

According to Regulation (EC) No 1907/2006

TRIGOMAT® BRILLANT

Version number: 5.1
Issued: 2025-12-16
Replaces SDS: 2022-01-20



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

1.1. Product identifier

Trade name

TRIGOMAT® BRILLANT

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

Relevant identified uses

Long-lasting coating for professional users.

Not suitable for use in

All other uses are discouraged.

1.3. Details of the supplier of the safety data sheet

Supplier

KLEEN PURGATIS GmbH

Address

Dieselstraße 10
32120 Hiddenhausen
Germany

Telephone

+49 (0) 5223 9970-40

Email

info@kleen-purgatis.de

Web site

www.kleenpurgatis.de

Contact person

Regulatory Affairs

Email

info@kleen-purgatis.de

1.4. Emergency telephone number

+49 (0)551 - 19240 (GIZ-Nord)

Available outside office hours

Yes

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The product is not classified as hazardous according to Regulation (EC) No 1272/2008.

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2.2. Label elements

Supplemental hazard statements

EUH208 Contains 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

2.3. Other hazards

No data available

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Specific concentration limits ATE	Note
Aqueous acrylat-copolymer dispersion (40%)	- - - -	20 - 40%	-	- - -		-
Tris(2-butoxyethyl) phosphate	78-51-3 201-122-9 01-2119485835-23-xxxx -	1 - 5%	-	- - -		-
2-(2-ethoxyethoxy) ethanol	111-90-0 203-919-7 01-2119475105-42-xxxx -	1 - 5%	-	- - -		-
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 01-2120761540-60-xxxx 613-088-00-6	0.003 - <0.01%	Acute Tox. 4 - oral, Skin Irrit. 2, Skin Sens. 1, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1	H302, H315, H317, H318, H400, H410 M-acut=1 M-chro=1	Skin Sens. 1A, H317: C ≥ 0.036% ATE [Oral]: 454 mg/kg bw	-

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Description of first aid measures

First responders: Pay attention to self-protection.

Inhalation

Take the victim into fresh air.

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Skin contact

Wash off with soap and water.

Eye contact

In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician if necessary.

Ingestion

Clean mouth with water and drink afterwards plenty of water. Consult a physician if necessary.

Information for doctors

Show this safety data sheet to the doctor in attendance.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation

Not applicable.

Skin contact

May cause skin irritation.

Eye contact

May cause eye irritation.

Ingestion

May cause throat irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

The product is not flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

None known.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Not required.

Measures in case of fire

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No special precautions required.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Dilute with plenty of water.

6.3. Methods and material for containment and cleaning up

Soak up with absorbent material (e.g. sand, silica gel, sawdust...). Ventilate the area.

6.4. Reference to other sections

For information on storage and handling see section 7.

For information on exposure and personal protective equipment, see Section 8.

For information on incompatible materials, see Section 10.

For information on disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

No special precautions required.

General hygiene

Wash hands after handling.

When using, do not eat, drink or smoke.

The usual precautionary measures when handling chemicals must be observed.

7.2. Conditions for safe storage, including any incompatibilities

Store in original container. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Keep away from food, drink and animal feeding stuffs.

Store in a place accessible by authorized persons only.

Storage class according to TRGS 510: 12 (non-flammable liquids)

Storage temperature: 10 °C to 40 °C

Protect from frost.

7.3. Specific end use(s)

GISCODE: GE10

See section 1.2: Long-lasting coating

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL

Product/Substance name (CAS No./EC No.)	Type	Exposure	Value	Population	Effects
Tris(2-butoxyethyl) phosphate (78-51-3/201-122-9)	DNEL	Chronic (long term) Oral	0.25 mg/kg	Consumers	Systemic
Tris(2-butoxyethyl) phosphate (78-51-3/201-122-9)	DNEL	Chronic (long term) Dermal	14 mg/kg	Workers	Systemic
Tris(2-butoxyethyl) phosphate (78-51-3/201-122-9)	DNEL	Chronic (long term) Inhalation	3.5 mg/m ³	Workers	Systemic
2-(2-ethoxyethoxy)ethanol (111-90-0/203-919-7)	DNEL	Chronic (long term) Inhalation	61 mg/m ³	Workers	Systemic
2-(2-ethoxyethoxy)ethanol (111-90-0/203-919-7)	DNEL	Chronic (long term) Dermal	83 mg/kg	Workers	Systemic
2-(2-ethoxyethoxy)ethanol (111-90-0/203-919-7)	DNEL	Chronic (long term) Inhalation	30 mg/m ³	Workers	Local
1,2-benzisothiazol-3(2H)-one (2634-33-5/220-120-9)	DNEL	Chronic (long term) Inhalation	6.81 mg/m ³	Workers	Systemic
1,2-benzisothiazol-3(2H)-one (2634-33-5/220-120-9)	DNEL	Chronic (long term) Dermal	966 µg/kg bw/day	Workers	Systemic

