

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

schülke 

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

Version
04.01

Revision Date:
26.11.2018

Date of last issue: 19.07.2018
Date of first issue: 11.01.2008

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

Supplier : Schülke & Mayr UK Ltd.
Cygnet House
1, Jenkin Road, Meadowhall

Sheffield S9 1AT
United Kingdom
Telephone: +44 114 254 35 00
Telefax: +44 114 254 35 01
mail.uk@schulke.com

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

1.4 Emergency telephone number

Emergency telephone num-
ber : UK Poisons Emergency number: 0870 600 6266

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 H302: Harmful if swallowed.

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Acute toxicity, Category 4

H332: Harmful if inhaled.

Specific target organ toxicity - single exposure, Category 2

H371: May cause damage to organs.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H318 Causes serious eye damage.
H302 + H332 Harmful if swallowed or if inhaled.
H371 May cause damage to organs.

Precautionary statements

:

P260 Do not breathe vapours.
P280 Wear eye protection/ face protection.
P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

Reaction product of DMO-THF, ethanol and water

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.

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SECTION 3: Composition/information on ingredients**3.2 Mixtures**

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

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Reaction product of DMO-THF, ethanol and water	- - - - - - - - - 01-2120763992-41- 0000	Acute Tox. 4; H302 Eye Irrit. 2; H319 Acute Tox. 4; H332 STOT SE 2; H371	93.9
Alkyl-polyethylen- glycolpolypropylen-glycolether	127036-24-2 Polymer - - - - - -	Eye Dam. 1; H318	1 - 5
2-(2-hexyloxy-ethoxy)ethanol	112-59-4 203-988-3 603-175-00-7 01-2119945815-28- XXXX	Acute Tox. 4; H312 Eye Dam. 1; H318	1 - 5

For explanation of abbreviations see section 16.

Other information

REACTION PRODUCT OF DMO-THF, CORRESPONDS TO Succindialdehyde (638-37-9), 2,5- Di-methoxytetrahydrofuran (696-59-3), Ethanol (64-17-5), Methanol (67-56-1), water (7732-18-5)

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 im-
mediately with plenty of water, also under the eyelids, for at least
15 minutes.
If eye irritation persists, consult a specialist.

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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 (CO₂)

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : No information available.

Hazardous combustion products : Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x)

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,

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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. Wash thoroughly after handling.

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. Keep away from food and drink.

7.3 Specific end use(s)

- Specific use(s) : none

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Ethanol	64-17-5	Permissible exposure limit	1,000 ppm 1,920 mg/m ³	United Kingdom. Workplace Exposure Limits (EH40/2005): Table 1:
Methanol	67-56-1	Short term exposure limit	250 ppm 333 mg/m ³	United Kingdom. Workplace Exposure Limits (EH40/2005): Table 1:

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		Permissible exposure limit	200 ppm 266 mg/m ³	United Kingdom. Workplace Exposure Limits (EH40/2005): Table 1:
		Permissible exposure limit	200 ppm 260 mg/m ³	EU. Council Directive 98/24/EC Annex III

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Reaction product of DMO-THF, ethanol and water	Workers	Inhalation	Acute local effects	520 mg/m ³
	Workers	Inhalation	Long-term local effects	260 mg/m ³
	Workers	Inhalation	Acute systemic effects	520 mg/m ³
	Workers	Inhalation	Long-term systemic effects	260 mg/m ³
	Workers	Skin contact	Acute systemic effects	40 mg/kg
	Workers	Skin contact	Long-term systemic effects	40 mg/kg
2-(2-hexyloxy-ethoxy)ethanol	Workers	Skin contact	Long-term systemic effects	50 mg/kg
	Workers	Inhalation	Long-term systemic effects	16.3 mg/m ³

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

Substance name	Environmental Compartment	Value
Reaction product of DMO-THF, ethanol and water	Fresh water	0.011 mg/l
	Marine water	0.0011 mg/l
	Effects on waste water treatment plants	25 mg/l
	Fresh water sediment	1 mg/kg
	Marine sediment	0.1 mg/kg
	Soil	1 mg/kg
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	10 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

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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.
Respiratory protection	:	No personal respiratory protective equipment normally required. Ensure adequate ventilation, especially in confined areas. This should be achieved by a good general extraction and -if practically feasible- by the use of a local exhaust ventilation.
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	:	ca. -24 °C Method: Bridging principle "Substantially similar mixtures".
Decomposition temperature	:	No data available
Boiling point/boiling range	:	ca. 90 °C
Flash point	:	38.5 °C Method: DIN 51755 Part 1
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower	:	No data available

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flammability limit

Vapour pressure : ca. 39 hPa (20 °C)
Method: Bridging principle "Substantially similar mixtures".

