

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

Version number 2305 (replaces version 2303)

Revision: 02.05.2023

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

- · 1.1 Product identifier
- Trade name: MANNOL 9932 Rust Dissolver 450ml
- UFI: JQGV-D0VT-J002-DFJN
- **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 Corrosion remover
- 1.3 Details of the supplier of the safety data sheet
   Manufacturer/Supplier: SCT-Vertriebs GmbH Feldstrasse 154
   22880 WEDEL DEUTSCHLAND
   +49 (0)4103 1211 0
   info@sct-germany.de

 Further information obtainable from: Product safety department.
 1.4 Emergency telephone number: Members of the public seeking specific information on poisons should contact: In England and Wales: NHS 111 - dial 111 In Scotland: NHS 24 - dial 111

# **SECTION 2: Hazards identification**

· 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

GHS02	flame	
Aerosol 2	H223-H22	9 Flammable aerosol. Pressurised container: May burst if heated.
GHS08	health haza	ırd
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
GHS05	corrosion	
Eye Dam. 1	H318	Causes serious eye damage.
Aquatic Chronic 3	8 H412	Harmful to aquatic life with long lasting effects.
-	ling to Reg	ulation (EC) No 1272/2008 labelled according to the CLP regulation. (Contd. on page 2)

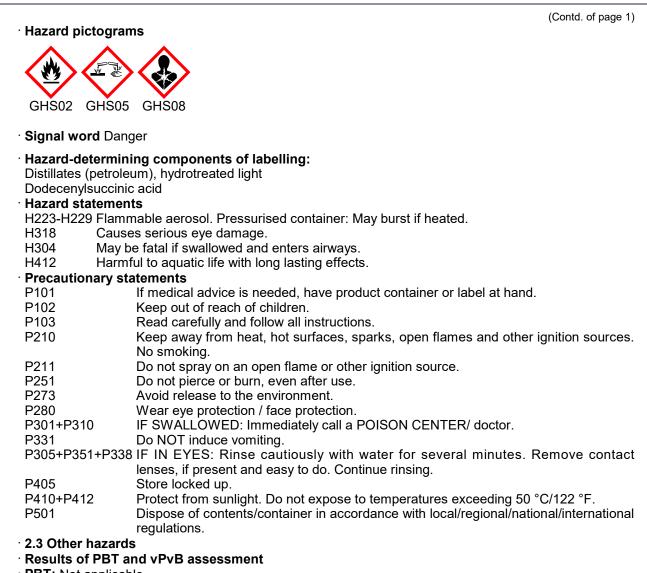


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- **PBT:** Not applicable.
- · vPvB: Not applicable.

## **SECTION 3: Composition/information on ingredients**

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:		
CAS: 64742-47-8	Distillates (petroleum), hydrotreated light	38–43%
EINECS: 265-149-8	Flam. Liq. 3, H226; Asp. Tox. 1, H304	
CAS: 106-97-8	butane, pure	16–21%
EINECS: 203-448-7	Flam. Gas 1A, H220; Press. Gas (Comp.), H280	
CAS: 29658-97-7	Dodecenylsuccinic acid	4.5-9.5%
EINECS: 249-757-0	Alternative CAS number: 11059-31-7	
	Eye Dam. 1, H318; Aquatic Chronic 3, H412	
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CAS: 74-98-6 propane	4–9%	
EINECS: 200-827-9 Flam. Gas 1A, H220; Press. Gas (Comp.), H280		
CAS: 111-76-2 2-butoxyethanol	1–5%	
EINECS: 203-905-0 Acute Tox. 3, H311; Acute Tox. 4, H302; Acute Tox. 4, H332; Ski Irrit. 2, H315; Eye Irrit. 2, H319 ATE: LD50 oral: 1,200 mg/kg	in	
CAS: 124-30-1 Octadecylamine	0.1–0.145%	
EINECS: 204-695-3 STOT RE 2, H373; Asp. Tox. 1, H304; Eye Dam. 1, H318; Aquati Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10); Skin I 2, H315	ic rrit.	
· Not dangerous substances		
CAS: 67254-74-4 Naphthenic oils	8–13%	
EC number: 614-042-8		
CAS: 90901-24-9 1-Tridecanamine, N-tridecyl, branched, reaction products		
EC number: 618-681-3 carbon disulfide 2-ethyl-N-(2-ethylhexyl)-1-hexanamine molybdenum oxide (MoO3)	e and	
Aquatic Chronic 2, H411; Skin Irrit. 2, H315		
• Additional information: For the wording of the listed hazard phrases refer to section 16.		

