

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.07.2023

Version number 1

Revision: 17.07.2023

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

1.1 Product identifier

- . Trade name: **Graconol ECO**
- . 1.2 Relevant identified uses of the substance or mixture and uses advised against
 - SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites
 - . Product category PC9a Coatings and paints, thinners, paint removers
 - . Process category PROC5 Mixing or blending in batch processes
 - . Environmental release category ERC2 Formulation into mixture
 - . Application of the substance / the mixture Milling additive

1.3 Details of the supplier of the safety data sheet

- . Manufacturer/Supplier: Manufacturer
Graichen Produktions- und Vertriebs-GmbH
Darmstädter Str. 127 - 129
D-64625 Bensheim
Tel.: +49(0)6251/73103
Fax: +49(0)6251/77901
e-mail: ehs@graichen-bensheim.de
homepage: http://www.graichen.net
- . Manufacturer Graichen Produktions- und Vertriebs- GmbH
Darmstädterstraße 127-129
D-64625 Bensheim
Germany
Tel.: +49 6251 7707880
Fax: +49 6251 77901
E-Mail: ehs@graichen-bensheim.de
www.graichen.net

- . Further information obtainable from: Product Safety Department

1.4 Emergency telephone number:

Graichen: During business hours :+49(0)6251 7707880
 Graichen: Outside business hours: +49(0)172 7478476
 Poison Information Centre Mainz - 24h -
 Tel.: +49 (0) 6131 19240
 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
Skin Sens. 1 H317 May cause an allergic skin reaction.

2.2 Label elements

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



GHS07

- . Signal word Warning

- . Hazard-determining components of labelling:

Parmetol K 40

- . Hazard statements

H317 May cause an allergic skin reaction.

- . Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P272 Contaminated work clothing should not be allowed out of the workplace.
 P280 Wear protective gloves.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P321 Specific treatment (see on this label).
 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.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Dangerous components:

CAS: 56-81-5 EINECS: 200-289-5	glycerol	substance with a Community workplace exposure limit	25 – 50%
	Parmetol K 40	⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	< 2.5%

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: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Seek immediate medical advice.

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, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions.

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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Not required.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water.

6.3 Methods and material for containment and cleaning up:

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

6.4 Reference to other sections

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

No special precautions are necessary if used correctly.

Information about fire - and explosion protection:

No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

No special requirements.

Information about storage in one common storage facility:

Store away from foodstuffs.

Further information about storage conditions:

Store receptacle in a well ventilated area.

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:

CAS: 56-81-5 glycerol

WEL Long-term value: 10 mg/m³

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. DNELs	
CAS: 56-81-5 glycerol	
Inhalative	DNEL Long-term - local effects 56 mg/m ³ (Workers (Arbeitnehmer))
. PNECs	
CAS: 56-81-5 glycerol	
PNEC Soil (Boden)	0.141 mg/kg (---)
PNEC fresh water sediment (Süßwassersediment)	3.3 mg/kg (---)
PNEC fresh water (Süßwasser)	0.885 mg/l (---)
PNEC marine water sediment	0.33 mg/kg (---)
PNEC Marine water	0.0885 mg/l (---)
PNEC mikrobiological activity in waste water	1,000 mg/l (---)
. Additional information: The lists valid during the making were used as basis.	
8.2 Exposure controls	
. Appropriate engineering controls	No further data; see item 7.
. Individual protection measures, such as personal protective equipment	
. General protective and hygienic measures:	Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.
. Respiratory protection:	Not required.
. 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.
. Eye/face protection	Goggles recommended during refilling

SECTION 9: Physical and chemical properties

. 9.1 Information on basic physical and chemical properties

. General Information	
. Physical state	Fluid
. Colour:	Colourless
. Odour:	Odourless
. Odour threshold:	Not determined.
. Boiling point or initial boiling point and boiling range	290 °C (CAS: 56-81-5 glycerol)
. Flammability	Not applicable.
. Flash point:	160 °C (CAS: 56-81-5 glycerol)
. Ignition temperature:	400 °C (CAS: 56-81-5 glycerol)
. Decomposition temperature:	Not determined.
. pH	Not determined.
. Viscosity:	
. Dynamic:	Not determined.
. Solubility	
. water:	Fully miscible.
. Partition coefficient n-octanol/water (log value)	Not determined.
. Vapour pressure at 20 °C:	< 0.1 hPa (CAS: 56-81-5 glycerol)
. Density and/or relative density	
. Density at 20 °C:	1.2508 g/cm ³
. Relative density	Not determined.
. Vapour density	Not determined.

. 9.2 Other information

. Appearance:	
. Form:	Fluid
. Important information on protection of health and environment, and on safety.	
. Auto-ignition temperature:	Product is not selfigniting.
. Explosive properties:	Not determined.
. Solvent content:	
. Organic solvents:	49.0 %

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. VOC (EU) (%)	
. Solids content:	4.0 %
. Change in condition	
. Evaporation rate	Not determined.

. Information with regard to physical hazard classes	
. Explosives	Void
. Flammable gases	Void
. Aerosols	Void
. 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:	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:	Hazardous thermal decomposition products may include: Formaldehyde, Carbon dioxide, Carbon monoxide, Methanol

SECTION 11: Toxicological information

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

. Acute toxicity

. LD/LC50 values relevant for classification:

CAS: 56-81-5 glycerol

Oral LD50 12,600 mg/kg (rat)

Dermal LD50 > 10,000 mg/kg (rabbit)

. Respiratory or skin sensitisation May cause an allergic skin reaction.

. 11.2 Information on other hazards

. Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

. 12.1 Toxicity

. Aquatic toxicity:

CAS: 56-81-5 glycerol

LC50 (24h) > 5,000 mg/l (Carassius auratus)

IC50 (16h) > 10,000 mg/l (scenedesmus quadricauda)

. 12.2 Persistence and degradability

CAS: 56-81-5 glycerol

CSB (chem. Sauerstoffbedarf) 95 mg/l (---)

theor. O2 consumption (theor. Sauerstoffverbrauch) 1.217 g/g (---)

Biodegradability 14d 63 % (---) (Ready Biodegradability)

. 12.3 Bioaccumulative potential

CAS: 56-81-5 glycerol

Log Pow ≤ 4 (---)

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- . **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 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations

- . **13.1 Waste treatment methods**
- . Uncleaned packaging:
- . Recommendation: Non contaminated packagings may be treated like household garbage.
- . Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information

- | | | |
|---|----------------------|-----------------|
| . 14.1 UN number or ID number | ADR, ADN, IMDG, IATA | Void |
| . 14.2 UN proper shipping name | ADR, ADN, IMDG, IATA | Void |
| . 14.3 Transport hazard class(es) | ADR, ADN, IMDG, IATA | Void |
| . Class | | Void |
| . 14.4 Packing group | ADR, IMDG, IATA | Void |
| . 14.5 Environmental hazards: | | Not applicable. |
| . 14.6 Special precautions for user | | Not applicable. |
| . 14.7 Maritime transport in bulk according to IMO instruments | | Not applicable. |
| . UN "Model Regulation": | | Void |

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
- . **15.2 Chemical safety assessment:** None of the ingredients is listed.
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.

- . Department issuing SDS: Environment protection department.
- . 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 (UK REACH)
PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1