Vapour density : No data available

Relative density : ca. 1.01 g/cm³ (20 °C)

Solubility(ies)
Water solubility : in all proportions (20 °C)

Partition coefficient: n-
octanol/water : Not applicable

Auto-ignition temperature : ca. 455 °C
Method: Bridging principle "Substantially similar mixtures".

Viscosity
Viscosity, dynamic : No data available

Explosive properties : Not explosive
Method: Bridging principle "Substantially similar mixtures".

Oxidizing properties :
Method: Bridging principle "Substantially similar mixtures".
The substance or mixture is not classified as oxidizing.

9.2 Other information

Flammability (liquids) : Does not sustain combustion.

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

Hazardous reactions : None reasonably foreseeable.

10.4 Conditions to avoid

Conditions to avoid : Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Materials to avoid : Strong acids and strong bases

10.6 Hazardous decomposition products

None reasonably foreseeable.

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SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Product:**

- Acute oral toxicity : LD50 (Rat): 300 - 2,000 mg/kg
Assessment: Harmful if swallowed.
Remarks: The following toxicological data shown are those obtained from tests on products of similar composition.
- Acute inhalation toxicity : LC50 (Rat): 2 mg/l
Method: OECD Test Guideline 436
Assessment: Harmful if inhaled.
Remarks: The toxicological data has been taken from products of similar composition.
- Acute dermal toxicity : Acute toxicity estimate: > 3,000 mg/kg
- Acute toxicity (other routes of administration) : LD50 intravenous (Rat): 363 mg/kg
Remarks: The following toxicological data shown are those obtained from tests on products of similar composition.

Components:**Reaction product of DMO-THF, ethanol and water:**

- Acute oral toxicity : LD50 (Rat): 300 - 2,000 mg/kg
Assessment: Harmful if swallowed.
Remarks: The toxicological data has been taken from products of similar composition.
- Acute inhalation toxicity : LC50 (Rat): 2 mg/l
Method: OECD Test Guideline 436
Assessment: Harmful if inhaled.
- Acute dermal toxicity : Remarks: No data available

Alkyl-polyethylen-glycolpolypropylen-glycolether:

- Acute oral toxicity : LD50: > 2,000 mg/kg
Method: OECD Test Guideline 401
- Acute inhalation toxicity : Remarks: No data available
- Acute dermal toxicity : Remarks: No data available

2-(2-hexyloxy-ethoxy)ethanol:

- Acute oral toxicity : LD50 (Rat): 3,487 mg/kg
- Acute inhalation toxicity : LC0 (Rat): Exposure time: 8 h
Test atmosphere: vapour
Remarks: Due to the viscosity, this product does not present

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an aspiration hazard.

Acute dermal toxicity : LD50 (Rabbit): 2,001 - 2,216 mg/kg

Skin corrosion/irritation

Components:

Reaction product of DMO-THF, ethanol and water:

Result	: No skin irritation
Remarks	: The toxicological data has been taken from products of similar composition.

Alkyl-polyethylen-glycolpolypropylen-glycolether:

Species	: Rabbit
Result	: No skin irritation

2-(2-hexyloxy-ethoxy)ethanol:

Result	: Skin irritation
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Serious eye damage/eye irritation

Product:

Method	: Calculation method
Result	: Causes serious eye damage.

Components:

Reaction product of DMO-THF, ethanol and water:

Result	: Causes serious eye damage.
Remarks	: The toxicological data has been taken from products of similar composition.

Alkyl-polyethylen-glycolpolypropylen-glycolether:

Species	: Rabbit
Result	: Risk of serious damage to eyes.

2-(2-hexyloxy-ethoxy)ethanol:

Result	: Causes serious eye damage.
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Respiratory or skin sensitisation

Product:

Species	: Guinea pig
Result	: Did not cause sensitisation on laboratory animals.
Remarks	: The toxicological data has been taken from products of similar composition.

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Species : Guinea pig
Result : Did not cause sensitisation on laboratory animals.
Remarks : The toxicological data has been taken from products of similar composition.

Alkyl-polyethylen-glycolpolypropylen-glycolether:

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

2-(2-hexyloxy-ethoxy)ethanol:

Species : Mouse
Result : Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity**Product:**

Genotoxicity in vitro : Method: OECD Test Guideline 471
Result: Not mutagenic in Ames Test

Method: OECD Test Guideline 476
Result: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Remarks: The toxicological data has been taken from products of similar composition.

