

# Trigomat Brillant

Version number: 5  
Issued: 2022-01-20  
Replaces SDS: 2017-11-09



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

### 1.1. Product identifier

**Trade name**

Trigomat Brillant

**UFI code**

RCHV-UUY7-6G1F-2PRT

### 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

Street address

Dieselstraße 10  
32120 Hiddenhausen  
Germany

Telephone

+49 (0) 5223 9970-40

Email

info@kleen-purgatis.de

Fax

+49 (0) 5223 9970-195

Web site

www.kleenpurgatis.de

**Contact person**

Regulatory Affairs

**Email address**

info@budich.de

### 1.4. Emergency telephone number

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

**Available outside office hours**

Yes

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## 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.

### 2.2. Label elements

The product does not require labelling in accordance with CLP Regulation (EC) No 1272/2008.

### 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	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%	-	- - -	-

### **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.

#### **Skin contact**

Wash off with soap and water.

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## **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.

## **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**

Prevent fire extinguishing water from contaminating surface water or the ground water system.

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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 inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, 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.  
Handle in accordance with good industrial hygiene and safety practice.

### 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 <sup>3</sup>	Workers	Systemic
2-(2-ethoxyethoxy)ethanol (111-90-0/203-919-7)	DNEL	Chronic (long term) Inhalation	61 mg/m <sup>3</sup>	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 <sup>3</sup>	Workers	Local

#### 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
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

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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	Soil	0.34 mg/kg

## 8.2. Exposure controls

### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

### Eye / face protection

Not required under normal use

### 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

### 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.

According to Regulation (EC) No 1907/2006

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## **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

## **Water solubility**

completely 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/cm<sup>3</sup>

## **Relative vapour density**

Not determined for the mixture.

## **Evaporation Rate**

Not determined for the mixture.

## **Explosive properties**

The product / mixture has no explosive properties.

According to Regulation (EC) No 1907/2006

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## 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.

## 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 / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Method / Guideline
2-(2-ethoxyethoxy) ethanol 111-90-0 / 203-919-7	LD50	6.031 mg/kg	Oral	mouse	OECD 401



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Product / Substance name CAS / EC no.	Dose descriptor	Value / Dose	Exposure route	Test animals	Method / Guideline
2-(2-ethoxyethoxy) ethanol 111-90-0 / 203-919-7	LD50	9.143 mg/kg	Dermal	rabbit	OECD 402
Tris(2-butoxyethyl) phosphate 78-51-3 / 201-122-9	LD50	>2.000 mg/kg	Oral	rat	-
Aqueous acrylat-copolymer dispersion (40%) /	LD50	>2.000 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.

**Germ cell mutagenicity**

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

**Mutagenicity**

Based on the 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.

**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.

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## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute fish toxicity

Product / Substance 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 dispersion (40%) /	LC50	>500 mg/l	48h	Golden orfe	-
2-(2-ethoxyethoxy) ethanol 111-90-0 / 203-919-7	LC50	6.010 mg/l	96h	Ictalurus catus (catfish)	OECD 203

#### Acute algae toxicity

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

#### Acute crustacean toxicity

Product / Substance 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-ethoxyethoxy) ethanol 111-90-0 / 203-919-7	LC50	1,982 mg/l	48h	Daphnia magna (Water flea)	OECD 202

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## 12.2. Persistence and degradability

### 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

### Bioaccumulative potential

Not available

## 12.4. Mobility in soil

### Mobility

Not available

## 12.5. 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.

## 12.7. Other adverse effects

### 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.

## 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	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

Not classified as dangerous in the meaning of transport regulations.

According to Regulation (EC) No 1907/2006

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## 14.2. UN proper shipping name

Not classified as dangerous in the meaning of 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

Handle in accordance with good industrial hygiene and safety practice.

## 14.7. Maritime transport in bulk according to IMO instruments

Not classified as dangerous in the meaning of transport regulations.

## Other

Not applicable

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## 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: preservative 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.

## SECTION 16: Other information

#### Changes to previous revision

Adaptation to the amending regulation (EU) 2020/878

Section 3. Composition/information on ingredients

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## **Abbreviations**

ADN - Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ADR - Accord relatif au transport international des marchandises Dangereuses par Route  
CAS - Chemical Abstract Service  
CLP - Classification, Labelling and Packaging  
DMEL - Derived Minimum Effect Level  
DNEL - Derived no effect level  
EC50 - Half maximal effective concentration 50%  
GHS - Globally Harmonised System  
IATA - International Air Transport Association  
IMDG - International Maritime Dangerous Goods  
LC50 - Lethal concentration 50%  
LD50 - Lethal dosis 50 %  
MARPOL - International Convention for the Prevention of Pollution from Ships  
PBT - Persistent, bioaccumulative and toxic substance  
PEC - Predicted Environmental Concentration  
PNEC - predicted no effect concentration  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals  
RID - Reglement concernant le transport international ferroviaire de marchandises Dangereuses  
SVHC - Substance of very high concern  
vPvB - Very persistent, very bioaccumulative substance

## **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

## **Other**

### **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.