sealed containers.
 Protect from heat and direct sunlight.

· 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· **Components with limit values that require monitoring at the workplace:**

WEL: workplace exposure limit
 OEL: Occupational Exposure Limit
 IOELV: Indicative Occupational Exposure Limit Values, workplace threshold value of the European Union

67-64-1 acetone

IOELV (European Union)	Long-term value: 1210 mg/m ³ , 500 ppm
WEL (Great Britain)	Short-term value: 3620 mg/m ³ , 1500 ppm Long-term value: 1210 mg/m ³ , 500 ppm

123-86-4 n-butyl acetate

IOELV (European Union)	Short-term value: 723 mg/m ³ , 150 ppm Long-term value: 241 mg/m ³ , 50 ppm
WEL (Great Britain)	Short-term value: 966 mg/m ³ , 200 ppm Long-term value: 724 mg/m ³ , 150 ppm

1330-20-7 xylene, mixed isomers, pure

IOELV (European Union)	Short-term value: 442 mg/m ³ , 100 ppm Long-term value: 221 mg/m ³ , 50 ppm Skin
WEL (Great Britain)	Short-term value: 441 mg/m ³ , 100 ppm Long-term value: 220 mg/m ³ , 50 ppm Sk; BMGV

100-41-4 ethylbenzene

IOELV (European Union)	Short-term value: 884 mg/m ³ , 200 ppm Long-term value: 442 mg/m ³ , 100 ppm Skin
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WEL (Great Britain)	Short-term value: 552 mg/m ³ , 125 ppm Long-term value: 441 mg/m ³ , 100 ppm Sk
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· DNELs**67-64-1 acetone**

Oral	DNEL (consumer, long-term, systemic)	62 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	186 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	62 mg/kg bw/day (human)
Inhalative	DNEL (worker, long-term, systemic)	1,210 mg/m ³ (human)
	DNEL (consumer, long-term, systemic)	200 mg/m ³ (human)
	DNEL (worker, short-term, local)	2,420 mg/m ³ (human)

123-86-4 n-butyl acetate

Oral	DNEL (consumer, short-term, systemic)	2 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	2 mg/kg bw/day (human)
Dermal	DNEL (worker, short-term, systemic)	11 mg/kg bw/day (human)
	DNEL (worker, long-term, systemic)	11 mg/kg bw/day (human)
	DNEL (consumer, short-term, systemic)	6 mg/kg bw/day (human)
Inhalative	DNEL (consumer, long-term, systemic)	6 mg/kg bw/day (human)
	DNEL (worker, short-term, systemic)	600 mg/m ³ (.)
	DNEL (worker, long-term, systemic)	300 mg/m ³ (.)
	DNEL (consumer, short-term, systemic)	300 mg/m ³ (human)
	DNEL (consumer, long-term, systemic)	35.7 mg/m ³ (human)
	DNEL (worker, short-term, local)	600 mg/m ³ (.)
	DNEL (worker, long-term, local)	300 mg/m ³ (human)
Inhalative	DNEL (consumer, short-term, local)	300 mg/m ³ (human)
	DNEL (consumer, long-term, local)	35.7 mg/m ³ (human)

1330-20-7 xylene, mixed isomers, pure

Oral	DNEL (consumer, long-term, systemic)	1.6 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	180 mg/kg bw/day (human)
	DNEL (consumer, long-term, systemic)	108 mg/kg bw/day (human)
Inhalative	DNEL (worker, short-term, systemic)	289 mg/m ³ (human)
	DNEL (worker, long-term, systemic)	77 mg/m ³ (human)
	DNEL (consumer, short-term, systemic)	174 mg/m ³ (human)
	DNEL (consumer, long-term, systemic)	14.8 mg/m ³ (human)
	DNEL (worker, short-term, local)	289 mg/m ³ (human)
Inhalative	DNEL (consumer, short-term, local)	174 mg/m ³ (human)

100-41-4 ethylbenzene

Oral	DNEL (consumer, long-term, systemic)	1.6 mg/kg bw/day (human)
Dermal	DNEL (worker, long-term, systemic)	180 mg/kg bw/day (human)
Inhalative	DNEL (worker, long-term, systemic)	77 mg/m ³ (human)
	DNEL (consumer, long-term, systemic)	15 mg/m ³ (human)
	DNEL (worker, short-term, local)	293 mg/m ³ (human)

· PNECs**67-64-1 acetone**

PNEC aqua (freshwater)	10.6 mg/L (.)
PNEC aqua (marine water)	1.06 mg/L (.)
PNEC STP - Sewage Treatment Plant	100 mg/L (.)

