

1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: MANNOL Scheiben Reiniger (-70°)

Product Use:

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Company Information: Sudheimer Car Technik Vertriebs GmbH

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2 Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/ EC

R10: Flammable.

Information concerning particular hazards for human and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

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 Warning

Hazard statements

H226 Flammable liquid and vapour. H319 Causes serious eye irritation.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P280 Wear protective gloves / eye protection.
 P233 Keep container tightly closed.
 P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 If eye irritation persists: Get medical advice/ attention.
 P370+P378 In case of fire: Use for extinction: CO₂, powder or water spray.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container in accordance with local/ regional/national/international regulations.

2.3 Other hazards
 Results of PBT and vPvB assessment
 PBT: Not applicable.
 vPvB: Not applicable.

3 Composition/information on ingredients		
3.2 Chemical characterization: Mixtures		
Description: Mixture of the substances listed below with harmless additions.		
Dangerous components:		
CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43	ethanolF  R11	50-100%
	 Flam. Liq. 2, H225;  Eye Irrit. 2, H319	
CAS: 107-21-1 EINECS: 203-473-3 Reg.nr.: 01-2119456816-28	ethane-1,2-diol  Xn R22	3-<10%
	 Acute Tox. 4, H302	
CAS: 56-81-5 EINECS: 200-289-5	glycerol substance with a Community workplace exposure	3-<10%
Regulation (EC) No 648/2004 on detergents / Labelling for contents		
anionic surfactants, colouring agent, perfumes		< 5%
Additional information For the wording of the listed risk phrases refer to section 16.		

4 First aid measures

4.1 Description of first aid measures
 After inhalation Supply fresh air; consult doctor in case of symptoms.
 After skin contact The product is not skin irritating.
 After eye contact
 Rinse opened eye for several minutes under running water.
 After swallowing Seek medical treatment.

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.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

No further relevant information available.

5.3 Advice for firefighters

Protective equipment: Wear self-contained breathing apparatus.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions: Dilute with much water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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.

7 Handling and storage

7.1 Precautions for safe handling Keep containers tightly sealed.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke. Protect against electrostatic charges.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and containers:

No special requirements.

Information about storage in one common storage facility: TRGS 510

Further information about storage conditions:

Keep container tightly sealed.

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

8 Exposure controls/personal protection

Additional information about design of technical systems:

No further data; see item 7.

8.1 Control parameters

Components with critical values that require monitoring at the workplace:

64-17-5 ethanol

WEL (Great Britain)	Long-term value: 1920 mg/m ³ , 1000 ppm
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107-21-1 ethane-1,2-diol

IOELV (European Union)	Short-term value: 104 mg/m ³ , 40 ppm
WEL (Great Britain)	Long-term value: 52 mg/m ³ , 20 ppm Skin
	Short-term value: 104** mg/m ³ , 40** ppm Long-term value: 10* 52** mg/m ³ , 20** ppm Sk *particulate **vapour

56-81-5 glycerol

WEL (Great Britain)

Long-term value: 10 mg/m³

Additional information:

The lists that were valid during the compilation were used as basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

Wash hands during breaks and at the end of the work.

Breathing equipment: Not required.

Protection of hands: Solvent resistant gloves

Material of gloves

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.7 mm

Penetration time of glove material

Value for the permeation: Level ≤ 480 min

The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

Eye protection: Tightly sealed safety glasses.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Fluid

Colour: Blue

Smell: Pleasant

pH-value: nicht anwendbar

Change in condition

Melting point/Melting range: Not determined

Boiling point/Boiling range: 78 °C

Flash point: 23 °C

Ignition temperature: 400 °C

Self-inflammability: Product is not selfigniting.

Danger of explosion: Product is not explosive. However, formation of explosive air/steam mixtures is possible.

Critical values for explosion:

Lower: 3.5 Vol %

Upper: 15.0 Vol %

Steam pressure at 20 °C: 57 hPa

Density at 20 °C: 0.925 g/cm³

Solubility in / Miscibility with

Water: Fully miscible

Solvent content:

Organic solvents: 62.5 %

Water: 37.2 %

Solids content: 0.3 %

9.2 Other information

No further relevant information available.

10 Stability and reactivity

10.1 Reactivity Stable at normal temperature and normal pressure.

10.2 Chemical stability

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: None

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values that are relevant for classification:

64-17-5 ethanol

Oral Inhalative	LD50	7060 mg/kg (rat)
	LC50/4 h	20000 mg/l (rat)

Primary irritant effect:

on the skin: No irritant effect.

on the eye: Irritant effect.

Sensitization: No sensitizing effect known.

12 Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

Other information: The product is easily biodegradable.

12.3 Bioaccumulative potential

No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC)

No.648/2004 on detergents. Data to support this assertion are held at
(Contd. of page 4)

the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

13.1 Waste treatment methods

<p>Recommendation Must not be disposed of together with household garbage. Do not allow product to reach sewage system.</p>
<p>European waste catalogue 07 01 04* other organic solvents, washing liquids and mother liquors</p>
<p>Uncleaned packagings: Recommendation: Disposal must be made according to official regulations. Recommended cleaning agent: Water, if necessary with cleaning agent.</p>

<p>14 Transport information</p> <p>14.1 UN-Number ADR UN1987</p> <p>14.2 UN proper shipping name ADR 1987 ALKOHOLE, N.A.G. (ETHANOL (ETHYLALKOHOL))</p> <p>14.3 Transport hazard class(es)  ADR Class Label 3 Flammable liquids. 3</p> <p>14.4 Packing group ADR III</p> <p>14.5 Environmental hazards: Not applicable.</p> <p>14.6 Special precautions for user Warning: Flammable liquids. Kemler Number: 30</p> <p>14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. Transport/Additional information: ADR Limited quantities (LQ) 5L Transport category 3 Tunnel restriction code D/E UN "Model Regulation": UN1987, ALCOHOLS, N.O.S. (ETHANOL (ETHYL ALCOHOL)), 3, III</p>
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<p>15 Regulatory information</p> <p>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</p> <p>National regulations Technical instructions (air): Class Share in % Wasser NK 35.7 64.0 Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water. Other regulations, limitations and prohibitive regulations BGR 190 (Regeln für den Einsatz von Atemschutzgeräten)</p>

BGR 192 (Regeln für den Einsatz von Augen- und Gesichtsschutz) BGR 195 (Regeln für den Einsatz von Schutzhandschuhen)

15.2 Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

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.

Relevant phrases

H225 Highly flammable liquid and vapour. H302 Harmful if swallowed.

H319 Causes serious eye irritation.

R11 Highly flammable.

R22 Harmful if swallowed.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

GHS: Globally Harmonized 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) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

* Data compared to the previous version altered.

The information in this document has been compiled on the basis of the best available knowledge in accordance with the legislative requirements. It does not imply that the informations is complete or accurate in allcases. It is the user's responsibility to satisfy themselves as to the application of the information and/or the recommendations given for their own use.