

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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## BRILLANT bar 10x1 I

WM 0712680

Order number: 0712680

Version 7.4

Revision Date 14.05.2021

Print Date 23.09.2021

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

#### 1.1 Product identifier

Trade name : BRILLANT bar 10x1 I  
Identification number : 61222

#### 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

112  
  
Centru za kontrolu otrovanja u Zagrebu na tel. (01) 2348 342  
  
+49(0)6131-19240

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Safety data sheet available on request.

#### 2.3 Other hazards

No information available.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Aqueous surfactant solution.

##### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
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## BRILLANT bar 10x1 I

WM 0712680

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Version 7.4

Revision Date 14.05.2021

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propan-2-ol	67-63-0 200-661-7 01-2119457558-25	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 5 - < 10
Alcohols, C12-14, ethers with polyethylene glycol mono-Bu ether	147993-63-3 639-700-1	Skin Irrit. 2; H315 Aquatic Acute 1; H400	>= 5 - < 10

For explanation of abbreviations see section 16.

### 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.

#### 5.2 Special hazards arising from the substance or mixture

## BRILLANT bar 10x1 I

**WM 0712680**

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Specific hazards during firefighting : 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.

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## 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 materials 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.

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## 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 : Vapours may form explosive mixtures with air.

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 and containers : Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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## BRILLANT bar 10x1 I

WM 0712680

Order number: 0712680

Version 7.4

Revision Date 14.05.2021

Print Date 23.09.2021

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

Other data : 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.

#### DNEL

propan-2-ol  
67-63-0:

: End Use: Workers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 888 mg/kg

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 500 mg/m<sup>3</sup>

End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 319 mg/kg

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Long-term systemic effects  
Value: 26 mg/kg

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 89 mg/m<sup>3</sup>

#### PNEC

propan-2-ol  
67-63-0:

: Fresh water  
Value: 140,9 mg/l

Marine water  
Value: 140,9 mg/l

Fresh water sediment  
Value: 552 mg/kg

## BRILLANT bar 10x1 I

WM 0712680

Order number: 0712680

Version 7.4

Revision Date 14.05.2021

Print Date 23.09.2021

Marine sediment  
Value: 552 mg/kg

Soil  
Value: 28 mg/kg

intermittent release  
Value: 140,9 mg/l

STP  
Value: 2251 mg/l

Oral  
Value: 160 mg/kg

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : not required under normal use

#### Hand protection

Material : not required under normal use

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 374-1: 2003 (0,4 mm).  
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

#### Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : blue

Odour : alcohol-like

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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4C.BMP }

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WM 0712680

Order number: 0712680

Version 7.4

Revision Date 14.05.2021

Print Date 23.09.2021

Odour Threshold	: No data available
pH	: ca. 2,5, at 20 °C
Melting point/range	: No data available
Boiling point/boiling range	: No information available.
Flash point	: 41 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Flammability (liquids)	: Not classified as supporting combustion according to the transport regulations.
Burning rate	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: ca. 0,99 g/cm <sup>3</sup> at 20 °C
Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: 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.

## BRILLANT bar 10x1 I

WM 0712680

Order number: 0712680

Version 7.4

Revision Date 14.05.2021

Print Date 23.09.2021

### 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

Hazardous decomposition products : No hazardous decomposition products are known.

Other information : No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

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.

#### Product

Skin corrosion/irritation : According to the classification criteria of the European Union, the product is not considered as being a skin irritant.

Serious eye damage/eye irritation : According to the classification criteria of the European Union, the product is not considered as being an eye irritant.

Respiratory or skin sensitisation : No data available

Germ cell mutagenicity : Not Rated

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.