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PNEC soil	29.5 mg/kg soil dw (.)
PNEC sediment (freshwater)	30.4 mg/kg sedim. dw (.)
PNEC sediment (marine water)	3.04 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	21 mg/L (.)
123-86-4 n-butyl acetate	
PNEC aqua (freshwater)	0.18 mg/L (.)
PNEC aqua (marine water)	0.018 mg/L (.)
PNEC STP - Sewage Treatment Plant	35.6 mg/L (.)
PNEC soil	0.09 mg/kg soil dw (.)
PNEC sediment (freshwater)	0.981 mg/kg sedim. dw (.)
PNEC sediment (marine water)	0.098 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	0.36 mg/L (.)
1330-20-7 xylene, mixed isomers, pure	
PNEC aqua (freshwater)	0.327 mg/L (.)
PNEC aqua (marine water)	0.327 mg/L (.)
PNEC STP - Sewage Treatment Plant	6.58 mg/L (.)
PNEC soil	2.31 mg/kg soil dw (.)
PNEC sediment (freshwater)	12.46 mg/kg sedim. dw (.)
PNEC sediment (marine water)	12.46 mg/kg sedim. dw (.)
PNEC aqua (intermittent releases)	0.327 mg/L (.)
100-41-4 ethylbenzene	
PNEC aqua (freshwater)	0.1 mg/L (.)
PNEC aqua (marine water)	0.01 mg/L (.)
PNEC STP - Sewage Treatment Plant	9.6 mg/L (.)
PNEC soil	2.68 mg/kg soil dw (.)
PNEC sediment (freshwater)	13.7 mg/kg sedim. dw (.)
PNEC sediment (marine water)	1.37 mg/kg sedim. dw (.)
PNEC oral	20 mg/kg food (.)
· Ingredients with biological limit values:	
1330-20-7 xylene, mixed isomers, pure	
BMGV (Great Britain)	650 mmol/mol creatinine Medium: urine Sampling time: post shift Parameter: methyl hippuric acid

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **8.2 Exposure controls**

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures**

- Avoid contact with the eyes and skin.
- Do not eat, drink or smoke while working.
- Wash hands during breaks and at the end of the work.
- Do not inhale gases / fumes / aerosols.

· **Breathing equipment:**

- Not necessary if room is well-ventilated.
- Use breathing protection in case of insufficient ventilation.
- Filter AX.

· **Hand protection**

- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **For the permanent contact gloves made of the following materials are suitable:**

Nitrile rubber, NBR
Butyl rubber, BR
Fluorocarbon rubber (Viton)

- **Eye/face protection**



Tightly sealed safety glasses.

- **Body protection:**

Wear antistatic clothing made from natural fibres (cotton) or heat-resistant synthetic fibres.

SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

• Physical state	Aerosol
• Colour:	Red-brown
• Odour:	Characteristic
• Odour threshold:	Not determined.
• Melting point/freezing point:	Not determined
• Boiling point or initial boiling point and boiling range	Not applicable, as aerosol
• Flammability	Not applicable.
• Lower and upper explosion limit	
• Lower:	1.4 Vol %
• Upper:	13 Vol %
• Flash point:	ca. -80 °C
• Decomposition temperature:	Not determined.
• SADT	
• pH	Not determined.
• Viscosity:	
• Kinematic viscosity	Not determined.
• dynamic:	Not determined.
• Solubility	
• Water:	Partly soluble
• Partition coefficient n-octanol/water (log value)	Not determined.
• Vapour pressure:	Not determined.
• Density and/or relative density	
• Density	0.978 g/cm ³
• Particle characteristics	No further information.

