

# SAFETY DATA SHEET

according to the Globally Harmonized System

**schülke** 

## **gigazyme® X-tra**

Version  
02.03

Revision Date:  
14.09.2022

Date of last issue: 16.05.2022

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : gigazyme® X-tra

#### **Manufacturer or supplier's details**

Producer : Schülke & Mayr GmbH  
Robert-Koch-Str. 2  
  
22851 Norderstedt  
Germany  
Telephone: +49 (0)40/ 52100-0  
Telefax: +49 (0)40/ 52100318  
mail@schuelke.com  
www.schuelke.com

Importer : Schulke India Pvt. Ltd.  
Delphi, A-Wing, Office No. 603, Orchard Avenue,  
Hiranandani Business Park

Powai, Mumbai-400 076 Maharashtra  
India  
Telephone: +91 22 6173 6600  
Telefax: +91 22 6173 6650  
india.office@schuelke.com

Emergency telephone number : +91 22 6173 6600  
Emergency telephone number : +65 3158 1198  
Carechem 24 International: 000 800 100 7479 (toll free)  
+44 1865 407333 (only English)

#### **Recommended use of the chemical and restrictions on use**

Recommended use : Cleaning agent  
Disinfectants

Restrictions on use : Restricted to professional users.

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### 2. HAZARDS IDENTIFICATION

#### **Manufacture, Storage and Import of Hazardous Chemicals Rules 1989**

##### **Classification**

Highly flammable liquids

##### **GHS Classification**

Acute toxicity (Oral) : Category 4

Skin corrosion/irritation : Sub-category 1B

Serious eye damage/eye irritation : Category 1

Respiratory sensitisation : Category 1

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**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture  
Chemical nature : Solution of the following substances with harmless additives.

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched	69011-36-5	>= 10 - < 20
didecyldimethylammonium chloride	7173-51-5	>= 5 - < 10
propan-2-ol	67-63-0	>= 1 - < 10
polyhexamethylene biguanide hydrochloride	27083-27-8	>= 0.25 - < 1
subtilisin	9014-01-1	>= 0.1 - < 0.25

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**4. FIRST AID MEASURES**

General advice : Take off all contaminated clothing immediately.

If inhaled : If symptoms persist, call a physician.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes.

In case of 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.  
If eye irritation persists, consult a specialist.

If swallowed : Do NOT induce vomiting.  
Clean mouth with water and drink afterwards plenty of water.  
Obtain medical attention.

Most important symptoms and effects, both acute and delayed : Treat symptomatically.

Notes to physician : For specialist advice physicians should contact the Poisons Information Service.

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**5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Dry powder  
Foam  
Water spray jet  
Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : Do NOT use water jet.

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

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Hazardous combustion products : No hazardous combustion products are known

Special protective equipment : In the event of fire, wear self-contained breathing apparatus for firefighters

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Increased risk of slipping in the presence of leaked / spilled product.  
Use personal protective equipment.

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

Methods and materials for containment and cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

### 7. HANDLING AND STORAGE

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

Advice on safe handling : Prepare the working solution as given on the label(s) and/or the user instructions.

Conditions for safe storage : Store at room temperature in the original container.

Further information on storage conditions : Keep away from direct sunlight.  
Keep container tightly closed.  
Keep away from heat.  
Recommended storage temperature: 5 - 25°C

Materials to avoid : No materials to be especially mentioned.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
subtilisin	9014-01-1	C	0.00006 mg/m <sup>3</sup> (crystalline active enzyme)	ACGIH

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### **Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work-week	40 mg/l	ACGIH BEI

### **Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally required.

No personal respiratory protective equipment normally required.

Hand protection  
Directive

: The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Remarks

: Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0.11 mm) made by KCL or gloves from other manufacturers offering the same protection. Prolonged contact: Nitrile rubber gloves e.g. Camatril (>480 Min., layer thickness: 0,40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0,70 mm) made by KCL or gloves from other manufacturers offering the same protection.

Eye protection

: Safety glasses with side-shields conforming to EN166

Skin and body protection

: Work uniform or laboratory coat.

Protective measures

: Avoid contact with skin and eyes.

Hygiene measures

: Keep away from food and drink.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance

: liquid

Colour

: green

Odour

: odourized

Odour Threshold

: not determined

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pH	:	7.5 (20 °C) Concentration: 100 %
Melting point/freezing point	:	< -5 °C
Decomposition temperature	:	Not applicable
Boiling point/boiling range	:	not determined
Flash point	:	ca. 52 °C Method: DIN 53213, Part 1
Evaporation rate	:	No data available
Flammability (liquids)	:	Does not sustain combustion.
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	not determined
Relative vapour density	:	No data available
Density	:	ca. 1.08 g/cm <sup>3</sup> (20 °C)
Solubility(ies) Water solubility	:	completely soluble (20 °C)
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Viscosity Viscosity, dynamic	:	ca. 53 mPa*s
Explosive properties	:	No data available
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Metal corrosion rate	:	Not corrosive to metals

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### 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use.
Chemical stability	:	None reasonably foreseeable.
Possibility of hazardous reac-	:	No dangerous reaction known under conditions of normal use.