Aspiration toxicity : Not Rated

Further information : No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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## BRILLANT bar 10x1 I

WM 0712680

Order number: 0712680

Version 7.4

Revision Date 14.05.2021

Print Date 23.09.2021

### Components:

**propan-2-ol**

**67-63-0:**

Acute oral toxicity

: LD50 Oral Rat: 5.840 mg/kg  
Method: OECD Test Guideline 401

LD50 Oral Rat: 4.570 mg/kg

LD50 Oral Rat: 5.045 mg/kg

Acute inhalation toxicity

: LC50 Rat, female: 47,5 mg/l  
Exposure time: 8 h  
Method: OECD Test Guideline 403

LC50 Rat: 72,6 mg/l  
Exposure time: 4 h

LC50 Mouse: 27,2 mg/l  
Exposure time: 4 h

LC50 Rat: 25 mg/l  
Exposure time: 6 h  
Method: OECD Test Guideline 403

LC50 Rat: 30 mg/l  
Exposure time: 4 h

LC50 Rat: 10000 ppm  
Exposure time: 6 h

Acute dermal toxicity

: LD50 Rabbit: 12.800 mg/kg  
Method: OECD Test Guideline 402

LD50 Dermal Rabbit: 12.870 mg/kg  
Method: OECD Test Guideline 402

LD50 Dermal Rabbit: 13.900 mg/kg  
Method: OECD Test Guideline 402

LD50 Dermal Rabbit: 13.400 mg/kg

Skin corrosion/irritation

: Species: Rabbit  
Result: No skin irritation

Serious eye damage/eye  
irritation

: Species: Rabbit  
Result: irritating

Respiratory or skin sensitisation

: Test Method: Buehler Test



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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## BRILLANT bar 10x1 I

WM 0712680

Order number: 0712680

Version 7.4

Revision Date 14.05.2021

Print Date 23.09.2021

Species: Guinea pig  
Result: Does not cause skin sensitisation.

Germ cell mutagenicity

Genotoxicity in vitro

: Type: Ames test  
Test species: Salmonella typhimurium  
with and without metabolic activation  
Result: negative

### Alcohols, C12-14, ethers with polyethylene glycol mono-Bu ether 147993-63-3:

Acute oral toxicity : LD50 Rat: > 2.000 mg/kg  
Method: OECD Test Guideline 401

Skin corrosion/irritation : Species: Rabbit  
Result: Skin irritation  
Method: OECD Test Guideline 404

Serious eye damage/eye irritation : Species: Rabbit  
Result: No eye irritation  
Method: OECD Test Guideline 405

Respiratory or skin sensitisation : Test Method: Maximisation Test  
Species: Guinea pig  
Result: Did not cause sensitisation on laboratory animals.  
Method: OECD Test Guideline 406

Germ cell mutagenicity

Genotoxicity in vitro

: Type: Ames test  
Result: negative  
Method: OECD Test Guideline 471

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### propan-2-ol 67-63-0:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 1.400 mg/l  
Exposure time: 96 h  
  
LC50 (Pimephales promelas (fathead minnow)): 9.640 mg/l  
Exposure time: 96 h  
  
LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
GLP: no

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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## BRILLANT bar 10x1 I

WM 0712680

Order number: 0712680

Version 7.4

Revision Date 14.05.2021

Print Date 23.09.2021

Toxicity to daphnia and other  
aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 13.299 mg/l  
Exposure time: 48 h  
Test Type: Immobilization  
Method: OECD Test Guideline 202

EC50 (Daphnia magna (Water flea)): 9.714 mg/l  
Exposure time: 24 h

EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
GLP: no

(Daphnia (water flea)): > 10.000 mg/l  
Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): 30 mg/l  
Exposure time: 21 d

EC50 (Daphnia magna (Water flea)): 10.000 mg/l  
Exposure time: 48 h

Toxicity to algae

: IC50 (Desmodesmus subspicatus (green algae)): > 1.000 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition

EC50 (Pseudokirchneriella subcapitata (microalgae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: static test  
GLP: no

ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1.000 mg/l  
Exposure time: 72 h

EC50 (Scenedesmus subspicatus): > 100 mg/l  
Exposure time: 72 h  
Test Type: static test

Toxicity to bacteria

: EC50 (Aliivibrio fischeri): 17.700 mg/l  
Exposure time: 5 min  
GLP:

EC10 (Pseudomonas putida): 5.175 mg/l  
Exposure time: 18 h  
Method: DIN 38412  
GLP:

### Alcohols, C12-14, ethers with polyethylene glycol mono-Bu ether 147993-63-3:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 0,6 mg/l  
Method: DIN 38412