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9.2 Other information**Appearance:****Form:**

Aerosol

Important information on protection of health and environment, and on safety.**Explosive properties:**

Not determined.

Change in condition**Evaporation rate**

Not applicable.

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

Void

Flammable gases

Void

Aerosols

Extremely flammable aerosol. Pressurised container: May burst if heated.

Oxidising gases

Void

Gases under pressure

Void

Flammable liquids

Void

Flammable solids

Void

Self-reactive substances and mixtures

Void

Pyrophoric liquids

Void

Pyrophoric solids

Void

Self-heating substances and mixtures

Void

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

Void

Oxidising liquids

Void

Oxidising solids

Void

Organic peroxides

Void

Corrosive to metals

Void

Desensitised explosives

Void

SECTION 10: Stability and reactivity

• **10.1 Reactivity** No further relevant information available.

• **10.2 Chemical stability**

• **Thermal decomposition / conditions to be avoided:**

Avoid direct sunlight, heat and ignition sources.

• **10.3 Possibility of hazardous reactions**

Danger of containers bursting because of high vapour pressure

• **10.4 Conditions to avoid** No further relevant information available.

• **10.5 Incompatible materials:** Strong oxidizing agents

• **10.6 Hazardous decomposition products:**

None in case of intended use and storage in compliance with instructions.

SECTION 11: Toxicological information

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

• **Acute toxicity** Based on available data, the classification criteria are not met.

• **LD/LC50 values that are relevant for classification:**

67-64-1 acetone

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	> 7,426 mg/kg (guinea pig) (21 CFR 191.10)
		> 7,426 mg/kg (rabbit) (21 CFR 191.10)

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Inhalative	LC50	132 mg/l/3h (rat)
123-86-4 n-butyl acetate		
Oral	LD50	11,775 mg/kg (rat) (OECD 423)
Dermal	LD50	> 14,000 mg/kg (rabbit) (OECD 402)
1330-20-7 xylene, mixed isomers, pure		
Oral	LD50	5,251 mg/kg (rat) (EU Method B.1)
Dermal	LD50	> 4,200 mg/kg (rabbit)
Inhalative	LC50	29 mg/l/4h (rat) (EU Method B.2)
100-41-4 ethylbenzene		
Oral	LD50	3,500 mg/kg (rat)
Dermal	LD50	17,800 mg/kg (rabbit)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** 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.
- **STOT-single exposure**
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**

- **Repeated dose toxicity**

67-64-1 acetone

Oral | NOAEL (90d) | 3,100 mg/kg bw/day (rat) (OECD 408)

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

67-64-1 acetone

EC50	> 10,000 mg/l/24h (Daphnia magna)
LC50 (dynamic)	8,120 mg/l/96h (Pimephales promelas) (OECD 203)

123-86-4 n-butyl acetate

EC50 (static)	44 mg/l/48h (Daphnia magna) (OECD 202)
LC50 (dynamic)	18 mg/l/96h (Pimephales promelas) (OECD 203)
EC50	675 mg/l/72h (Desmodesmus subspicatus)

1330-20-7 xylene, mixed isomers, pure

EC50 (dynamic)	3.82 mg/l/48h (Daphnia magna)
LC50 (static)	2.6 mg/l/96h (Oncorhynchus mykiss) (OECD 203)
EC50 (static)	4.9 mg/l/72h (Raphidocelis subcapitata) (OECD 201)

100-41-4 ethylbenzene

LC50	5.1 mg/l/96h (Menidia menidia)
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- **12.2 Persistence and degradability** No further relevant information available.
- **Other information:** There are no data available about the preparation.

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- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
 - **Additional ecological information:**
 - **General notes:**
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
 - **Recommendation**
Proceed according to local, official regulations.
The waste code numbers mentioned are recommendations based on the probable use of the product.