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Conditions to avoid : Protect from frost, heat and sunlight.

Incompatible materials : Never mix concentrates directly.

Hazardous decomposition products : None reasonably foreseeable.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### **Components:**

#### **Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched:**

Acute oral toxicity : LD50 (Rat): > 300 - 2,000 mg/kg

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50: > 5,000 mg/kg  
Method: literature value

#### **didecyldimethylammonium chloride:**

Acute oral toxicity : LD50 (Rat): 238 mg/kg  
Method: OECD Test Guideline 401  
Assessment: Toxic if swallowed.

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rabbit): 3,342 mg/kg

#### **propan-2-ol:**

Acute oral toxicity : LD50 (Rat): 5,840 mg/kg

Acute inhalation toxicity : LC50 (Rat): 39 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): 13,900 mg/kg  
Method: OECD Test Guideline 402

#### **polyhexamethylene biguanide hydrochloride:**

Acute oral toxicity : LD50 (Rat): 500 - 1,000 mg/kg  
Assessment: Harmful if swallowed.

Acute inhalation toxicity : LC50 (Rat): 0.37 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Assessment: Fatal if inhaled.

Acute dermal toxicity : Remarks: No data available

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### **subtilisin:**

Acute oral toxicity : LD50 (Rat): 1,800 mg/kg  
Method: OECD Test Guideline 401

Acute dermal toxicity : Remarks: No data available

### **Skin corrosion/irritation**

#### **Components:**

#### **Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched:**

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

#### **didecyldimethylammonium chloride:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : Corrosive after 3 minutes to 1 hour of exposure

#### **propan-2-ol:**

Result : No skin irritation

#### **polyhexamethylene biguanide hydrochloride:**

Result : Skin irritation  
Remarks : Irritating to skin.

#### **subtilisin:**

Method : OECD Test Guideline 404  
Result : Skin irritation

### **Serious eye damage/eye irritation**

#### **Components:**

#### **Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched:**

Species : Rabbit  
Method : Draize Test  
Result : Irreversible effects on the eye

#### **didecyldimethylammonium chloride:**

Result : Irreversible effects on the eye

#### **propan-2-ol:**

Result : Eye irritation

#### **polyhexamethylene biguanide hydrochloride:**

Result : Eye irritation

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||Remarks : May irritate eyes.

### **subtilisin:**

||Method : OECD Test Guideline 405  
||Result : Irreversible effects on the eye

### **Respiratory or skin sensitisation**

#### **Components:**

##### **Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-omega.-hydroxy-, branched:**

||Test Type : Maximisation Test  
||Species : Guinea pig  
||Result : Did not cause sensitisation on laboratory animals.

##### **didecyldimethylammonium chloride:**

||Test Type : Buehler Test  
||Species : Guinea pig  
||Method : OECD Test Guideline 406  
||Result : Did not cause sensitisation on laboratory animals.  
||GLP : yes

##### **propan-2-ol:**

||Test Type : Buehler Test  
||Species : Guinea pig  
||Result : Did not cause sensitisation on laboratory animals.

##### **polyhexamethylene biguanide hydrochloride:**

||Exposure routes : Dermal  
||Result : May cause sensitisation by skin contact.  
||Remarks : May cause sensitisation of susceptible persons by skin contact.

##### **subtilisin:**

||Result : Probability of respiratory sensitisation in humans based on animal testing  
||Remarks : largely based on human evidence

### **Germ cell mutagenicity**

#### **Components:**

##### **Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-omega.-hydroxy-, branched:**

||Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative

##### **didecyldimethylammonium chloride:**

||Genotoxicity in vitro : Test system: Salmonella typhimurium

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Metabolic activation: Metabolic activation  
Method: OECD Test Guideline 471  
Result: Not mutagenic in Ames Test

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)  
Species: Rat  
Application Route: Oral  
Method: OECD Test Guideline 475  
Result: negative

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

### **propan-2-ol:**

Genotoxicity in vitro : Test Type: Ames test  
Method: Mutagenicity (Escherichia coli - reverse mutation assay)  
Result: Non mutagenic

Genotoxicity in vivo : Species: Mouse  
Method: Mutagenicity (micronucleus test)  
Result: Non mutagenic

Germ cell mutagenicity - Assessment : Not mutagenic in Ames Test

### **polyhexamethylene biguanide hydrochloride:**

Germ cell mutagenicity - Assessment : No data available

### **subtilisin:**

Genotoxicity in vitro : Method: OECD Test Guideline 471  
Result: Non mutagenic

Germ cell mutagenicity - Assessment : Animal testing did not show any mutagenic effects.

