

gigasept® AF **No Change Service!**

Version 04.00 Revision Date 08.05.2015

Date of last issue 20.06.2013

Date of first issue 08.01.2008

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name : gigasept® AF

1.2 Relevant identified uses of the substance or mixture and uses advised againstUse of the Sub- : Disinfectants
stance/MixtureRecommended restrictions : Restricted to professional users.
on use**1.3 Details of the supplier of the safety data sheet**Producer/Supplier : Schülke & Mayr AG
Sihlfeldstr. 58
8003 Zürich
Switzerland
Telephone: +41444665544
Telefax: +41444665533
mail.ch@schuelke.com
www.schuelke.comContact person : Application Department HI
+49 (0)40/ 521 00 544
ADHI@schuelke.com
(Schülke & Mayr UK Ltd.: +44-1142543500)**1.4 Emergency telephone number**Emergency telephone num- : UK Poisons Emergency number: 0870 600 6266
ber
Emergency telephone num- : +41444665544
ber : +49 (0)40 / 52 100 -0**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin corrosion, Category 1B	H314: Causes severe skin burns and eye damage.
Acute aquatic toxicity, Category 1	H400: Very toxic to aquatic life.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Harmful	R22: Harmful if swallowed.
Corrosive	R34: Causes burns.
Dangerous for the environment	R50: Very toxic to aquatic organisms.

2.2 Label elements**|| Labelling (REGULATION (EC) No 1272/2008)**

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

: P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301+P310+P330 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P303+P361+P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P305+P351+P338+P310 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 or doctor/ physician.
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

7173-51-5 Didecyldimethyl-ammonium chloride
139734-65-9 Glycine, aminoalkyl derivs.

Special labelling of certain mixtures : Labelling according to Regulation (EC) No. 648/2004: (15 - 30 % non-ionic surfactants,, perfumes)

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 mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). No special risks known.

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.	Classification (67/548/EEC)	Classification (REGULATION (EC) No	Concentration (%)
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	Registration number		1272/2008)	
Didecylmethylammonium chloride	612-131-00-6 7173-51-5 230-525-2	Xn; R22 C; R34 N; R50	Acute Tox. 3; H301 Skin Corr. 1B; H314 Aquatic Acute 1; H400	15 %
Glycine, aminoalkyl derivs.	139734-65-9 284-065-2	Xn; R22 C; R34 N; R50	Acute Tox. 4; H302 Skin Corr. 1C; H314 Aquatic Acute 1; H400	6,9 %
Tridecylpolyethylenglycolether	69011-36-5 Polymer	Xn; R22 Xi; R41	Acute Tox. 4; H302 Eye Dam. 1; H318	15 - 30 %
2- Propanol	603-117-00-0 67-63-0 200-661-7 01- 2119457558- 25-XXXX	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	3 - 8 %
N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine	2372-82-9 219-145-8 01- 2119980592- 29-xxxx	Xn; R22 Xn; R48/22 C; R35 N; R50	Acute Tox. 3; H301 Skin Corr. 1B; H314 STOT RE 2; H373 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 5 %
Diethyleneglycol	603-140-00-6 111-46-6 203-872-2	Xn; R22	Acute Tox. 4; H302	< 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.
- 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. Obtain medical attention.
- If swallowed : Do NOT induce vomiting. Rinse mouth with water. Give small amounts of water to drink. Obtain medical attention.

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

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Information Service.

SECTION 5: Firefighting measures**5.1 Extinguishing media**Suitable extinguishing media : Water, Dry powder, Foam, Carbon dioxide (CO₂)

Unsuitable extinguishing media : No information available.

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 : Fire may cause evolution of: 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 : Increased risk of slipping in the presence of leaked / spilled product.

6.2 Environmental precautions

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

6.3 Methods and material for containment and cleaning upMethods 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 : Prepare the working solution as given on the label(s) and/or the user instructions.

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

Hygiene measures : Keep away from food and drink.

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7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Store at room temperature in the original container.
- Further information on storage conditions : Keep container tightly closed. Keep away from direct sunlight.
- 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****Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2- Propanol	67-63-0	WEL	400 ppm 999 mg/m ³	HSE
2- Propanol	67-63-0	WEL	500 ppm 1.250 mg/m ³	HSE

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

- 2- Propanol : End Use: Workers, Exposure routes: Skin contact, Potential health effects: Chronic effects, Value: 888 mg/m³
End Use: Workers, Exposure routes: Inhalation, Potential health effects: Chronic effects, Value: 500 mg/m³
- N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine : End Use: Workers, Exposure routes: Inhalation, Potential health effects: Long-term systemic effects, Value: 2,35 mg/m³

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

- 2- Propanol : Fresh water, Value: 140,9 mg/l
Marine water, Value: 140,9 mg/l
Fresh water sediment, Value: 552 mg/kg
Marine sediment, Value: 552 mg/kg
Soil, Value: 28 mg/kg
- N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine : Fresh water, Value: 0,001 mg/l
Marine water, Value: 0,0001 mg/l
Fresh water sediment, Value: 8,5 mg/l
Marine sediment, Value: 0,85 mg/l
Soil, Value: 45,34 mg/l

