

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

Printing date 13.02.2023

V 6 (replaces version 5)

Revision: 13.02.2023

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

1.1 Product identifier

Trade name: **Antifreeze**

Article number: 1400101

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

1.2.1 Relevant identified uses

Application of the substance / the mixture antifreeze

1.2.2 Uses advised against Applications not listed above are not recommended as they are considered unidentified.

1.3 Details of the supplier of the safety data sheet

Manufacturer:

protigo GmbH
Schlosserstr. 15
42899 Remscheid
Germany
Phone +49 (0) 21 91 / 94 44 - 0
Fax +49 (0) 21 91 / 94 44 60
E-Mail: msds@protigo.de
www.protigo.de

Informing department:

Technical Customer Service / Regulatory Affairs
msds@protigo.de

1.4 Emergency telephone number:

Tel. +49 2191 - 94 44 0 (during business hours)
Tel. +49 162 - 2199995 (outside business hours)

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

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

Description: Mixture of the substances listed below with harmless additions.

Dangerous components:

CAS: 57-55-6 EINECS: 200-338-0 Reg.nr.: 01-2119456809-23	Propylene glycol	substance with a Community workplace exposure limit	50-100%
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Additional information

Products with EC-Limit-Values are named under section 8.

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

Personal protection for the First Aider.

Take affected persons into the open air.

No special measures required.

After inhalation Seek medical treatment in case of complaints.

After skin contact

The product is due to our experience not skin irritating.

Nevertheless we recommend to avoid skin contact with the concentrated product.

After skin contact rinse with water and use skin lotion.

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.

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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 fires with water jet.

5.2 Special hazards arising from the substance or mixture

Can be released in case of fire

Carbon monoxide (CO)

Nitrogen oxides (NO_x)

5.3 Advice for firefighters

Protective equipment: In case of fire harmful vapors may be produced. - Wear respiratory protective device.

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Particular danger of slipping on leaked/spilled product.

6.2 Environmental precautions: If leakage can no longer be prevented, dilute with plenty of water.

6.3 Methods and material for containment and cleaning up:

Send for recovery or disposal in suitable containers.

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

6.4 Reference to other sections

No dangerous materials are released.

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Store in cool, dry place in tightly closed containers.

Information about protection against explosions and fires: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage No special treatment required.

Requirements to be met by storerooms and containers: No special requirements.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from oxidising agents.

Further information about storage conditions: None.

Storage class 10

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:

57-55-6 Propylene glycol

WEL Long-term value: 474* 10** mg/m³, 150* ppm

*total vapour and particulates **particulates

DNELs

57-55-6 Propylene glycol

Oral	long-term exposure - systemic effects	85 mg/kg bw/day (consumer)
Dermal	long-term exposure - systemic effects	213 mg/kg bw/day (consumer)
Inhalative	long-term exposure - systemic effects	168 mg/m ³ (worker)
		50 mg/m ³ (consumer)
	long-term exposure - local effects	10 mg/m ³ (worker)
		10 mg/m ³ (consumer)

PNECs

57-55-6 Propylene glycol

freshwater	260 mg/l
marine water	26 mg/l
intermittent release	183 mg/l
sediment (freshwater)	572 mg/kg
STP	20,000 mg/l (-)
soil	50 mg/kg

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sediment (marine water)	57.2 mg/kg
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Additional information: The lists that were valid during the compilation 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 Do not eat or drink while working.

Breathing equipment: Only during spraying without adequate removal by suction.

Hand protection

Synthetic gloves

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

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

Material of gloves Rubber gloves

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.

Not suitable are gloves made of the following materials: Leather gloves

Eye/face protection Safety glasses recommended.

Body protection: Protective work clothing.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state

Fluid

Colour:

Colourless

Odour:

Mild

Odour threshold:

Not determined.

Melting point/freezing point:

<-20 °C

Boiling point or initial boiling point and boiling range

185 °C

Flammability

Not applicable.

Lower and upper explosion limit

Lower:

2.6 Vol %

Upper:

12.5 Vol %

Flash point:

104 °C (PM)

Ignition temperature:

421 °C

Decomposition temperature:

Not determined.

pH at 20 °C

7-9

Viscosity:

Kinematic viscosity

Not determined.

dynamic:

Not determined.

Solubility

Water:

Fully miscible

Partition coefficient n-octanol/water (log value)

Not determined.

Vapour pressure at 25 °C:

20 hPa

Density and/or relative density

Density at 20 °C

1.04 g/cm³

Relative density

Not determined.

Vapour density

Not determined.

9.2 Other information

Appearance:

Form:

Fluid

Self-inflammability:

Product is not selfigniting.

Explosive properties:

Product is not explosive.

Molecular weight

76.1 g/mol

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

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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 stored, handled and used as directed.
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: No dangerous decomposition products known

* 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:

Contains no relevant quantities of dangerous substances.

57-55-6 Propylene glycol

Oral	LD50	>22,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)

Skin corrosion/irritation

Although no irritating effects are known, we recommend to avoid unprotected skin-contact.
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.

* SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

57-55-6 Propylene glycol

LC50/96 h	40,613 mg/l (Oncorhynchus mykiss / rainbow trout)
EC50/48h	>100 mg/l (Daphnia Magna)
EC50/72h	24,200 mg/l (Selenastrum capricornutum)

12.2 Persistence and degradability

biodegradable

57-55-6 Propylene glycol

OECD 301 A (Die-Away Test)	>70 % / 28 days
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Degree of elimination: The whole product is biodegradable to over 70 % (OECD-301-B).

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

Behaviour in sewage processing plants:

After parting of the carried oils, the produkt does not disturb the activated sludge of an biol. sewage plant.

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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 bodies or sewage system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

Uncleaned packagings:

Recommendation:

Packaging can be reused or recycled after cleaning.

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

Recommended cleaning agent: Clean with water

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

14.4 Packing group

ADR, IMDG, IATA Void

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user Not applicable.

14.7 Maritime transport in bulk according to IMO instruments Not applicable.

Transport/Additional information: Not dangerous according to the above specifications.

UN "Model Regulation": Void

SECTION 15: Regulatory information

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

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

National regulations

Decree to be applied in case of technical fault:

Class	Share in %
III	2.5-10
NK	50-100

Suisse VOC-Content: 95.75 %

Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

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.

Department issuing data specification sheet: Technical Customer Service / Regulatory Affairs

Contact: Mr. Dr. P. Limberg

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

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