according to Regulation (EC) No. 1907/2006, as amended



BRILLANT proKliks

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

1.1 Product identifier

Trade name : BRILLANT proKliks
UFI : AEU4-20Y0-F00Y-0GAU

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

Use of the Substance/Mixture : Rinse aid

Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company : Tana Chemie GmbH

Rheinallee 96 55120 Mainz

Telephone : +49613196403 Telefax : +4961319642414

E-mail address : Produktsicherheit@werner-mertz.com

Responsible/issuing person

Contact person : Product development / product safety

1.4 Emergency telephone number

+49(0)551-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Safety data sheet available on request.

2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

according to Regulation (EC) No. 1907/2006, as amended



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	EC-No. Index-No. Registration number		(% w/w)
Citric acid	77-92-9 201-069-1 607-750-00-3 01-2119457026-42	STOT SE 3; H335 Eye Irrit. 2; H319	>= 2 - < 5
ethanol	64-17-5 200-578-6 603-002-00-5 01-2119457610-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319 ————————————————————————————————————	>= 1 - < 2

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : No hazards which require special first aid measures.

If inhaled : Move to fresh air in case of accidental inhalation of dust or fumes

from overheating or combustion. If symptoms persist, call a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water.

In case of eye contact : Protect unharmed eye.

If easy to do, remove contact lens, if worn.

Rinse immediately with plenty of water, also under the eyelids, for at

least 15 minutes.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : For specialist advice physicians should contact the Poisons

Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

according to Regulation (EC) No. 1907/2006, as amended



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5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

Special protective equipment for :

firefighters

In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must

not be discharged into drains.

Fire residues and contaminated fire extinguishing water must be

disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Neutralize with chalk, alkali solution or ammonia.

Sweep up and shovel.

Wipe up with absorbent material (e.g. cloth, fleece). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.

No special handling advice required.

Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against fire :

and explosion

Normal measures for preventive fire protection.

Hygiene measures : Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas : Keep container tightly closed in a dry and well-ventilated place. Store

according to Regulation (EC) No. 1907/2006, as amended



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and containers at room temperature in the original container.

Advice on common storage : No special restrictions on storage with other products.

Further information on storage

stability

No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Rinse aid

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
ethanol	Workers	Inhalation	Acute local effects	1900 mg/m3
	Workers	Inhalation	Long-term systemic effects	950 mg/m3
	Workers	Skin contact	Long-term systemic effects	343 mg/kg
	Consumers	Inhalation	Acute local effects	950 mg/m3
	Consumers	Skin contact	Long-term systemic effects	206 mg/kg
	Consumers	Inhalation	Long-term systemic effects	114 mg/m3
	Consumers	Ingestion	Long-term systemic effects	87 mg/kg
	Consumers	Skin contact	Acute local effects	950 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Citric acid, citric acid	Fresh water	0,44 mg/l
	Marine water	0,044 mg/l
	STP	> 1000 mg/l
	Fresh water sediment	34,6 mg/kg
	Marine sediment	3,46 mg/kg

according to Regulation (EC) No. 1907/2006, as amended



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		Soil	33,1 mg/kg			
	ethanol	Fresh water	0,96 mg/l			
		Marine water	0,79 mg/l			
		Fresh water sediment	3,6 mg/kg			
		Soil	0,63 mg/kg			
		STP	580 mg/l			
		intermittent release	2,75 mg/l			

8.2 Exposure controls

Personal protective equipment

Eye/face protection : not required under normal use

Hand protection

Material : not required under normal use

Material : For prolonged or repeated contact use protective gloves.

It is suggested the usage of chemical resistant gloves made of butyl

rubber or nitrile rubber category III according to EN 374.

As alternative, a different type of gloves might be used if,

accordingly to the recommendations of the producer, guarantee the

same level of protection.

Remarks : Take note of the information given by the producer concerning

permeability and break through times, and of special workplace

conditions (mechanical strain, duration of contact).

