

# SAFETY DATA SHEET

according to the Globally Harmonized System

## Korsolex extra

Version 4.0	Revision Date: 17.02.2025	SDS Number: R12058	Date of last issue: - Date of first issue: 17.02.2025
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### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Manufacturer or supplier's details

Manufacturer : BODE Chemie GmbH  
Melanchthonstraße 27  
22525 Hamburg (Germany)  
Tel.: +49 (0)40 / 54 00 60

Supplier :

Responsible Department : Scientific Affairs  
sds@bode-chemie.de

Emergency telephone number : Poison Center Göttingen  
24h-Phone +49 (0)551 / 1 92 40

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

Recommended use : In-door use  
medical device  
For further information, refer to the product technical data sheet.

Restrictions on use : Restricted to professional users.

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 3

Skin corrosion/irritation : Sub-category 1B

Serious eye damage/eye irritation : Category 1

Respiratory sensitisation : Category 1

Skin sensitisation : Category 1

Germ cell mutagenicity : Category 2

Short-term (acute) aquatic hazard : Category 1

Carcinogenicity : Category 1B

Long-term (chronic) aquatic hazard : Category 2

#### GHS label elements

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Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H331 Toxic if inhaled.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H341 Suspected of causing genetic defects.  
H350 May cause cancer.  
H400 Very toxic to aquatic life.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

: P201 Obtain special instructions before use.

### Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.  
P284 Wear respiratory protection.

### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water or shower.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
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/ doctor.  
P308 + P313 IF exposed or concerned: Get medical advice/ attention.

### Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Other hazards which do not result in classification

None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Glutaral	111-30-8	>= 5 - < 10
(ethylenedioxy)dimethanol	3586-55-8	>= 3 - < 10
Formaldehyde	50-00-0	>= 5 - < 10
Propan-2-ol	67-63-0	>= 1 - < 10
Tridecanol, branched, ethoxylated	69011-36-5	>= 3 - < 10
Octan-1-ol, ethoxylated	27252-75-1	>= 3 - < 5

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[[[(2-hydroxyethyl)imino]bis(methylene)]bisphosphonic acid	Not Assigned	$\geq 1 - < 2,5$
Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18))	68391-01-5	$\geq 1 - < 2,5$
Didecyltrimethylammonium chloride	7173-51-5	$\geq 1 - < 2,5$
N-(2-ethylhexyl)-3,5,5-trimethylhexanamide	1700656-13-8	$\geq 0,25 - < 1$

### 4. FIRST AID MEASURES

General advice	:	Call a physician immediately.
If inhaled	:	If breathed in, move person into fresh air.
In case of skin contact	:	Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water.
In case of eye contact	:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If swallowed	:	Rinse mouth. Do NOT induce vomiting.
Most important symptoms and effects, both acute and delayed	:	Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. Toxic if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Suspected of causing genetic defects. May cause cancer. Causes severe burns. Corrosive to the respiratory tract.
Notes to physician	:	Keep under medical supervision for at least 48 hours. For specialist advice physicians should contact the Poisons Information Service.

### 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction.
Hazardous combustion products	:	No hazardous combustion products are known
Specific extinguishing methods	:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	:	Use personal protective equipment. In the event of fire, wear self-contained breathing apparatus.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Ensure adequate ventilation. Wear respiratory protection.
Environmental precautions	:	Should not be released into the environment.
Methods and materials for containment and cleaning	:	Clean-up methods - large spillage

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tainment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Clean-up methods - small spillage  
Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

### 7. HANDLING AND STORAGE

Advice on safe handling : Prepare the working solution as given on the label(s) and/or the user instructions.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Avoid contact with skin and eyes.

Conditions for safe storage : Store in original container.  
Keep tightly closed.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Glutaral	111-30-8	C	0,05 ppm	ACGIH
Formaldehyde	50-00-0	TWA	0,1 ppm	ACGIH
		STEL	0,3 ppm	ACGIH
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH

#### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Formaldehyde	50-00-0	TWA	0,1 ppm	ACGIH
		STEL	0,3 ppm	ACGIH

#### 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 workweek	40 mg/l	ACGIH BEI

#### Personal protective equipment

Respiratory protection : Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).

Filter type : Combined inorganic gas/vapour and organic vapour type

Hand protection

Nitrile rubber Material : Protective gloves complying with EN 374.