8.2 Exposure controls**Engineering measures**

Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

- Eye protection : Safety glasses with side-shields conforming to EN166
- Hand protection : Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0,11 mm) made by KCL or gloves

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from other manufacturers offering the same protection. Prolonged contact: 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.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance	: liquid
Colour	: green
Odour	: pleasant
II Odour Threshold	: not determined
Flash point	: 45 °C, DIN 51755 Part 1
Ignition temperature	: 2- Propanol: 425 °C
Auto-ignition temperature	: Not applicable
Lower explosion limit	: 2 %(V)Raw material literature value
Upper explosion limit	: 12 %(V)Raw material literature value
Flammability	: Does not sustain combustion.
Explosive properties	: Not explosive
Oxidizing properties	: Not applicable
pH	: ca. 9,0, 20 °C, concentrate
Melting point/freezing point	: < -5 °C
Decomposition temperature	: Not applicable
Boiling point/boiling range	: ca. 80 °C,
Vapour pressure	: ca. 34 hPa, 20 °C,
Relative vapour density	: No data available
Density	: ca. 1,00 g/cm ³ , 20 °C
Water solubility	: completely soluble, 20 °C
Partition coefficient: n-octanol/water	: Not applicable
Viscosity, dynamic	: not determined
Evaporation rate	: 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.

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10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Protect from frost, heat and sunlight.

10.5 Incompatible materials

Do not mix with other products.

10.6 Hazardous decomposition products

None reasonably foreseeable.

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

Acute oral toxicity	: Acute toxicity estimate: 760 mg/kg, Estimation of acute oral toxicity, in accordance with the calculation methode presented in the GHS (Globally Harmonized System), Part 3, Chapter 3.1), Harmful if swallowed.
Acute inhalation toxicity	: Acute toxicity estimate: 49,9 mg/l, in accordance with the calculation methode presented in the GHS (Globally Harmonized System), Part 3, Chapter 3.1)
Acute dermal toxicity	: Acute toxicity estimate: > 5000 mg/kg, in accordance with the calculation methode presented in the GHS (Globally Harmonized System), Part 3, Chapter 3.1)

Skin corrosion/irritation**Product**

|| Causes severe skin burns and eye damage., Calculation method

Serious eye damage/eye irritation**Product**

|| Causes severe skin burns and eye damage., Calculation method

Respiratory or skin sensitisation**Components:****Didecyldimethyl-ammonium chloride:**

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

Glycine, aminoalkyl derivs.:

No data available

Tridecylpolyethylenglycolether:

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

2- Propanol:

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

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine:

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

Germ cell mutagenicity**Components:****Didecyldimethyl-ammonium chloride:**

Genotoxicity in vitro : Not mutagenic in Ames Test

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Genotoxicity in vivo : negative, Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis), Rat

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

Glycine, aminoalkyl derivs.:

Genotoxicity in vitro : No data available

Genotoxicity in vivo : No data available

Germ cell mutagenicity- Assessment : No data available

Tridecylpolyethylenglycolether:

Genotoxicity in vitro : Not mutagenic in Ames Test

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

2- Propanol:

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

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine:

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

Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

Carcinogenicity**Components:****Didecyldimethyl-ammonium chloride:**

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

Glycine, aminoalkyl derivs.:

Carcinogenicity - Assessment : No data available

Tridecylpolyethylenglycolether:

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

2- Propanol:

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

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine:

Carcinogenicity - Assessment : No data available

Reproductive toxicity**Components:****Didecyldimethyl-ammonium chloride:**

Reproductive toxicity - Assessment : No data available

Teratogenicity - Assessment : No data available

Glycine, aminoalkyl derivs.:

Reproductive toxicity - Assessment : No data available

Teratogenicity - Assessment : No data available

Tridecylpolyethylenglycolether:

Effects on fertility : Two-generation study, Rat, NOAEL: > 250 mg/kg, F1: > 250 mg/kg, F2: > 250 mg/kg

Effects on foetal development : Rat, Oral, NOAEL: > 50 mg/kg, NOAEL: 50 mg/kg
Rat, Dermal, NOAEL: > 250 mg/kg, NOAEL: 250 mg/kg

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

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essment

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

2- Propanol:

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

Teratogenicity - Assessment : Ingestion of excessive amounts by pregnant animals resulted in maternal and foetal toxicity.

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine:

Reproductive toxicity - Assessment : No toxicity to reproduction

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

STOT - single exposureComponents:**Didecyldimethyl-ammonium chloride:**

|| No data available

Tridecylpolyethylenglycolether:

|| The substance or mixture is not classified as specific target organ toxicant, single exposure.

2- Propanol:

|| May cause drowsiness or dizziness.