Skin and body protection : not required under normal use

Respiratory protection : not required under normal use

according to Regulation (EC) No. 1907/2006, as amended



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : colourless Odour characteristic Melting point/freezing point No data available Boiling point/boiling range No data available Flammability (solid, gas) : No data available Flammability (liquids) No data available Lower explosion limit No data available Upper explosion limit No data available does not flash Flash point No data available Ignition temperature Decomposition temperature No data available рΗ : ca. 2,6, 100 %

at 20 °C

Viscosity, dynamic : No data available Viscosity, kinematic : No data available

Water solubility : soluble

Solubility in other solvents : No data available Partition coefficient: n- : No data available

octanol/water

Vapour pressure : No data available

Density : ca. 1,013 g/cm3 at 20 °C

Relative density : No data available
Relative vapour density : No data available
Particle characteristics : No data available

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

according to Regulation (EC) No. 1907/2006, as amended



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10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

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

Our company is strongly against animal testing.

Our company does not place any orders for animal testing for the finished product or the ingredients. However, as a result of EU legislation (REACH Regulation), the manufacturers of ingredients or EU importers are obliged to test ingredients with regard to their effects on human health and the environment before they are brought onto the market. Some of the tests made necessary by this took place decades ago.

Acute toxicity

Acute toxicity : Not Rated

Components:

Citric acid

77-92-9:

Acute oral toxicity : LD50 Oral (Mouse): 5.400 mg/kg

Method: OECD Test Guideline 401

LD50 Oral (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402

Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg

Method: OECD Test Guideline 402

ethanol

64-17-5:

Acute oral toxicity : LD50 Oral (Rat): 10.470 mg/kg

Method: OECD Test Guideline 401

LD50 (Rat): 5.000 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): 51 mg/l

Exposure time: 4 h

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

Method: OECD Test Guideline 402

according to Regulation (EC) No. 1907/2006, as amended



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LD50 Dermal (Rabbit): > 10.000 mg/kg Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Remarks : According to the classification criteria of the European Union, the

product is not considered as being a skin irritant.

Components:

ethanol

64-17-5:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

Serious eye damage/eye irritation

Product:

Remarks : According to the classification criteria of the European Union, the

product is not considered as being an eye irritant.

Components:

Citric acid

77-92-9:

Result : Eye irritation

ethanol

64-17-5:

Species : Rabbit

Method : OECD Test Guideline 405

Result : Mild eye irritation

Respiratory or skin sensitisation

Product:

Remarks : No data available

Components:

Citric acid

77-92-9:

Result : Does not cause skin sensitisation.

ethanol 64-17-5:

D 1

Result : Not a skin sensitizer.

Germ cell mutagenicity : Not Rated

according to Regulation (EC) No. 1907/2006, as amended



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Carcinogenicity : Not Rated

Reproductive toxicity : Not Rated

STOT - single exposure : The substance or mixture is not classified as specific target organ

toxicant, single exposure.

STOT - repeated exposure : The substance or mixture is not classified as specific target organ

toxicant, repeated exposure.

Repeated dose toxicity

Components:

Citric acid

77-92-9:

Species : Rat

 NOAEL
 : 4.000 mg/kg

 LOAEL
 : 8.000 mg/kg

Application Route : Oral Exposure time : 10 d

ethanol

64-17-5:

Species : Rat, male NOAEL : > 20 mg/kg

Method : OECD Test Guideline 403

Species : Rat, female NOAEL : 1.730 mg/kg

Method : OECD Test Guideline 408

Aspiration toxicity : Not Rated

11.2 Information on other hazards

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Citric acid, citric acid

77-92-9:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 440 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 203

according to Regulation (EC) No. 1907/2006, as amended



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Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1.535 mg/l

Exposure time: 24 h Test Type: static test

EC50 (Daphnia magna (Water flea)): ca. 120 mg/l

Exposure time: 72 h

NOEC (Scenedesmus quadricauda (Green algae)): 425 mg/l Toxicity to algae/aquatic plants

Exposure time: 8 Days Test Type: static test

Toxicity to microorganisms (Pseudomonas putida): > 10.000 mg/l

Exposure time: 16 h

ethanol

64-17-5:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 13 g/l

Exposure time: 96 h

Method: OECD Test Guideline 203

LC50 (Leuciscus idus (Golden orfe)): 8.150 mg/l

Exposure time: 48 h

LC50 (Pimephales promelas (fathead minnow)): > 0,1 g/l

Exposure time: 96 h

LC50 (Fish): 11.200 mg/l

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 12.340 mg/l

Exposure time: 48 h

EC50: 5.012 mg/l

Toxicity to algae/aquatic plants EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l

> Exposure time: 72 h Test Type: Growth inhibition Method: OECD Test Guideline 201

EC50 (Scenedesmus capricornutum (fresh water algae)): 12.900

Exposure time: 48 h Test Type: Growth inhibition Method: No information available.