PNEC/PEC

Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
Tris(2-butoxyethyl) phosphate (78-51-3/201-122-9)	PNEC	Freshwater	0.024 mg/l
Tris(2-butoxyethyl) phosphate (78-51-3/201-122-9)	PNEC	Sewage Treatment Plant	8.96 mg/l
Tris(2-butoxyethyl) phosphate (78-51-3/201-122-9)	PNEC	Sediment (freshwater)	0.804 mg/kg
Tris(2-butoxyethyl) phosphate (78-51-3/201-122-9)	PNEC	Soil	0.166 mg/kg
2-(2-ethoxyethoxy)ethanol (111-90-0/203-919-7)	PNEC	Freshwater	1.98 mg/l
2-(2-ethoxyethoxy)ethanol (111-90-0/203-919-7)	PNEC	Marine water	0.198 mg/l
2-(2-ethoxyethoxy)ethanol (111-90-0/203-919-7)	PNEC	Sewage Treatment Plant	500 mg/l

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Product/Substance name (CAS No./EC No.)	Type	Environmental compartment	Value
2-(2-ethoxyethoxy)ethanol (111-90-0/203-919-7)	PNEC	Sediment (freshwater)	7.32 mg/kg
2-(2-ethoxyethoxy)ethanol (111-90-0/203-919-7)	PNEC	Sediment (marine water)	0.732 mg/kg
2-(2-ethoxyethoxy)ethanol (111-90-0/203-919-7)	PNEC	Soil	0.34 mg/kg
1,2-benzisothiazol-3(2H)-one (2634-33-5/220-120-9)	PNEC	Freshwater	4.03 µg/l
1,2-benzisothiazol-3(2H)-one (2634-33-5/220-120-9)	PNEC	Marine water	403 ng/L
1,2-benzisothiazol-3(2H)-one (2634-33-5/220-120-9)	PNEC	Sewage Treatment Plant	1.03 mg/l
1,2-benzisothiazol-3(2H)-one (2634-33-5/220-120-9)	PNEC	Sediment (freshwater)	49.9 µg/kg sediment dw
1,2-benzisothiazol-3(2H)-one (2634-33-5/220-120-9)	PNEC	Sediment (marine water)	4.99 µg/kg sediment dw
1,2-benzisothiazol-3(2H)-one (2634-33-5/220-120-9)	PNEC	Soil	3 mg/kg soil dry weight

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Eye / face protection

Not required.

Hand protection

Recommended preventive skin protection :

Wear chemical-resistant disposable protective gloves according to EN 374.

Other skin protection

This type of personal protective equipment is not necessary under normal and foreseeable use of the product.

Respiratory protection

This type of personal protective equipment is not necessary under normal and foreseeable use of the product.

Thermal hazards

Not applicable

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Environmental exposure controls

No special environmental precautions required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Liquid

Colour

white

Odour

Fresh scent

Odour threshold

Not determined for the mixture.

Melting point / freezing point

Not determined for the mixture.

Boiling point or initial boiling point and boiling range

Not determined for the mixture.

Flammability

Not applicable.

Lower and upper explosion limit

The product / mixture has no explosive properties.

Flash point

> 65 °C

Auto-ignition temperature

Not applicable.

Decomposition temperature

Not determined for the mixture.

pH

8.8

Kinematic viscosity

Not determined for the mixture.

Viscosity, dynamic

Not determined for the mixture.

Solubility

No data available

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Water solubility

Miscible

Partition coefficient n-octanol/water

Not determined for the mixture.

Vapour pressure

Not determined for the mixture.

Density and/or relative density

1.024 g/cm³

Relative vapour density

Not determined for the mixture.

Evaporation Rate

Not determined for the mixture.

Explosive properties

The product / mixture has no explosive properties.

Oxidising properties

The product / mixture has no oxidizing properties.

Particle characteristics

This product / mixture does not contain any nanomaterials or nanoforms as defined in Regulation (EC) 1907/2006.

