

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**schülke** 

## **gigasept® FF (new)**      **No Change Service!**

Version  
03.02

Revision Date:  
09.02.2017

Date of last issue: 24.08.2016  
Date of first issue: 13.02.2007

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

#### **1.1 Product identifier**

Trade name : gigasept® FF (new)

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

Use of the Sub-  
stance/Mixture : Disinfectants

Recommended restrictions  
on use : Restricted to professional users.

#### **1.3 Details of the supplier of the safety data sheet**

Manufacturer/ Supplier : 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

E-mail address of person  
responsible for the  
SDS/Contact person : Application Department  
+49 (0)40/ 521 00 8800  
ADHI@schuelke.com  
(Schülke & Mayr UK Ltd.: +44-1142543500)

#### **1.4 Emergency telephone number**

Emergency telephone num-  
ber : UK Poisons Emergency number: 0870 600 6266  
Emergency telephone num-  
ber : +49 (0)40/ 52100-0

### **SECTION 2: Hazards identification**

#### **2.1 Classification of the substance or mixture**

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

Serious eye damage, Category 1	H318: Causes serious eye damage.
Acute toxicity, Category 4	H332: Harmful if inhaled.
Specific target organ toxicity - single ex- posure, Category 2	H371: May cause damage to organs if inhaled.

#### **2.2 Label elements**

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

Hazard pictograms :



Signal word : Danger

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Hazard statements	: H318 H332 H371	Causes serious eye damage. Harmful if inhaled. May cause damage to organs if inhaled.
Precautionary statements	: P261 P271  P280 P305+P351+P338+P310  P308+P311  P501	Avoid breathing vapours. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. IF exposed or concerned: Call a POISON CENTER/doctor. Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

638-37-9	Succindialdehyde
67-56-1	Methanol

Special labelling of certain mixtures : Labelling according to Regulation (EC) No. 648/2004: (< 5 % Phosphonates, < 5 % anionic surfactants, < 5 % non-ionic surfactants, perfumes)  
Contains 2-methyl-2H-isothiazol-3-one

Further information : The product is classified in accordance with Annex I (2.6.4.5) to Regulation (EC) 1272/2008.

### 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.

Do not breathe vapour.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

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

#### Hazardous components

Chemical name	Index-Number CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Succindialdehyde	- - - 638-37-9 211-333-8	Acute Tox. 3; H301 Eye Irrit. 2; H319 STOT SE 3; H335	11,9
Dimethoxytetrahydrofurane	- - - 696-59-3 211-797-1	Flam. Liq. 3; H226 Acute Tox. 3; H331 Eye Dam. 2; H319	3,2

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Ethanol	603-002-00-5 64-17-5 200-578-6 01-2119457610-43-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319	5 - 15
Methanol	603-001-00-X 67-56-1 200-659-6	Flam. Liq. 2; H225 Acute Tox. 3; H331 Acute Tox. 3; H311 Acute Tox. 3; H301 STOT SE 1; H370	5 - 10
Alkyl-polyethylen-glycolpolypropylen-glycolether	- - - 127036-24-2 - - -	Eye Dam. 1; H318	1 - 5
2-(2-hexyloxy-ethoxy)ethanol	603-175-00-7 112-59-4 203-988-3 01-2119945815-28-XXXX	Acute Tox. 4; H312 Eye Dam. 1; H318	1 - 5

For explanation of abbreviations see section 16.

## **SECTION 4: First aid measures**

### **4.1 Description of first aid measures**

- General advice : Take off all contaminated clothing immediately.
- If inhaled : Move the victim to fresh air and keep him calm. No artificial respiration, mouth-to-mouth or mouth to nose. Use suitable instruments/apparatus. If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with plenty of water. If symptoms persist, call a physician.
- 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. Call a physician immediately.

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

- Symptoms : Treat symptomatically.,

### **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 : Dry powder, Foam, Water spray jet, Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire-fighting : No information available.

Specific risk from the substance or the product itself, its combustion products or evolved gases : Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>)**5.3 Advice for firefighters**

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

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Ensure adequate ventilation. Use personal protective equipment.

**6.2 Environmental precautions**

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

**6.3 Methods and material for containment and cleaning up**Methods for 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).**6.4 Reference to other sections**

see Section 8 + 13

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**Advice on safe handling : Provide sufficient air exchange and/or exhaust in work rooms.  
Wear personal protective equipment.

Advice on protection against fire and explosion : No special protective measures against fire required.