Components:**Reaction product of DMO-THF, ethanol and water:**

Genotoxicity in vitro : Method: OECD Test Guideline 471
Result: Not mutagenic in Ames Test

Method: OECD Test Guideline 476
Result: Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

Alkyl-polyethylen-glycolpolypropylen-glycolether:

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

2-(2-hexyloxy-ethoxy)ethanol:

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

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

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assessment

Carcinogenicity

Components:

Reaction product of DMO-THF, ethanol and water:

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:

Reaction product of DMO-THF, ethanol and water:

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:

Exposure routes : Inhalation, Ingestion
Assessment : May cause damage to organs.
Remarks : The toxicological data has been taken from products of similar composition.

Components:

Reaction product of DMO-THF, ethanol and water:

Exposure routes : Inhalation, Ingestion
Assessment : May cause damage to organs.
Remarks : The toxicological data has been taken from products of similar composition.

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Alkyl-polyethylen-glycolpolypropylen-glycolether:

Remarks : No data available

2-(2-hexyloxy-ethoxy)ethanol:

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

STOT - repeated exposure**Components:****Reaction product of DMO-THF, ethanol and water:**

Remarks : No data available

Alkyl-polyethylen-glycolpolypropylen-glycolether:

Remarks : No data available

2-(2-hexyloxy-ethoxy)ethanol:

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

Aspiration toxicity

No data available

SECTION 12: Ecological information**12.1 Toxicity****Components:****Reaction product of DMO-THF, ethanol and water:**

Toxicity to fish	: LC50 (Danio rerio (zebra fish)): 48.32 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
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Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 12.96 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
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Toxicity to algae	: EC50 (Desmodesmus subspicatus (green algae)): 10.81 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
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Alkyl-polyethylen-glycolpolypropylen-glycolether:

Toxicity to fish	: LC50 (Danio rerio (zebra fish)): 1 - 10 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
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Toxicity to daphnia and other aquatic invertebrates	: Remarks: not determined
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Toxicity to algae	: Remarks: not determined
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2-(2-hexyloxy-ethoxy)ethanol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 200 - 230 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 370 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae : Remarks: No data available

12.2 Persistence and degradability**Product:**

Biodegradability : Result: Readily biodegradable.
Method: OECD 301D / EEC 84/449 C6
Remarks: Information given is based on data on the components and the ecotoxicology of similar products.

Components:**Reaction product of DMO-THF, ethanol and water:**

Biodegradability : Result: Readily biodegradable.
Method: OECD 301D / EEC 84/449 C6
Remarks: Information given is based on data on the components and the ecotoxicology of similar products.

Alkyl-polyethylen-glycolpolypropylen-glycolether:

Biodegradability : Result: Biodegradable

2-(2-hexyloxy-ethoxy)ethanol:

Biodegradability : Result: Readily biodegradable.
Method: OECD 301B/ ISO 9439/ EEC 84/449 C5

12.3 Bioaccumulative potential**Components:****Reaction product of DMO-THF, ethanol and water:**

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

Alkyl-polyethylen-glycolpolypropylen-glycolether:

Bioaccumulation : Remarks: not determined

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2-(2-hexyloxy-ethoxy)ethanol:

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

12.4 Mobility in soil

Components:

Reaction product of DMO-THF, ethanol and water:

Mobility : Remarks: No data available

Alkyl-polyethylen-glycolpolypropylen-glycolether:

Mobility : Remarks: not determined

2-(2-hexyloxy-ethoxy)ethanol:

Mobility : Remarks: 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

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.

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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

Remarks : 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 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 applicableVolatile 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 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.

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Exempt

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

H302 : Harmful if swallowed.
 H312 : Harmful in contact with skin.
 H318 : Causes serious eye damage.
 H319 : Causes serious eye irritation.
 H332 : Harmful if inhaled.
 H371 : May cause damage to organs if inhaled.

Full text of other abbreviations

Acute Tox. : Acute toxicity
 Eye Dam. : Serious eye damage
 Eye Irrit. : Eye irritation
 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 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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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Version	Revision Date:	Date of last issue: 19.07.2018
04.01	26.11.2018	Date of first issue: 11.01.2008

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, H302	: Calculation method
Acute Tox. 4, H332	: Calculation method
STOT SE 2, H371	: Calculation method

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

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