## **SECTION 4: First aid measures**

- · 4.1 Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **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. Do not use water.

Use fire extinguishing methods suitable to surrounding conditions.

Foam

Fire-extinguishing powder

Sand

- For safety reasons unsuitable extinguishing agents: Water
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.
- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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# **SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Particular danger of slipping on leaked/spilled product. Wear protective clothing.
- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Dispose contaminated material as waste according to section 13. 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 disposal information.

# SECTION 7: Handling and storage

## · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care.

- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Keep respiratory protective device available.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles:
- Observe official regulations on storing packagings with pressurised containers.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

# **SECTION 8: Exposure controls/personal protection**

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

106-97-8 butane, pure (21.0%)

- OEL Short-term value: 1000 ppm
- 74-98-6 propane (9.0%)

OEL Asphx

# 111-76-2 2-butoxyethanol (5.0%)

OEL Short-term value: 246 mg/m<sup>3</sup>, 50 ppm Long-term value: 98 mg/m<sup>3</sup>, 20 ppm Sk, IOELV

• Additional information: The lists valid during the making were used as basis.

## · 8.2 Exposure controls

• Appropriate engineering controls No further data; see section 7.

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- Individual protection measures, such as personal protective equipment
   General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Store protective clothing separately.
- **Respiratory protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- Hand protection



Protective gloves

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

Transparent

Product specific

Not determined.

Not applicable, as aerosol.

Not applicable, as aerosol.

Undetermined.

Not applicable.

Not determined.

Not determined.

Not determined.

Not determined.

#### · Eye/face protection



Tightly sealed goggles

# **SECTION 9: Physical and chemical properties**

- 9.1 Information on basic physical and chemical properties
- · General Information
- · Colour:
- · Odour:
- · Odour threshold:
- · Melting point/freezing point:
- Boiling point or initial boiling point and boiling
- range
- · Flammability
- · Lower and upper explosion limit
- · Lower:
- · Upper:
- · Flash point:
- Decomposition temperature:
- ∙pH

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· Viscosity:		
Kinematic viscosity	Not determined.	
Dynamic:	Not determined.	
Solubility		
water:	Not miscible or difficult to mix.	
Partition coefficient n-octanol/water (log value		
Vapour pressure:	, Not determined.	
Density and/or relative density		
Density at 20 °C:	0.858 g/cm <sup>3</sup>	
Relative density	Not determined.	
Vapour density	Not determined.	
9.2 Other information		
Appearance:		
Form:	Aerosol	
Important information on protection of healt	h	
and environment, and on safety.		
Ignition temperature:	Product is not selfigniting.	
Explosive properties:	Not determined.	
Solvent content:		
Organic solvents:	2–5 %	
VOC (EC)	21–35 %	
Change in condition		
· Evaporation rate	Not applicable.	
Information with regard to physical hazar	d	
classes		
· Explosives	Void	
Flammable gases	Void	
Aerosols		
Flammable aerosol. Pressurised container: May b	ourst if heated.	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Void	
Flammable solids	Void	
• Self-reactive substances and mixtures	Void	
	Void	
• • •	Void	
Pyrophoric solids	Void	
Pyrophoric solids Self-heating substances and mixtures		
Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit	Void Void	
Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water	Void Void Void	
Pyrophoric solids Self-heating substances and mixtures Substances and mixtures, which emit flammable gases in contact with water Oxidising liquids	Void Void Void Void	
• Pyrophoric solids • Self-heating substances and mixtures • Substances and mixtures, which emit flammable gases in contact with water • Oxidising liquids • Oxidising solids	Void Void Void Void Void	
<ul> <li>Pyrophoric solids</li> <li>Self-heating substances and mixtures</li> <li>Substances and mixtures, which emit flammable gases in contact with water</li> <li>Oxidising liquids</li> <li>Oxidising solids</li> <li>Organic peroxides</li> </ul>	Void Void Void Void Void Void	
· Oxidising liquids · Oxidising solids	Void Void Void Void Void	

# **SECTION 10: Stability and reactivity**

• 10.1 Reactivity No further relevant information available.