Break through time : > 480 min

Glove thickness : 0,1 mm

Protective index : Class 6

: Peha-soft nitrile guard

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

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- Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
Work uniform or laboratory coat.  
Remove and wash contaminated clothing before re-use.
- Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
Keep away from food and drink.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : blue
- Odour : stinging
- pH : 4 (20 °C)
- Boiling point/boiling range : 100 °C
- Flash point : 46 °C  
Method: DIN 51755 Part 1
- Vapour pressure : No data available
- Density : 1,045 g/cm<sup>3</sup> (20 °C)
- Solubility(ies)  
Water solubility : soluble

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### 10. STABILITY AND REACTIVITY

- Reactivity : No decomposition if stored and applied as directed.
- Chemical stability : The product is chemically stable.
- Possibility of hazardous reactions : None reasonably foreseeable.
- Conditions to avoid : Heat  
Strong sunlight for prolonged periods.
- Incompatible materials : Amines  
Anionic surfactants
- Hazardous decomposition products : Formaldehyde (CAS: 50-00-0)

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### 11. TOXICOLOGICAL INFORMATION

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### Acute toxicity

Harmful if swallowed.

Toxic if inhaled.

### Product:

- Acute oral toxicity : Acute toxicity estimate: 1.155 mg/kg  
Method: Calculation method
- Acute inhalation toxicity : Acute toxicity estimate: 0,5663 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method
- Acute dermal toxicity : Acute toxicity estimate: > 5.000 mg/kg  
Method: Calculation method

### Components:

#### **Glutaral (CAS: 111-30-8):**

- Acute oral toxicity : LD50 Oral (Rat): 154 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat, female): 0,28 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
Assessment: Corrosive to the respiratory tract.
- Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg  
Method: OECD Test Guideline 402

#### **(ethylenedioxy)dimethanol (CAS: 3586-55-8):**

- Acute oral toxicity : LD50 Oral (Rat, female): 760 mg/kg
- Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg

#### **Formaldehyde (CAS: 50-00-0):**

- Acute oral toxicity : Acute toxicity estimate: 500 mg/kg
- Acute inhalation toxicity : Acute toxicity estimate: 100 ppm  
Test atmosphere: gas

#### **Propan-2-ol (CAS: 67-63-0):**

- Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg
- Acute inhalation toxicity : LC50 (Rat): > 10000 ppm  
Exposure time: 6 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403
- Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

#### **Tridecanol, branched, ethoxylated (CAS: 69011-36-5):**

- Acute oral toxicity : LD50 Oral (Rat): 2.000 mg/kg  
Method: OECD Test Guideline 401
- Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg  
Method: Expert judgement

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### Octan-1-ol, ethoxylated (CAS: 27252-75-1):

Acute oral toxicity : LD50 Oral: > 2.000 mg/kg  
Method: Calculation method

### [[[(2-hydroxyethyl)imino]bis(methylene)]bisphosphonic acid:

Acute oral toxicity : LD50 Oral (Rat): 250 mg/kg

### Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18)) (CAS: 68391-01-5):

Acute oral toxicity : LD50 Oral (Rat): 344 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 3.412 mg/kg

### Didecyldimethylammonium chloride (CAS: 7173-51-5):

Acute oral toxicity : LD50 Oral (Rat): 238 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 3.342 mg/kg

### Skin corrosion/irritation

Causes severe burns.

### Components:

#### Glutaral (CAS: 111-30-8):

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Corrosive

#### (ethylenedioxy)dimethanol (CAS: 3586-55-8):

Result : Skin irritation

#### Formaldehyde (CAS: 50-00-0):

Result : Causes burns.

#### Propan-2-ol (CAS: 67-63-0):

Species : Rabbit  
Result : No skin irritation

#### Tridecanol, branched, ethoxylated (CAS: 69011-36-5):

Species : Rabbit  
Result : No skin irritation

#### Octan-1-ol, ethoxylated (CAS: 27252-75-1):

Result : Causes burns.

### [[[(2-hydroxyethyl)imino]bis(methylene)]bisphosphonic acid:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : Causes burns.

### Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18)) (CAS: 68391-01-5):

Species : Rabbit

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Result : Corrosive after 1 to 4 hours of exposure

### **Didecyldimethylammonium chloride (CAS: 7173-51-5):**

Species : Rabbit  
Exposure time : 3 min  
Method : OECD Test Guideline 404  
Result : Corrosive after 3 minutes or less of exposure

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

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

Causes serious eye damage.

#### **Components:**

### **(ethylenedioxy)dimethanol (CAS: 3586-55-8):**

Result : Risk of serious damage to eyes.

### **Propan-2-ol (CAS: 67-63-0):**

Species : Rabbit  
Result : Eye irritation

### **Tridecanol, branched, ethoxylated (CAS: 69011-36-5):**

Species : Rabbit  
Method : OECD Test Guideline 437  
Result : Risk of serious damage to eyes.

### **[[[(2-hydroxyethyl)imino]bis(methylene)]bisphosphonic acid:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Risk of serious damage to eyes.