Hygiene measures : When using do not eat, drink or smoke.

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Store at room temperature in the original container. Keep at temperature not exceeding 25 °C.

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

Advice on common storage : No materials to be especially mentioned.

**7.3 Specific end use(s)**

Specific use(s) : none

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters**

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### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Ethanol	64-17-5	Permissible exposure limit	500 ppm 960 mg/m <sup>3</sup>	TRGS 900
		Ceiling Limit Value	1.000 ppm 1.920 mg/m <sup>3</sup>	TRGS 900
		Permissible exposure limit	1.000 ppm 1.900 mg/m <sup>3</sup>	OSHA
Methanol	67-56-1	Permissible exposure limit	200 ppm 260 mg/m <sup>3</sup>	EC/2000/39

### 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 effects, Local effects	1900 mg/m <sup>3</sup>
	Workers	Skin contact	Chronic effects	343 mg/kg
	Workers	Inhalation	Chronic effects	950 mg/m <sup>3</sup>
Methanol	Workers	Skin contact	Short-term exposure, Systemic effects	40 mg/kg
	Workers	Inhalation	Short-term exposure, Systemic effects	260 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	40 mg/kg
	Workers	Inhalation	Long-term systemic effects	260 mg/m <sup>3</sup>
2-(2-hexyloxy-ethoxy)ethanol	Workers	Skin contact	Long-term systemic effects	8,3 mg/kg
	Workers	Inhalation	Long-term systemic effects	27,3 mg/m <sup>3</sup>

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

Substance name	Environmental Compartment	Value
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
Methanol	Fresh water	154 mg/l
	Marine water	15,4 mg/l
	Effects on waste water treatment plants	100 mg/l
	Soil	23,5 mg/kg
	Sediment	570,4 mg/kg

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	Intermittent use/release	1540 mg/l
2-(2-hexyloxy-ethoxy)ethanol	Fresh water	1,963 mg/l
	Marine water	0,1986 mg/l
	Intermittent use/release	1 mg/l
	Effects on waste water treatment plants	1 mg/l
	Fresh water sediment	10,7 mg/kg
	Marine sediment	1,07 mg/kg
	Soil	0,02 mg/kg

### 8.2 Exposure controls

#### **Personal protective equipment**

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection  
Directive : The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC 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.

Protective measures : Avoid contact with skin and eyes.  
Do not breathe vapour.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid  
Colour : green  
Odour : characteristic  
Odour Threshold : not determined  
pH : 6,3 - 6,6, 20 °C  
Melting point/freezing point : < -5 °C  
Decomposition temperature : No data available  
Boiling point/boiling range : ca. 90 °C  
Flash point : 38,5 °C, DIN 51755 Part 1  
Other information: Does not sustain combustion.  
Evaporation rate : No data available  
Flammability (solid, gas) : Not applicable  
Upper explosion limit : No data available  
Lower explosion limit : No data available  
Vapour pressure : No data available  
Relative vapour density : No data available  
Density : ca. 1,01 g/cm<sup>3</sup>, 20 °C

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Solubility(ies)	
Water solubility	: in all proportions , 20 °C
Auto-ignition temperature	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

### **9.2 Other information**

No data available

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

### **10.2 Chemical stability**

The product is chemically stable.

### **10.3 Possibility of hazardous reactions**

None reasonably foreseeable.

### **10.4 Conditions to avoid**

Extremes of temperature and direct sunlight.

### **10.5 Incompatible materials**

Strong acids and strong bases,

### **10.6 Hazardous decomposition products**

None reasonably foreseeable.

## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

#### **Acute toxicity**

##### **Product:**

Acute oral toxicity	: LD50 (Rat): 1.990 mg/kg, Harmful if swallowed., The following toxicological data shown are those obtained from tests on products of similar composition.
Acute inhalation toxicity	: Acute toxicity estimate: 4,3 mg/l, Harmful if inhaled.
Acute dermal toxicity	: Acute toxicity estimate: > 3.000 mg/kg, in accordance with the calculation methode presented in the GHS (Globally Harmonized System), Part 3, Chapter 3.1)
Acute toxicity (other routes of administration)	: LD50 intravenous (Rat): 363 mg/kg , The following toxicological data shown are those obtained from tests on products of similar composition.

