



## BRILLANT CLASSIC 2X5L D/F//E/P

WM 0713156

Order number: 0713156

Version 2.11

Revision Date 28.06.2018

Print Date 08.03.2020

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

#### 1.1 Product identifier

Trade name : BRILLANT CLASSIC 2X5L D/F//E/P  
Identification number : 61891

#### 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)6131-19240

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Eye irritation, Category 2 H319: Causes serious eye irritation.

#### 2.2 Label elements

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

Hazard pictograms :



Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : P102 Keep out of reach of children.

##### Prevention:

P264

Wash hands thoroughly after handling.

P280

Wear eye protection/ face protection.

##### Response:



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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

**Disposal:**

P501

Dispose of contents/ container to an approved waste disposal plant.

**Additional Labelling:**

Safety data sheet available on request.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.  
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)
citric acid	77-92-9 201-069-1 01-2119457026-42	Eye Irrit. 2; H319	>= 1 - < 2
sodium p-cumenesulphonate	15763-76-5 239-854-6 01-2119489411-37	Eye Dam. 2; H319	>= 1 - < 2
Alcohols, C12-15, ethoxylated propoxylated	68551-13-3	Aquatic Acute 1; H400	>= 1 - < 2

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.



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- |                         |  |
|-------------------------|--|
| If inhaled              | : Move to fresh air.<br>If symptoms persist, call a physician.   |
| In case of skin contact | : Take off contaminated clothing and shoes immediately.<br>Wash off with soap and plenty of water.<br>If symptoms persist, call a physician.   |
| In case of eye contact  | : Protect unharmed eye.<br>If easy to do, remove contact lens, if worn.<br>Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.<br>If eye irritation persists, consult a specialist. |
| If swallowed            | : Clean mouth with water and drink afterwards plenty of water.<br>Do not give milk or alcoholic beverages.<br>Never give anything by mouth to an unconscious person.<br>Obtain medical attention.                        |

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

- |          |                             |
|----------|-----------------------------|
| Symptoms | : Irritation                |
| 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. |
|-----------|--|

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## 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

- |                                      |   |
|--------------------------------------|---|
| Specific hazards during firefighting | : Do not allow run-off from fire fighting to enter drains or water courses. |
| Hazardous combustion products        | :   |

### 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.  
Ensure adequate ventilation.

#### 6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.

#### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Neutralize with chalk, alkali solution or ammonia.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
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 : Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. 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 : Store in original container. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container.

Other data : No decomposition if stored and applied as directed.

#### 7.3 Specific end use(s)

Specific use(s) : Rinse aid



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**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

**DNEL**

**sodium p-cumenesulphonate** : End Use: Workers  
**15763-76-5:** Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 7,6 mg/kg

End Use: Workers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 53,6 mg/m3

End Use: Consumers  
Exposure routes: Skin contact  
Potential health effects: Long-term systemic effects  
Value: 3,8 mg/kg

End Use: Consumers  
Exposure routes: Inhalation  
Potential health effects: Long-term systemic effects  
Value: 13,2 mg/m3

End Use: Consumers  
Exposure routes: Ingestion  
Potential health effects: Long-term systemic effects  
Value: 3,8 mg/kg

**PNEC**

**citric acid** : Fresh water  
**77-92-9:** Value: 0,44 mg/l

Marine water  
Value: 0,044 mg/l

STP  
Value: > 1000 mg/l

Fresh water sediment  
Value: 34,6 mg/kg

Marine sediment  
Value: 3,46 mg/kg

Soil



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Value: 33,1 mg/kg

**sodium p-cumenesulphonate** : Fresh water  
**15763-76-5:** Value: 0,23 mg/l

STP  
Value: 100 mg/l

intermittent release  
Value: 2,3 mg/l

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : If splashes are likely to occur, wear:  
Tightly fitting safety goggles

#### Hand protection

Material : For prolonged or repeated contact use protective gloves.  
Chemical resistant gloves made of butyl rubber or nitrile rubber  
category III according to EN 374-1: 2003 (0,4 mm).

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; except in case of aerosol formation.  
Recommended Filter type:  
ABEK-P3-filter

#### Environmental exposure controls

General advice : Try to prevent the material from entering drains or water courses.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : characteristic

Odour Threshold : No data available

pH : ca. 2,2



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Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
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. 1,016 g/cm <sup>3</sup>
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.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions., No decomposition if used as directed.

### 10.4 Conditions to avoid



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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

#### 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

Further information : No data available

#### Components:

##### **citric acid**

##### **77-92-9:**

Acute oral toxicity : LD50 Oral Mouse: 5.400 mg/kg  
Method: OECD Test Guideline 401

LD50 Oral Rat: 11.700 mg/kg  
Method: OECD Test Guideline 401

LD50 Oral Mouse: 5.000 mg/kg

LD50 Oral Rat: 3.000 mg/kg

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

Acute toxicity (other routes of administration) : see user defined free text Rat: 725 mg/kg  
Application Route: see user defined free text

see user defined free text Mouse: 940 mg/kg  
Application Route: see user defined free text