Toxicity to daphnia and other  
aquatic invertebrates : EC50 (Daphnia (water flea)): 1,2 mg/l  
Method: DIN 38412

## 12.2 Persistence and degradability

### Product:

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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4C.BMP }

## BRILLANT bar 10x1 I

WM 0712680

Order number: 0712680

Version 7.4

Revision Date 14.05.2021

Print Date 23.09.2021

Biodegradability : Remarks: The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

### Components:

#### propan-2-ol

#### 67-63-0:

Biodegradability : Result: rapidly biodegradable  
Biodegradation: 95 %  
Exposure time: 21 d  
Method: OECD 301 E

Inoculum: activated sludge  
Result: rapidly biodegradable  
Biodegradation: 53 %  
Exposure time: 5 d

Result: rapidly biodegradable  
Biodegradation: > 70 %  
Exposure time: 10 d  
GLP: no

Biodegradation: 99,9 %  
Method: see user defined free text

Chemical Oxygen Demand (COD) : 2,32 g/kg

ThOD : 2,40 g/g

#### Alcohols, C12-14, ethers with polyethylene glycol mono-Bu ether

#### 147993-63-3:

Biodegradability : Biodegradation: > 60 %  
Exposure time: 28 d  
Method: OECD 301 B  
Remarks: Readily biodegradable, according to appropriate OECD test.

### 12.3 Bioaccumulative potential

#### Components:

#### propan-2-ol

#### 67-63-0:

Bioaccumulation : Bioconcentration factor (BCF): 3

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

Partition coefficient: n-octanol/water : log Pow: 0,05

#### Alcohols, C12-14, ethers with polyethylene glycol mono-Bu ether

#### 147993-63-3:

Bioaccumulation : Remarks: Does not accumulate in organisms.

## BRILLANT bar 10x1 I

WM 0712680

Order number: 0712680

Version 7.4

Revision Date 14.05.2021

Print Date 23.09.2021

### 12.4 Mobility in soil

#### Components:

##### propan-2-ol

##### 67-63-0:

Distribution among : Koc: 25  
environmental compartments Remarks: Highly mobile in soils

##### Alcohols, C12-14, ethers with polyethylene glycol mono-Bu ether

##### 147993-63-3:

Mobility : Remarks: After release, adsorbs onto soil.

### 12.5 Results of PBT and vPvB assessment

#### Components:

##### propan-2-ol

##### 67-63-0:

Assessment : This substance is not considered to be very persistent and very  
bioaccumulating (vPvB).. This substance is not considered to be  
persistent, bioaccumulating and toxic (PBT)..

##### Alcohols, C12-14, ethers with polyethylene glycol mono-Bu ether

##### 147993-63-3:

Assessment : This substance is not considered to be very persistent and very  
bioaccumulating (vPvB).. This substance is not considered to be  
persistent, bioaccumulating and toxic (PBT)..

### 12.6 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.

## SECTION 14: Transport information

### 14.1 UN number

#### ADR

Not dangerous goods

#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

### 14.2 Proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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## BRILLANT bar 10x1 I

WM 0712680

Order number: 0712680

Version 7.4

Revision Date 14.05.2021

Print Date 23.09.2021

### ADR

Not dangerous goods

### IMDG

Not dangerous goods

### IATA

Not dangerous goods

#### 14.4 Packing group

##### ADR

Not dangerous goods

##### 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 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

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

TA Luft List (Germany) : Total dust: Not applicable  
: Inorganic substances in powdered form: Not applicable  
: Inorganic substances in vapour or gaseous form: Not applicable  
: Organic Substances: : portionClass 1: 0,49 %  
: Carcinogenic 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)

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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## BRILLANT bar 10x1 I

WM 0712680

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Revision Date 14.05.2021

Print Date 23.09.2021

Update: Percent volatile: 9,5 %  
466,53 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: 9,5 %  
93,96 g/l  
VOC content valid only for coating materials used on wood surfaces

according to Detergents Regulation EC 648/2004 : 5 - <15% Non-ionic surfactants

GISBAU (D) : no assignment possible

### 15.2 Chemical safety assessment

There is no data available for this product.

## SECTION 16: Other information

### Full text of H-Statements

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.

### Further information

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Classification procedure:

Calculation method

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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