#### **Skin corrosion/irritation**

##### **Components:**

##### **Succindialdehyde:**

No data available

##### **Dimethoxytetrahydrofurane:**

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Rabbit, No skin irritation

**Ethanol:**

Rabbit, No skin irritation

**Methanol:**

Rabbit, Mild skin irritation

**Alkyl-polyethylen-glycolpolypropylen-glycolether:**

Rabbit, No skin irritation

**2-(2-hexyloxy-ethoxy)ethanol:**

Skin irritation

**Serious eye damage/eye irritation****Product:**

Calculation method, Causes serious eye damage.

**Respiratory or skin sensitisation****Components:****Succindialdehyde:**

No data available

**Dimethoxytetrahydrofurane:**

According to experience not expected

**Ethanol:**

Did not cause sensitisation on laboratory animals. Maximisation Test, Guinea pig

**Methanol:**

Did not cause sensitisation on laboratory animals. Maximisation Test, Guinea pig

**Alkyl-polyethylen-glycolpolypropylen-glycolether:**

Did not cause sensitisation on laboratory animals. Guinea pig, OECD Test Guideline 406

**2-(2-hexyloxy-ethoxy)ethanol:**

Did not cause sensitisation on laboratory animals. Mouse

**Germ cell mutagenicity****Components:****Succindialdehyde:**

Germ cell mutagenicity- Assessment : No data available

**Dimethoxytetrahydrofurane:**

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

**Ethanol:**

Genotoxicity in vitro : OECD Test Guideline 471, Not mutagenic in Ames Test

Genotoxicity in vivo : not mutagenic

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

**Methanol:**

Germ cell mutagenicity- Assessment : No data available

**Alkyl-polyethylen-glycolpolypropylen-glycolether:**

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

**2-(2-hexyloxy-ethoxy)ethanol:**

Genotoxicity in vitro : Did not show mutagenic effects in animal experiments.

Germ cell mutagenicity- Assessment : Did not show mutagenic effects in animal experiments.



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**Carcinogenicity****Components:****Succindialdehyde:**

Carcinogenicity - Assessment : No data available

**Dimethoxytetrahydrofurane:**

Carcinogenicity - Assessment : No data available

**Ethanol:**

Carcinogenicity - Assessment : Did not show carcinogenic effects in animal experiments.

**Methanol:**

Carcinogenicity - Assessment : No data available

**Alkyl-polyethylen-glycolpolypropylen-glycolether:**

Carcinogenicity - Assessment : No data available

**2-(2-hexyloxy-ethoxy)ethanol:**

Carcinogenicity - Assessment : No data available

**Reproductive toxicity****Components:****Succindialdehyde:**

Reproductive toxicity - Assessment : No data available

**Dimethoxytetrahydrofurane:**

Reproductive toxicity - Assessment : No data available

**Ethanol:**

Effects on foetal development : Rat, Oral, NOAEL: 2.000 mg/kg

Reproductive toxicity - Assessment : In animal testing, risk of impaired fertility was shown only after administration of very high doses of this substance.

**Methanol:**

Reproductive toxicity - Assessment : No data available

**Alkyl-polyethylen-glycolpolypropylen-glycolether:**

Reproductive toxicity - Assessment : No data available

**2-(2-hexyloxy-ethoxy)ethanol:**

Reproductive toxicity - Assessment : Animal testing did not show any effects on fertility.

**STOT - single exposure****Product:**

May cause damage to organs if inhaled., Calculation method

**STOT - repeated exposure****Components:****2-(2-hexyloxy-ethoxy)ethanol:**

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

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Rat, NOAEL: 1.730 mg/kg, LOAEL: 3.160 mg/kg, Oral90 d

**Aspiration toxicity**

No data available

**SECTION 12: Ecological information****12.1 Toxicity****Components:****Succindialdehyde:**

Toxicity to fish : No data available

Toxicity to daphnia and other  
aquatic invertebrates : No data available

Toxicity to algae : No data available

**Dimethoxytetrahydrofurane:**

Toxicity to fish : LC50 (Leuciscus idus): 2.500 mg/l, 96 h, DIN 38412

Toxicity to daphnia and other  
aquatic invertebrates : No data available

Toxicity to algae : No data available

**Ethanol:**

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 8.140 mg/l, 48 h

Toxicity to daphnia and other  
aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 5.000 mg/l, 48 hToxicity to algae : IC50 (Scenedesmus quadricauda (Green algae)): > 100 mg/l,  
72 h**Methanol:**