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Skin corrosion/irritation	: Result: Mild skin irritation
Serious eye damage/eye irritation	: Result: Eye irritation
Respiratory or skin sensitisation	: Result: Does not cause skin sensitisation.
Carcinogenicity - Assessment	: Not classifiable as a human carcinogen.
Repeated dose toxicity	: Rat: NOAEL: 4.000 mg/kg LOAEL: 8.000 mg/kg Application Route: Oral Exposure time: 10 d
<b>sodium p-cumenesulphonate</b> <b>15763-76-5:</b>	
Acute oral toxicity	: LD50 Oral Rat: > 2.000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	: LC50 Rat: 5 mg/l Exposure time: 232 min
Acute dermal toxicity	: LD50 Dermal Rabbit: > 2.000 mg/kg
Skin corrosion/irritation	: Species: Rabbit Result: Mild skin irritation Method: OECD Test Guideline 404 Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	: Species: Rabbit Result: Moderate eye irritation Method: OECD Test Guideline 405 Causes serious eye irritation.
Respiratory or skin sensitisation	: Test Method: Buehler Test Species: Guinea pig Result: Did not cause sensitisation on laboratory animals. Method: OECD Test Guideline 406
Germ cell mutagenicity	
Genotoxicity in vitro	: Result: negative
Genotoxicity in vivo	: Result: negative
Carcinogenicity - Assessment	: Animal testing did not show any carcinogenic effects.
Teratogenicity	: Species: Rat



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Application Route: Oral  
3.000 mg/kg  
3.000 mg/kg

Repeated dose toxicity : Rat: NOAEL: 763 mg/kg

Application Route: Oral  
Target Organs: Cardio-vascular system

Mouse: NOAEL: 440 mg/kg  
LOAEL: 1.300 mg/kg  
Application Route: Dermal  
Method: OECD Test Guideline 411  
Target Organs: Skin

### Alcohols, C12-15, ethoxylated propoxylated

68551-13-3:

Acute oral toxicity : LD50 Rat: > 5.000 mg/kg

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

#### Components:

citric acid

77-92-9:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 440 - 760 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.535 mg/l  
Exposure time: 24 h

EC50 (Daphnia magna (Water flea)): ca. 120 mg/l  
Exposure time: 72 h

Toxicity to algae : NOEC (Scenedesmus quadricauda (Green algae)): 425 mg/l  
Exposure time: 8 Days  
Test Type: static test

Toxicity to bacteria : (Pseudomonas putida): > 10.000 mg/l  
Exposure time: 16 h

#### sodium p-cumenesulphonate

15763-76-5:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): > 100 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203



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- LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 96 h  
Test Type: static test
- Toxicity to bacteria : EC10 (activated sludge): > 1.000 mg/l  
Exposure time: 3 h  
Test Type: Respiration inhibition  
Method: OECD Test Guideline 209

### Alcohols, C12-15, ethoxylated propoxylated 68551-13-3:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,61 - 0,75 mg/l  
Exposure time: 96 h  
Test Type: static test
- LC50 (Cyprinodon variegatus (sheepshead minnow)): > 3,2 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,17 - 0,25 mg/l  
Exposure time: 48 h

## 12.2 Persistence and degradability

### Product:

- 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:

#### 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



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Method: OECD 301 E

Biochemical Oxygen Demand (BOD) : 526 mg/g

Chemical Oxygen Demand (COD) : 728 mg/g

ThOD : 0,75 g/g

### **sodium p-cumenesulphonate 15763-76-5:**

Biodegradability : Test Type: aerobic  
Result: Readily biodegradable.  
Biodegradation: > 60 %  
Exposure time: 28 d  
Method: OECD 301 B

### **Alcohols, C12-15, ethoxylated propoxylated 68551-13-3:**

Biodegradability : Remarks: This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Biodegradation: 60,5 %  
Method: EN ISO 14593: CO2-Headspace-Test

Biodegradation: 95,5 %  
Remarks: see user defined free text

Chemical Oxygen Demand (COD) : 2.200 mg/g

BOD/COD : BOD/COD: 29 %  
Remarks: see user defined free text

Dissolved organic carbon (DOC) : 620 mg/g  
Method: see user defined free text

## 12.3 Bioaccumulative potential

### Components:

#### **citric acid**

**77-92-9:**

Biaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -1,72

#### **sodium p-cumenesulphonate**

**15763-76-5:**

Biaccumulation : Remarks: Bioaccumulation is unlikely.



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### 12.4 Mobility in soil

**Components:**

**sodium p-cumenesulphonate**

**15763-76-5:**

Stability in soil : Remarks: Not expected to adsorb on soil.

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

**Components:**

**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 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 : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.

Waste Code : European Waste Catalogue  
200129  
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

ADR

Not dangerous goods



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### IMDG

Not dangerous goods

### IATA

Not dangerous goods

### 14.2 Proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class

#### 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

Seveso III: Directive 2012/18/EU : Not applicable

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: Not applicable
- : Carcinogenic substances: Not applicable



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	: Mutagenic: Not applicable
	: Toxic to reproduction: Not applicable
Volatile organic compounds (VOC) content	: Percent volatile: 10 % 787,03 g/l VOC content excluding water
Volatile organic compounds (VOC) content	: Percent volatile: 10 % 101,6 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, METHYLISOTHIAZOLINONE, BENZISOTHIAZOLINONE
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

H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.

### Further information

Classification procedure: H319 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 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 -



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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

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 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.

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