### **Carcinogenicity**

#### **Components:**

#### **Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-omega.-hydroxy-, branched:**

Remarks : This information is not available.

#### **didecyldimethylammonium chloride:**

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

### **propan-2-ol:**

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

**polyhexamethylene biguanide hydrochloride:**

Carcinogenicity - Assessment : Limited evidence of a carcinogenic effect.

**subtilisin:**

Carcinogenicity - Assessment : No data available

**Reproductive toxicity**

**Components:**

**Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-omega-hydroxy-, branched:**

Effects on fertility : Remarks: Animal testing did not show any effects on fertility.

Effects on foetal development : Remarks: No effects on fertility and early embryonic development were detected.

**didecyldimethylammonium chloride:**

Reproductive toxicity - Assessment : No data available

**propan-2-ol:**

Effects on foetal development : Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 400 mg/kg body weight

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

**polyhexamethylene biguanide hydrochloride:**

Reproductive toxicity - Assessment : Did not show teratogenic effects in animal experiments.

**subtilisin:**

Reproductive toxicity - Assessment : No data available

**STOT - single exposure**

**Components:**

**Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-omega-hydroxy-, branched:**

Remarks : No data available

**didecyldimethylammonium chloride:**

Remarks : No data available

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### **propan-2-ol:**

||Assessment : May cause drowsiness or dizziness.

### **polyhexamethylene biguanide hydrochloride:**

||Assessment : No data available

### **subtilisin:**

||Target Organs : Respiratory Tract  
||Assessment : May cause respiratory irritation.

### **STOT - repeated exposure**

#### **Components:**

#### **Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched:**

||Remarks : No data available

#### **didecyldimethylammonium chloride:**

||Remarks : No data available

### **propan-2-ol:**

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

### **polyhexamethylene biguanide hydrochloride:**

||Assessment : Causes damage to organs through prolonged or repeated exposure.

### **Repeated dose toxicity**

#### **Components:**

#### **Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched:**

||Species : Rat  
||NOAEL : 50 mg/kg  
||Application Route : Oral  
||Exposure time : 2 yr  
||Target Organs : Heart, Liver, Kidney

#### **didecyldimethylammonium chloride:**

||Remarks : No data available

### **propan-2-ol:**

||Remarks : No data available

### **polyhexamethylene biguanide hydrochloride:**

||Remarks : Toxic: danger of serious damage to health by prolonged exposure through inhalation.

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### Further information

#### Product:

Remarks : The product has not been tested.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

##### **Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-omega-hydroxy-, branched:**

Toxicity to fish	:	LC50 (Danio rerio (zebra fish)): 2.5 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1.5 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	ErC50 ( Desmodesmus subspicatus (green algae)): 2.5 mg/l Exposure time: 72 h  EC10 ( Desmodesmus subspicatus (green algae)): 0.6 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to fish (Chronic toxicity)	:	NOEC: 1.73 mg/l Method: QSAR
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 1.36 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: QSAR

##### **didecyldimethylammonium chloride:**

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 0.19 mg/l Exposure time: 96 h GLP: yes
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.062 mg/l Exposure time: 48 h GLP: yes
Toxicity to algae/aquatic plants	:	ErC50 ( Pseudokirchneriella subcapitata (green algae)): 0.026 mg/l Exposure time: 96 h Method: OECD Test Guideline 201 GLP: yes
M-Factor (Acute aquatic toxicity)	:	10
Toxicity to fish (Chronic tox-	:	NOEC: 0.032 mg/l

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icity)		Exposure time: 34 d Species: Danio rerio (zebra fish) Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0.014 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: Expert judgement and weight of evidence determination.
M-Factor (Chronic aquatic toxicity)	:	1

### **propan-2-ol:**

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 9,640 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 10,000 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 ( Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h Test Type: static test  EC50 ( green algae): 1,800 mg/l Exposure time: 7 d

### **polyhexamethylene biguanide hydrochloride:**

Toxicity to fish	:	LC50 (Oncorhynchus mykiss): 0.026 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0.09 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	ErC50 ( Pseudokirchneriella subcapitata (green algae)): 0.019 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0.0084 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

### **subtilisin:**

Toxicity to fish	:	LC50 (Fish): 8.2 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna): 0.586 mg/l Exposure time: 48 h Method: OECD Test Guideline 202