- **European waste catalogue**

16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 04*	gases in pressure containers (including halons) containing hazardous substances
14 00 00	WASTE ORGANIC SOLVENTS, REFRIGERANTS AND PROPELLANTS (EXCEPT 07 AND 08)
14 06 00	waste organic solvents, refrigerants and foam/aerosol propellants
14 06 03*	other solvents and solvent mixtures
HP3	Flammable
HP4	Irritant - skin irritation and eye damage
HP5	Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

- **Uncleaned packagings:**
 - **Recommendation:**
After use the packaging shall be discharged completely.
Dispose of packaging according to regulations on the disposal of packagings.

SECTION 14: Transport information

- **14.1 UN number or ID number**
 - **ADR/RID, IMDG, IATA** UN1950
- **14.2 UN proper shipping name**
 - **ADR/RID** 1950 AEROSOLS
 - **IMDG** AEROSOLS
 - **IATA** AEROSOLS, flammable

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· **14.3 Transport hazard class(es)**

· **ADR/RID**



- **Class** 2.5F Gases.
- **Label** 2.1

· **IMDG, IATA**



- **Class** 2.1 Gases.
- **Label** 2.1

· **14.4 Packing group**

- **ADR/RID, IMDG, IATA** Void

· **14.5 Environmental hazards:**

- **Marine pollutant:** No

· **14.6 Special precautions for user**

- **Warning:** Gases.
- **Kemler Number:** -
- **EMS Number:** F-D,S-U
- **Stowage Code** SW1 Protected from sources of heat.
SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.
- **Segregation Code** SG69 For AEROSOLS with a maximum capacity of 1 litre:
Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.
For AEROSOLS with a capacity above 1 litre:
Segregation as for the appropriate subdivision of class 2.
For WASTE AEROSOLS:
Segregation as for the appropriate subdivision of class 2.

· **14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

· **Transport/Additional information:**

· **ADR/RID**

- **Limited quantities (LQ)** 1L
- **Excepted quantities (EQ)** Code: E0
Not permitted as Excepted Quantity
- **Transport category** 2
- **Tunnel restriction code** D

· **IMDG**

- **Limited quantities (LQ)** 1L
- **Excepted quantities (EQ)** Code: E0
Not permitted as Excepted Quantity

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· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1
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SECTION 15: Regulatory information

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

· Directive 2012/18/EU

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** P3a FLAMMABLE AEROSOLS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

67-64-1	acetone	
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· Regulation (EC) No 273/2004 on drug precursors

67-64-1	acetone	3
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· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

67-64-1	acetone	3
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· National regulations

- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

· Substances of very high concern (SVHC) according to REACH, Article 57

None of the ingredients is contained.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. This safety data sheet meets the requirements of Regulation (EU) 2015/830 and 2020/878 amending Annex II of Regulation (EC) 1907/2006.

· Relevant phrases

- | | |
|------|---|
| H220 | Extremely flammable gas. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H280 | Contains gas under pressure; may explode if heated. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H336 | May cause drowsiness or dizziness. |

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- H373 May cause damage to organs through prolonged or repeated exposure.
 H412 Harmful to aquatic life with long lasting effects.
 EUH066 Repeated exposure may cause skin dryness or cracking.

· **Department issuing data specification sheet:**

► **DEKRA** This Safety Data Sheet has been drawn up in cooperation with:
 DEKRA Assurance Services GmbH, Hanomagstr. 12, D-30449 Hanover, Germany,
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· **Version number of previous version: 2**

· **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern
 vPvB: very Persistent and very Bioaccumulative
 Flam. Gas 1A: Flammable gases – Category 1A
 Aerosol 1: Aerosols – Category 1
 Press. Gas (Comp.): Gases under pressure – Compressed gas
 Flam. Liq. 2: Flammable liquids – Category 2
 Flam. Liq. 3: Flammable liquids – Category 3
 Acute Tox. 4: Acute toxicity – Category 4
 Skin Irrit. 2: Skin corrosion/irritation – Category 2
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
 Asp. Tox. 1: Aspiration hazard – Category 1
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· *** Data compared to the previous version altered.**

EU