Toxicity to fish : LC50 (Lepomis machrocirus): 15.400 mg/l, 96 h

Toxicity to daphnia and other  
aquatic invertebrates : NOEC (Daphnia magna): 10.000 mg/l, 48 hToxicity to algae : NOEC (Scenedesmus quadricauda (Green algae)): 8.000  
mg/l, 192 h**Alkyl-polyethylen-glycolpolypropylen-glycolether:**Toxicity to fish : LC50 (Danio rerio (zebra fish)): 1 - 10 mg/l, 96 h, OECD Test  
Guideline 203Toxicity to daphnia and other  
aquatic invertebrates : not determined

Toxicity to algae : not determined

**2-(2-hexyloxy-ethoxy)ethanol:**Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 200 - 230  
mg/l, 96 h, static test, OECD Test Guideline 203Toxicity to daphnia and other  
aquatic invertebrates : EC50 (Daphnia magna): 370 mg/l, 48 h, static test, OECD  
Test Guideline 202

Toxicity to algae : No data available

**12.2 Persistence and degradability****Product:**

Biodegradability : Readily biodegradable., OECD 301D / EEC 84/449 C6

Chemical Oxygen Demand  
(COD) : ca. 7.929 mg/l , 1 % solution**Components:**

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### **Ethanol:**

Biodegradability : Readily biodegradable.

### **Alkyl-polyethylen-glycolpolypropylen-glycolether:**

Biodegradability : biodegradable

## **12.3 Bioaccumulative potential**

### **Components:**

#### **Succindialdehyde:**

Bioaccumulation : No data available

#### **Dimethoxytetrahydrofurane:**

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

#### **Ethanol:**

Bioaccumulation : Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -0,14, calculated

#### **Methanol:**

Bioaccumulation : Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: -0,77

#### **Alkyl-polyethylen-glycolpolypropylen-glycolether:**

Bioaccumulation : not determined

#### **2-(2-hexyloxy-ethoxy)ethanol:**

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

## **12.4 Mobility in soil**

### **Components:**

#### **Succindialdehyde:**

Mobility : No data available

#### **Dimethoxytetrahydrofurane:**

Mobility : No data available

#### **Ethanol:**

Mobility : No data available

#### **Methanol:**

Mobility : No data available

#### **Alkyl-polyethylen-glycolpolypropylen-glycolether:**

Mobility : not determined

#### **2-(2-hexyloxy-ethoxy)ethanol:**

Mobility : Mobile in soils

## **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.

## **12.6 Other adverse effects**

### **Product:**

Additional ecological information : none

## **SECTION 13: Disposal considerations**

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### **13.1 Waste treatment methods**

- |   |   |  |
|---|---|--|
| Product                                 | : | Dispose of the product according to the defined EWC (European Waste Code) No.                                    |
| Contaminated packaging                  | : | Take empty packaging to the recycling plant.   |
| Waste key for the unused product        | : | European waste catalog (EWC) 070601  |
| Waste key for the unused product(Group) | : | Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products. |

## **SECTION 14: Transport information**

### **14.1 UN number**

Not regulated as a dangerous good

### **14.2 UN proper shipping name**

Not regulated as a dangerous good

### **14.3 Transport hazard class(es)**

Not regulated as a dangerous good

### **14.4 Packing group**

Not regulated as a dangerous good

### **14.5 Environmental hazards**

Not regulated as a dangerous good

### **14.6 Special precautions for user**

Not classified as supporting combustion according to the 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**

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : 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. : Not applicable

Volatile organic compounds : Volatile organic compounds (VOC) content: 18 %, Directive 2010/75/EC on the limitation of emissions of volatile organic compounds

Other regulations : Take note of Dir 94/33/EC on the protection of young people at work. Take note of Dir 92/85/EEC on the safety and health

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at work of pregnant workers.

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work. Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values. Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products

**15.2 Chemical safety assessment**

Exempt

**SECTION 16: Other information****Full text of H-Statements**

H225	: Highly flammable liquid and vapour.
H226	: Flammable liquid and vapour.
H301	: Toxic if swallowed.
H311	: Toxic in contact with skin.
H312	: Harmful in contact with skin.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H331	: Toxic if inhaled.
H335	: May cause respiratory irritation.
H370	: Causes damage to organs.

**Full text of other abbreviations**

Acute Tox.	: Acute toxicity
Eye Dam.	: Serious eye damage
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 - 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 Develop-

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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ment; 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; 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

### **Further information**

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) No. 1272/2008

Eye Dam. 1, H318	: Calculation method
Acute Tox. 4, H332	: Calculation method
STOT SE 2, H371	: Calculation method

Changes compared with the previous edition!!!

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