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Toxicity to algae/aquatic plants	:	ErC50 ( algae): 0.83 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC ( Pseudokirchneriella subcapitata (green algae)): 0.041 mg/l Exposure time: 72 h
M-Factor (Acute aquatic toxicity)	:	1
Toxicity to fish (Chronic toxicity)	:	NOEC: 0.017 mg/l Exposure time: 32 d Species: Pimephales promelas (fathead minnow) Method: OECD Test Guideline 210
M-Factor (Chronic aquatic toxicity)	:	1

### **Persistence and degradability**

#### **Product:**

Biodegradability : Result: Readily biodegradable, according to appropriate OECD test.  
Method: OECD 301D / EEC 84/449 C6

#### **Components:**

##### **Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-omega-hydroxy-, branched:**

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

##### **didecyldimethylammonium chloride:**

Biodegradability : Concentration: 10 mg/l  
Result: Readily biodegradable.  
Biodegradation: 72 %  
Exposure time: 28 d  
Method: OECD 301B/ ISO 9439/ EEC 84/449 C5  
GLP: yes

##### **propan-2-ol:**

Biodegradability : Result: Readily biodegradable.

##### **polyhexamethylene biguanide hydrochloride:**

Biodegradability : Result: Not readily biodegradable.

##### **subtilisin:**

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Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301B

### **Bioaccumulative potential**

#### **Components:**

#### **Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched:**

Bioaccumulation : Remarks: None reasonably foreseeable.

Partition coefficient: n-octanol/water : Remarks: Not applicable

#### **didecyldimethylammonium chloride:**

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)  
Exposure time: 46 d  
Bioconcentration factor (BCF): 81

#### **propan-2-ol:**

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

Partition coefficient: n-octanol/water : log Pow: 0.05 (20 °C)  
Method: OECD Test Guideline 107

#### **polyhexamethylene biguanide hydrochloride:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

#### **subtilisin:**

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: < 0

### **Mobility in soil**

#### **Components:**

#### **Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, branched:**

Mobility : Remarks: No data available

#### **didecyldimethylammonium chloride:**

Mobility : Remarks: Mobile in soils

#### **propan-2-ol:**

Mobility : Remarks: Mobile in soils

#### **polyhexamethylene biguanide hydrochloride:**

Mobility : Remarks: After release, adsorbs onto soil.



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### **subtilisin:**

Mobility : Remarks: No data available

### **Other adverse effects**

### **Product:**

Additional ecological information : No data is available on the product itself.

### **Components:**

#### **polyhexamethylene biguanide hydrochloride:**

Results of PBT and vPvB 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).

## **13. DISPOSAL CONSIDERATIONS**

### **Disposal methods**

Waste from residues : Disposal together with normal waste is not allowed. Special disposal required according to local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

## **14. TRANSPORT INFORMATION**

### **International Regulations**

#### **UNRTDG**

UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(didecyldimethylammonium chloride)  
Class : 9  
Packing group : III  
Labels : 9

#### **IATA-DGR**

UN/ID No. : UN 3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.  
(didecyldimethylammonium chloride)  
Class : 9  
Packing group : III  
Labels : Miscellaneous  
Packing instruction (cargo aircraft) : 964  
Packing instruction (passenger aircraft) : 964

#### **IMDG-Code**

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UN number : UN 3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.  
(didecyldimethylammonium chloride)  
Class : 9  
Packing group : III  
Labels : 9  
EmS Code : F-A, S-F  
Marine pollutant : yes

### **Transport in bulk according to IMO instruments**

Not applicable for product as supplied.

### **Special precautions for user**

Remarks : Not classified as supporting combustion according to the transport regulations.

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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## **15. REGULATORY INFORMATION**

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

This information is not available.

### **The components of this product are reported in the following inventories:**

TCSI : On the inventory, or in compliance with the inventory  
TSCA : Product contains substance(s) not listed on TSCA inventory.  
AIIC : All components are listed on the inventory, regulatory obligations/restrictions apply  
DSL : This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL.  
4-formylphenylboronic acid  
reaction mass of cis-and trans-cyclohexadec-8-en-1-one  
ENCS : Not in compliance with the inventory  
ISHL : Not in compliance with the inventory  
KECI : On the inventory, or in compliance with the inventory  
PICCS : Not in compliance with the inventory  
IECSC : On the inventory, or in compliance with the inventory  
NZIoC : Not in compliance with the inventory

# SAFETY DATA SHEET

according to the Globally Harmonized System

**schülke** -t

## **gigazyme® X-tra**

Version  
02.03

Revision Date:  
14.09.2022

Date of last issue: 16.05.2022

TECI : Not in compliance with the inventory

## 16. OTHER INFORMATION

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
ACGIH BEI : ACGIH - Biological Exposure Indices (BEI)

ACGIH / TWA : 8-hour, time-weighted average  
ACGIH / STEL : Short-term exposure limit  
ACGIH / C : Ceiling limit

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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.