EC0 (Scenedesmus quadricauda (Green algae)): 5.000 mg/l

Exposure time: 168 h

EC50: 4.432 mg/l

EC10: 11,5 mg/l

EC10: 280 mg/l

EC50 (Pseudomonas putida): 11.800 mg/l Toxicity to microorganisms

Exposure time: 16 h

Test Type: Cell multiplication inhibition test

according to Regulation (EC) No. 1907/2006, as amended



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12.2 Persistence and degradability

Components:

Citric acid, citric acid

77-92-9:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 97 % Exposure time: 28 d Method: OECD 301 B

Result: Readily biodegradable. Biodegradation: 100 % Exposure time: 19 d Method: OECD 301 E

Biochemical Oxygen Demand

(BOD)

526 mg/g

Chemical Oxygen Demand

(COD)

728 mg/g

ThOD : 0,75 g/g

ethanol 64-17-5:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 97 %

Method: OECD Test Guideline 301

12.3 Bioaccumulative potential

Components:

Citric acid, citric acid

77-92-9:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

ethanol 64-17-5:

Bioaccumulation : Concentration: 3,2 mg/l

Partition coefficient: n-

octanol/water

log Pow: -0,32

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This mixture contains no substance considered to be persistent,

bioaccumulating and toxic (PBT).. This mixture contains no

substance considered to be very persistent and very bioaccumulating

(vPvB).

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Components:

Citric acid, citric acid

77-92-9:

Assessment : This substance is not considered to be persistent, bioaccumulating

and toxic (PBT).. This substance is not considered to be very

persistent and very bioaccumulating (vPvB).

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Product:

Additional ecological information : There is no data available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.

Empty containers should be taken to an approved waste handling

site for recycling or disposal.

Waste Code European Waste Catalogue

20 01 29*

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste

disposal authorities.

SECTION 14: Transport information

14.1 UN number or ID number

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.4 Packing group

ADR

Not dangerous goods

according to Regulation (EC) No. 1907/2006, as amended



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IMDG

Not dangerous goods

IATA

Not dangerous goods

14.5 Environmental hazards

ADR

Not dangerous goods

IMDG

Not regulated as a dangerous good

IATA

Not dangerous goods

14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

For personal protection see section 8.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Not applicable

Regulation (EC) No 649/2012 of the European Parliament and : Not applicable

the Council concerning the export and import of dangerous

chemicals

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

of

TA Luft List (Germany) : Total dust: Not applicable

: Inorganic substances in powdered form: Not applicable

: Inorganic substances in vapour or gaseous form: : portionClass 3: <

0,01%

Organic Substances: Not applicableCarcinogenic substances: Not applicable

: Mutagenic: Not applicable

: Toxic to reproduction: Not applicable

Volatile organic compounds

(VOC) content

Directive 2010/75/EU of 24 November 2010 on industrial emissions

(integrated pollution prevention and control)

Update: Percent volatile: 1,94 %

64,93 g/l

VOC content excluding water

Volatile organic compounds

(VOC) content

Directive 2010/75/EU of 24 November 2010 on industrial emissions

(integrated pollution prevention and control)

Update: Percent volatile: 1,94 %

19,65 g/l

VOC content valid only for coating materials used on wood surfaces

according to Detergents : 15 - <30% non-ionic surfactants, <5% anionic surfactants

according to Regulation (EC) No. 1907/2006, as amended



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Regulation EC 648/2004

GISBAU (D) : no assignment possible

15.2 Chemical safety assessment

SECTION 16: Other information

Full text of H-Statements

H225 : Highly flammable liquid and vapour.
H319 : Causes serious eye irritation.
H335 : May cause respiratory irritation.

Full text of other abbreviations

Eye Irrit. : Eye irritation Flam. Liq. : Flammable liquids

STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate: NZIoC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT -Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN -United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Classification of the mixture:

Classification procedure:

Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality

according to Regulation (EC) No. 1907/2006, as amended



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specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

REG_EU / EN

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