9.2. Other information

No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable at normal conditions

10.2. Chemical stability

The product is chemically stable.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

Protect from frost, heat and sunlight.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

For information on combustion products, see Section 5.

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SECTION 11: Toxicological information

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

Toxicology data for the components

Acute toxicity

Based on the available data, the classification criteria are not met.

Product / Sub- stance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Method / Guideline
Tris(2-butoxyethyl) phosphate 78-51-3 / 201-122-9	LD50	>2.000 mg/kg	Oral	rat	-
Aqueous acrylat- copolymer disper- sion (40%) /	LD50	>2.000 mg/kg	Oral	rat	-
2-(2-ethoxy ethoxy)ethanol 111-90-0 / 203-919-7	LD50	6.031 mg/kg	Oral	mouse	OECD 401
2-(2-ethoxy ethoxy)ethanol 111-90-0 / 203-919-7	LD50	9.143 mg/kg	Dermal	rabbit	OECD 402
1,2-benzisothiazol- 3(2H)-one 2634-33-5 / 220-120-9	LD50	454 mg/kg	Oral	rat	-

Skin corrosion/irritation

Based on the available data, the classification criteria are not met.

Serious eye damage/irritation

Based on the available data, the classification criteria are not met.

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on the available data, the classification criteria are not met.

Reproductive toxicity

Based on the available data, the classification criteria are not met.

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STOT-single exposure

Based on the available data, the classification criteria are not met.

STOT-repeated exposure

Based on the available data, the classification criteria are not met.

Aspiration hazard

Based on the available data, the classification criteria are not met.

11.2. Information on other hazards

Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties in terms of regulations (EC) 1907/2006 and (EU) 2018/605 and the delegated regulation (EU) 2017/2100.

SECTION 12: Ecological information

12.1. Toxicity

Acute fish toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Tris(2-butoxyethyl) phosphate 78-51-3 / 201-122-9	LC50	24 mg/l	96h	Rainbow trout	-
Aqueous acrylat- copolymer disper- sion (40%) /	LC50	>500 mg/l	48h	Golden orfe	-
2-(2-ethoxy ethoxy)ethanol 111-90-0 / 203-919-7	LC50	6.010 mg/l	96h	Ictalurus catus (catfish)	OECD 203
1,2-benzisothiazol- 3(2H)-one 2634-33-5 / 220-120-9	LC50	0,74 mg/l	96h	Fisch	-

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Acute algae toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
2-(2-ethoxy ethoxy)ethanol 111-90-0 / 203-919-7	EC50	>100 mg/l	96h	Pseudokirchneriella subcapitata	OECD 201

Acute crustacean toxicity

Product / Sub- stance name CAS / EC no.	Measurement type	Value / Result	Duration of exposure	Species	Method / Guideline
Tris(2-butoxyethyl) phosphate 78-51-3 / 201-122-9	EC50	53 mg/l	48h	Daphnia magna (Water flea)	-
2-(2-ethoxy ethoxy)ethanol 111-90-0 / 203-919-7	LC50	1,982 mg/l	48h	Daphnia magna (Water flea)	OECD 202
1,2-benzisothiazol- 3(2H)-one 2634-33-5 / 220-120-9	EC50	2,44 mg/l	48h	Daphnia magna (Water flea)	-

12.2. Persistence and degradability

The surfactants contained in this mixture / product meet the requirements for biodegradability in accordance with Regulation (EC) No. 648/2004 on detergents.

12.3. Bioaccumulative potential

Not available

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

This mixture does not contain any substances that are classified as PBT or vPvB according to Article 57 / Annex XIII of the REACH regulation.

12.6. Endocrine disrupting properties

The mixture / product does not contain any ingredients with endocrine disrupting properties in terms of regulations (EC) 1907/2006 and (EU) 2018/605 and the delegated regulation (EU) 2017/2100.

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12.7. Other adverse effects

This product / mixture does not contain any substances within the meaning of Regulation (EC) No. 1005/2009 that deplete the ozone layer.

Other

German Water Class

WGK1 - slightly water endangering

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Waste disposal in accordance with applicable local/regional/national/international regulations

Packaging

Do not re-use empty containers. Empty containers should be taken for local recycling, recovery or waste disposal.

Contaminated packaging : Dispose of as unused product.

Waste code	Waste description
07 02 99	wastes not otherwise specified

Please note - an asterisk (*) next to a code denotes that it is HAZARDOUS WASTE.