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- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- 10.6 Hazardous decomposition products: Carbon monoxide Aldehyde Poisonous gases/vapours Carbon dioxide

## **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 relevant for classifica	tion:
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ATE (Acute Toxicity Estimates)		
Oral	LD50	29,600–148,000 mg/kg (rat)
	LD50	29,600–148,000 mg/kg (rat) 8,000–40,000 mg/kg (rab)
Inhalative	LC50/4 h	220–1,100 mg/l

#### 106-97-8 butane, pure

Inhalative LC50/4 h 658 mg/l (rat)

 111-76-2 2-butoxyethanol

 Oral
 LD50
 1.200

Oral	LD50	1,200 mg/kg (ATE)
		1,480 mg/kg (rat)
Dermal	LD50	400 mg/kg (rab)

• Skin corrosion/irritation Based on available data, the classification criteria are not met.

- · Serious eye damage/irritation
- Causes serious eye damage.
- 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 Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard
- May be fatal if swallowed and enters airways.
- 11.2 Information on other hazards

## · Endocrine disrupting properties

None of the ingredients is listed.

# **SECTION 12: Ecological information**

· 12.1 Toxicity

• Aquatic toxicity: No further relevant information available.

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- 12.2 Persistence and degradability No further relevant information available.
- **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
- For information on endocrine disrupting properties see section 11.
- 12.7 Other adverse effects
- · Additional ecological information:

## · General notes:

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water Do not allow product to reach ground water, water course or sewage system, even in small quantities. Danger to drinking water if even extremely small quantities leak into the ground.

# **SECTION 13: Disposal considerations**

## · 13.1 Waste treatment methods

## · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

## · European waste catalogue

HP3 Flammable

HP14 Ecotoxic

## · Uncleaned packaging:

• **Recommendation:** Disposal must be made according to official regulations.

14.1 UN number or ID number		
ADR, IMDG, IATA	UN1950	
14.2 UN proper shipping name		
ADR	1950 AEROSOLS	
· IMDG, IATA	AEROSOLS	
• 14.3 Transport hazard class(es) • ADR		
Class	2 5F Gases.	
· Label	2.1	



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· IMDG, IATA	
· Class · Label	2 Gases. 2.1
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	Not applicable.
<ul> <li>14.6 Special precautions for user</li> <li>Hazard identification number (Kemler cod</li> <li>EMS Number:</li> <li>Stowage Code</li> <li>Stowage Code</li> </ul>	<ul> <li>Warning: Gases.</li> <li>f-D,S-U</li> <li>SW1 Protected from sources of heat.</li> <li>SW22 For AEROSOLS with a maximum capacity of litre: Category A. For AEROSOLS with a capacit above 1 litre: Category B. For WASTE AEROSOLS Category C, Clear of living quarters.</li> <li>SG69 For AEROSOLS with a maximum capacity of litre:</li> <li>Segregation as for class 9. Stow "separated from class 1 except for division 1.4.</li> <li>For AEROSOLS with a capacity above 1 litre:</li> <li>Segregation as for the appropriate subdivision of clas 2.</li> <li>For WASTE AEROSOLS:</li> <li>Segregation as for the appropriate subdivision of clas 2.</li> </ul>
<ul> <li>14.7 Maritime transport in bulk according IMO instruments</li> </ul>	Not applicable.
· Transport/Additional information:	
<ul> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1L Code: E0 Not permitted as Excepted Quantity
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	2 D/E
<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1L Code: E0 Not permitted as Excepted Quantity
· UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, III

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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

None of the ingredients is listed.

#### • Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

 Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

- Additional classification according to Decree on Hazardous Materials, Annex II: Carcinogenic hazardous material group III (dangerous).
- · Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

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

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

H220 Extremely flammable gas.

- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H311 Toxic in contact with skin.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.

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(Contd. of page 10) H332 Harmful if inhaled. 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. · Department issuing SDS: Product safety department. · Date of previous version: 16.01.2023 · Version number of previous version: 2303 · 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) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Gas 1A: Flammable gases – Category 1A Aerosol 2: Aerosols – Category 2 Press. Gas (Comp.): Gases under pressure – Compressed gas Flam. Liq. 3: Flammable liquids - Category 3 Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 3: Acute toxicity – Category 3 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Asp. Tox. 1: Aspiration hazard – Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard - Category 3 \* \* Data compared to the previous version altered.