

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended with
2020/878/EU

Printing date 12.02.2024

Version number 1

Revision: 12.02.2024

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

1.1 Product identifier

Trade name:

GRACONOL PLUS

1.2 Relevant identified uses of the substance or mixture and uses advised against

- . Sector of Use 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 coolant

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

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
Advice centre for poisoning in Mainz Tel: +49(0)6131/19240 Poison information:+49(0)700/GIFTINFO
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 The product is not classified, according to the GB CLP regulation.

2.2 Label elements

- . Labelling according to Regulation (EC) No 1272/2008 Void
- . Hazard pictograms Void
- . Signal word Void
- . Hazard statements Void
- . Additional information: EUH210 Safety data sheet available on request.

2.3 Other hazards

- . Results of PBT and vPvB assessment
- . PBT: Not applicable.
- . vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Dangerous components:

CAS: 64-17-5	ethanol	⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319	2.5 – 10%
EINECS: 200-578-6			

- . 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: Seek immediate medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

(Contd. on page 2)

GB

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended with
2020/878/EU

Printing date 12.02.2024

Version number 1

Revision: 12.02.2024

Trade name: GRACONOL PLUS

(Contd. of page 1)

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.

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).

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: 64-17-5 ethanol

WEL Long-term value: 1920 mg/m³, 1000 ppm

DNELs

CAS: 64-17-5 ethanol

Oral	DNEL Long-term - systemic effects	87 mg/kg bw/day (general (Allgemeinbevölkerung))
Dermal	DNEL Long-term - systemic effects	206 mg/kg bw/day (general (Allgemeinbevölkerung)) 343 mg/kg bw/day (Workers (Arbeitnehmer))
Inhalative	DNEL Acute - local effects	950 mg/m ³ (general (Allgemeinbevölkerung)) 1,900 mg/m ³ (Workers (Arbeitnehmer))
	DNEL Long-term - systemic effects	114 mg/m ³ (general (Allgemeinbevölkerung)) 950 mg/m ³ (Workers (Arbeitnehmer))

PNECs

CAS: 64-17-5 ethanol

PNEC Soil (Boden)	0.63 mg/kg
PNEC fresh water sediment (Süßwassersediment)	3.6 mg/kg
PNEC fresh water (Süßwasser)	0.96 mg/l

(Contd. on page 3)

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended with
2020/878/EU

Printing date 12.02.2024

Version number 1

Revision: 12.02.2024

Trade name: GRACONOL PLUS

(Contd. of page 2)

PNEC marine water sediment	2.9 mg/kg
PNEC Marine water	0.79 mg/l
PNEC-STP	580 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 section 7.

. Individual protection measures, such as personal protective equipment

. General protective and hygienic measures:

Wash hands before breaks and at the end of work.

. Respiratory protection: Not required.

. Hand protection

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:

Clear

. Odour:

Odourless

. Odour threshold:

Not determined.

. Melting point/freezing point:

-50 °C

. Boiling point or initial boiling point and boiling range

192 °C

. Flammability

The product is not self-igniting.

The product is not explosive, but the formation of explosive vapour/air formation of explosive vapour/air mixtures is possible at temperatures above 80 °C.

. Lower and upper explosion limit

. Lower:

3.5 Vol % (Setaflash ASTM D3828)

< 5% ethanol in Graconol Plus resulted in a flash point of 80°C when measured, i.e. 5% ethanol only develops the necessary concentration of flammable vapours of 3.5% (= LEL) for ignition at 80°C.

27.7 Vol % (Setaflash ASTM D3828)

. Upper:

. Flash point:

80 °C

. Auto-ignition temperature:

390 °C

. Decomposition temperature:

Not determined.

. pH at 20 °C

7

. Viscosity:

. Kinematic viscosity at 20 °C

10 s (DIN 53211/4)

. Dynamic:

Not determined.

. Solubility

. water:

Fully miscible.

. Partition coefficient n-octanol/water (log value)

Not determined.

. Vapour pressure at 25 °C:

143 hPa

. Density and/or relative density

. Density at 20 °C:

1.0494 g/cm³

. Relative density

Not determined.

. Vapour density

Not determined.

. 9.2 Other information

. Appearance:

. Form:

Liquid

(Contd. on page 4)

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended with
2020/878/EU

Printing date 12.02.2024

Version number 1

Revision: 12.02.2024

Trade name: GRACONOL PLUS

(Contd. of page 3)

. Important information on protection of health and environment, and on safety.	
. Ignition temperature:	>350°C
. Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures above 80°C temperature are possible.
. Solvent content:	
. Organic solvents:	5.0 %
. VOC (EU) (%)	100 %
. Solids content:	0.0 %
. Molecular weight	132,16 g/mol
. 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	Based on available data, the classification criteria are not met.
. Skin corrosion/irritation	Based on available data, the classification criteria are not met.
. Serious eye damage/irritation	Based on available data, the classification criteria are not met.
. 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	Based on available data, the classification criteria are not met.
. 11.2 Information on other hazards	

. Endocrine disrupting properties
None of the ingredients is listed.

(Contd. on page 5)

GB

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended with
2020/878/EU

Printing date 12.02.2024

Version number 1

Revision: 12.02.2024

Trade name: GRACONOL PLUS

(Contd. of page 4)

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

CAS: 64-17-5 ethanol

EC50	5,800 mg/l (Paramecium caudatum)
EC50 (24h)	858 mg/l (Artemia salina)
EC50 (7d)	> 5,000 mg/l (Algae) (Freshwater Alga and Cyanobacteria, Growth Inhibiti)
EC50 (48h)	9,268 – 14,221 mg/l (daphnia magna/gr. Wasserfloh) (Daphnia sp. Acute Immobilisation Test)
EC50 (72h)	275 mg/l (Chlorella vulgaris) (Freshwater Alga and Cyanobacteria, Growth Inhibiti)
LC50 (24h)	11,200 mg/l (Salmo gairdneri)
LC50 (48h)	5,012 mg/l (Ceriodaphnia dubia (Wasserfloh))
LC50 (96h)	13,000 mg/l (Oncorhynchus mykiss) (Fish, Acute Toxicity Test)
	14,200 mg/l (Pimephales promelas (fettköpf. Ellritze))
NOEC (10d)	2 mg/l (Daphnie)

12.2 Persistence and degradability

CAS: 64-17-5 ethanol

Biodegradability	80 – 85 % (aerob) (Biodegradability)
Biodegradability 28d	97 % (Ready Biodegradability)

12.3 Bioaccumulative potential

CAS: 64-17-5 ethanol

Log Pow	
Log Kow	
BCF	0.66

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

Ecotoxicological effects:

CAS: 64-17-5 ethanol

EC10 (72h)	11.5 mg/l (Paramecium caudatum) (Freshwater Alga and Cyanobacteria, Growth Inhibiti)
------------	--

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	
Class	Void

(Contd. on page 6)

GB

Safety data sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended with
2020/878/EU

Printing date 12.02.2024

Version number 1

Revision: 12.02.2024

Trade name: GRACONOL PLUS

(Contd. of page 5)

. 14.4 Packing group	Void
. ADR, IMDG, IATA	
. 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

. Poisons Act

. Regulated explosives precursors

None of the ingredients is listed.

. Regulated poisons

None of the ingredients is listed.

. Reportable explosives precursors

None of the ingredients is listed.

. Reportable poisons

None of the ingredients is listed.

. Directive 2012/18/EU

. Named dangerous substances - ANNEX I

None of the ingredients is listed.

. **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.

. 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 2: Flammable liquids – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

. * Data compared to the previous version altered.