STOT - repeated exposureComponents:**Didecyldimethyl-ammonium chloride:**

|| No data available

Tridecylpolyethylenglycolether:

|| The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

2- Propanol:

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

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine:

Kidney, May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicityComponents:**N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine:**

Rat: NOAEL: 9 mg/kg, Oral, Exposure time: 90

Aspiration toxicity

No data available

Further informationProduct

No data is available on the product itself.

SECTION 12: Ecological information**12.1 Toxicity**Product

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,45 mg/l, 48 h, Analytical monitoring: yes, OECD Test Guideline 202, GLP: yes

Ecotoxicology Assessment

|| Acute aquatic toxicity : Very toxic to aquatic life.

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||Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.**12.2 Persistence and degradability****Product**Biodegradability : Readily biodegradable, according to appropriate OECD test.
OECD 301D / EEC 84/449 C6Chemical Oxygen Demand : ca. 14.000 mg/l, 1% solution
(COD)**Components:****Didecyldimethyl-ammonium chloride:**Biodegradability : Readily biodegradable OECD 301B/ ISO 9439/ EEC 84/449
C5**Tridecylpolyethylenglycolether:**Biodegradability : Readily biodegradable OECD 301B/ ISO 9439/ EEC 84/449
C5**2- Propanol:**

Biodegradability : Readily biodegradable

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine:Biodegradability : rapidly biodegradable 79 o/o, 28 d, OECD Test Guideline
301D**12.3 Bioaccumulative potential****Product**Partition coefficient: n- : Not applicable
octanol/water**Components:****Didecyldimethyl-ammonium chloride:**Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish), 46 d, Bio-
concentration factor (BCF): 81**Glycine, aminoalkyl derivs.:**

Bioaccumulation : No data available

Tridecylpolyethylenglycolether:

Bioaccumulation : Bioaccumulation is unlikely.

2- Propanol:

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

Partition coefficient: n- : log Pow: 0,05 (20 °C) , OECD Test Guideline 107
octanol/water**N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine:**

Bioaccumulation : No data available

Partition coefficient: n- : log Pow: -0,7
octanol/water**12.4 Mobility in soil****Components:****Didecyldimethyl-ammonium chloride:**

Mobility : Mobile in soils

Glycine, aminoalkyl derivs.:

Mobility : No data available

Tridecylpolyethylenglycolether:

Mobility : The product evaporates slowly. Adsorbs on soil.

2- Propanol:

Mobility : Mobile in soils

N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine:

Mobility : After release, adsorbs onto soil.

12.5 Results of PBT and vPvB assessment

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Product

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT).

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.

SECTION 14: Transport information**14.1 UN number**

ADR : UN 1903

IMDG : UN 1903

IATA : UN 1903

14.2 UN proper shipping name

ADR : DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(Didecyldimethyl-ammonium chloride, N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine)

IMDG : DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
(Didecyldimethyl-ammonium chloride, N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine)

IATA : Disinfectant, liquid, corrosive, n.o.s.
(Didecyldimethyl-ammonium chloride, N-(3-Aminopropyl)-N-dodecylpropane-1,3-diamine)

14.3 Transport hazard class(es)

ADR : 8

IMDG : 8

IATA : 8

14.4 Packing group

ADR
Packing group : III

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Classification Code : C9
Hazard Identification Number : 80
Labels : 8 + (N)
Tunnel restriction code : E

IMDG

Packing group : III
Labels : 8 + (N)
EmS Code : F-A, S-B

IATA

Packing instruction (cargo aircraft) : 856
Packing group : III
Labels : 8 + (N)

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

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

Legislation on the control of major-accident hazards involving dangerous substances : The product belongs to at least one of the categories 1 through 11 mentioned in Annex 1 of the Directive 1996/82/EC concerning the control of major accident hazards.

Volatile organic compounds : 6 %, Directive 2010/75/EU on the limitation of emissions of volatile organic compounds

Other regulations : The surfactant(s) contained in this mixture complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

15.2 Chemical Safety Assessment

Exempt

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SECTION 16: Other information**Full text of R-Phrases**

R11	: Highly flammable.
R22	: Harmful if swallowed.
R34	: Causes burns.
R35	: Causes severe burns.
R36	: Irritating to eyes.
R41	: Risk of serious damage to eyes.
R48/22	: Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50	: Very toxic to aquatic organisms.
R67	: Vapours may cause drowsiness and dizziness.

Full text of H-Statements

H225	: Highly flammable liquid and vapour.
H301	: Toxic if swallowed.
H302	: Harmful if swallowed.
H314	: Causes severe skin burns and eye damage.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H336	: May cause drowsiness or dizziness.
H373	: May cause damage to organs through prolonged or repeated exposure if swallowed.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Eye Dam.	Serious eye damage
Eye Irrit.	Eye irritation
Flam. Liq.	Flammable liquids
Skin Corr.	Skin corrosion
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure

Further information

Changes compared with the previous edition!!!

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.