SECTION 14: Transport information

14.1. UN number

No dangerous goods in the sense of the transport regulations

14.2. UN proper shipping name

ADR / RID / ADN proper shipping name

No dangerous goods in the sense of the transport regulations

14.3. Transport hazard class(es)

Label

Not classified as dangerous in the meaning of transport regulations.

14.4. Packing group

Not classified as dangerous in the meaning of transport regulations.

14.5. Environmental hazards

Environmental hazards

Not classified as dangerous in the meaning of transport regulations.

14.6. Special precautions for user

Special precautions for user

The usual precautionary measures when handling chemicals must be observed.

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14.7. Maritime transport in bulk according to IMO instruments

Not classified as dangerous in the meaning of transport regulations.

Other

Not applicable

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No. 648/2004 (detergents)

Ingredients according to Annex VII:

< 5 % anionic surfactants, contains preservation agents, BENZISOTHIAZOLINONE, perfumes.

Regulation (EC) No. 1272/2008 (CLP)

EU Regulation (EC) No. 1907/2006 (REACH)

Substances subject to authorization according to Annex XIV: not applicable

Substance restrictions according to Annex XVII: not applicable

Substances on the REACH candidate list (SVHC): not applicable

Regulation (EU) No. 528/2012 (BPR)

Active ingredients: not applicable

Regulation (EU) 2019/1148 (explosives)

Restricted raw material according to Annex I: not applicable

Notifiable raw materials according to Annex II: not applicable

Directive 2011/65 / EU (ROHS 2)

Substance restrictions according to Annex II: not applicable

Regulation (EU) 2019/1021 (POP)

Persistent organic pollutants: not applicable

Directive 2012/18/EU (Seveso III)

Seveso hazard category: not applicable

National regulations

In addition, comply with all national and local regulations for the handling of chemicals.

Other regulations, limitations and legal regulations

Take note of Dir 94/33/EC on the protection of young people at work.

15.2. Chemical safety assessment

The mixture has not been subjected to a safety assessment.

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SECTION 16: Other information

Changes to previous revision

Section 2. Hazards identification EUH208

Section 3. Composition/information on ingredients

Abbreviations

ADN - European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR - The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE - Acute Toxicity Estimate

BCF - Bioconcentration Factor

CAS - Chemical Abstracts Service

CE - Conformité Européenne (European conformity)

CLP - Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level

EINECS - European Inventory of Existing Commercial chemical Substances

ES - Exposure Scenario

EUH statement - CLP-specific Hazard statement

EuPCS - European Product Categorisation System

EWG - European Waste Catalogue

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

GWP - Global warming potential

IARC - International Agency for Research on Cancer (IARC)

IATA - International Air Transport Association

IBC - Intermediate Bulk Container

IMDG - International Maritime Dangerous Goods

LogPow - logarithm of the octanol/water partition coefficient

MARPOL - International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" - marine pollution)

OECD - Organisation for Economic Co-operation and Development

PBT - Persistent, Bioaccumulative and Toxic

PNEC - Predicted No Effect Concentration

RID - The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN - REACH Registration Number

SCL - A specific concentration limit

STOT-RE - Specific Target Organ Toxicity - Repeated Exposure

STOT-SE - Specific Target Organ Toxicity - Single Exposure

SVHC - Substances of Very High Concern

TWA - Time weighted average

UN - United Nations

UVBC - Unknown or variable composition, complex reaction products or of biological materials

VOC - Volatile Organic Compound

vPvB - Very Persistent and Very Bioaccumulative

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References to key literature and data sources

REACH registration dossiers
ECHA C&L - Inventory
Safety data sheets from raw material suppliers

Evaluation methods for classification

Classification for mixtures and used evaluation method according to Article 9 of regulation (EC) 1272/2008 [CLP]:
Health hazards: calculation method

Phrase meaning

Acute Tox. 4 - oral - Acute toxicity, oral, hazard category 4
Skin Irrit. 2 - Skin irritation, hazard category 2
Skin Sens. 1 - Skin sensitisation, hazard category 1
Eye Dam. 1 - Serious eye damage, hazard category 1
Aquatic Acute 1 - Hazardous to the aquatic environment — Acute hazard category 1
Aquatic Chronic 1 - Hazardous to the aquatic environment — Chronic hazard category 1
H302 Harmful if swallowed.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
EUH208 Contains 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

Additional information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878.

Manufacturer's notes

Legal disclaimer: The above information is believed to be correct. This company shall not be held liable for any damage resulting from handling or from contact with the above product.