### **Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18)) (CAS: 68391-01-5):**

Species : Rabbit  
Result : Corrosive

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

May cause an allergic skin reaction.

#### **Respiratory sensitisation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

#### **Components:**

### **Glutaral (CAS: 111-30-8):**

Species : Guinea pig  
Result : The product is a skin sensitiser, sub-category 1A.

Result : May cause sensitisation by inhalation.

### **Formaldehyde (CAS: 50-00-0):**

Result : The product is a skin sensitiser, sub-category 1A.

### **Propan-2-ol (CAS: 67-63-0):**

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

### **Tridecanol, branched, ethoxylated (CAS: 69011-36-5):**

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

### **[[[(2-hydroxyethyl)imino]bis(methylene)]bisphosphonic acid:**

Species : Guinea pig  
Method : OECD Test Guideline 406  
Result : Does not cause skin sensitisation.

### **Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18)) (CAS: 68391-01-5):**

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

### **Germ cell mutagenicity**

Suspected of causing genetic defects.

#### **Components:**

#### **Formaldehyde (CAS: 50-00-0):**

Germ cell mutagenicity - Assessment : Suspected of inducing heritable mutations in the germ cells of humans.

#### **Propan-2-ol (CAS: 67-63-0):**

Genotoxicity in vitro : Test Type: Ames test  
Metabolic activation: with and without metabolic activation  
Result: negative

### **Carcinogenicity**

May cause cancer.

#### **Components:**

#### **Formaldehyde (CAS: 50-00-0):**

Carcinogenicity - Assessment : May cause cancer by inhalation.

### **Reproductive toxicity**

Not classified due to lack of data.

#### **STOT - single exposure**

Corrosive to the respiratory tract.

#### **Components:**

#### **Glutaral (CAS: 111-30-8):**

Assessment : May cause respiratory irritation.

#### **STOT - repeated exposure**

Not classified due to lack of data.

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### Repeated dose toxicity

No data available

### Aspiration toxicity

Not classified due to lack of data.

### Experience with human exposure

No data available

### Experience with human exposure

No data available

### Neurological effects

No data available

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

#### Components:

#### **Glutaral (CAS: 111-30-8):**

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,8 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 (Water flea)): 2,1 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : EC50 ( Desmodesmus subspicatus (green algae)): 0,6 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201
- NOEC ( Desmodesmus subspicatus (green algae)): 0,025 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- M-Factor (Acute aquatic toxicity) : 1
- Toxicity to fish (Chronic toxicity) : NOEC: 1,6 mg/l  
Exposure time: 97 d  
Species: Oncorhynchus mykiss (rainbow trout)
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 5 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211
- M-Factor (Chronic aquatic toxicity) : 1

#### **(ethylenedioxy)dimethanol (CAS: 3586-55-8):**

- Toxicity to fish : LC50 (Fish): 71 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 28 mg/l  
Exposure time: 48 h

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Toxicity to algae/aquatic plants : EC50 ( Pseudokirchneriella subcapitata (green algae)): 4,62 mg/l  
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 8 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

### Formaldehyde (CAS: 50-00-0):

Toxicity to fish : LC50 (Fish): 6,18 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 5,8 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 ( algae): 5,67 mg/l  
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 6,4 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

### Propan-2-ol (CAS: 67-63-0):

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 8.692 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.285 mg/l  
Exposure time: 48 h

NOEC (Daphnia magna (Water flea)): 141 mg/l  
Exposure time: 16 d

Toxicity to algae/aquatic plants : EC50 ( Pseudokirchneriella subcapitata (green algae)): 10.500 mg/l  
Exposure time: 72 h

### Tridecanol, branched, ethoxylated (CAS: 69011-36-5):

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 10 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 ( Desmodesmus subspicatus (green algae)): > 1 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

### Octan-1-ol, ethoxylated (CAS: 27252-75-1):

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 40 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 ( algae): 14 mg/l  
Exposure time: 72 h

### [[[(2-hydroxyethyl)imino]bis(methylene)]bisphosphonic acid:

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Toxicity to fish	:	LC50 (Fish): 1.000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 64 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (algae): 46 mg/l Exposure time: 72 h

### **Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18)) (CAS: 68391-01-5):**

Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,515 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0,016 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (microalgae)): 0,049 mg/l Exposure time: 72 h Test Type: Cell multiplication inhibition test Method: OECD Test Guideline 201
M-Factor (Acute aquatic toxicity)	:	10
Toxicity to fish (Chronic toxicity)	:	NOEC: 0,032 mg/l Exposure time: 34 d Species: Leuciscus idus (Golden orfe) Method: OECD Test Guideline 210
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0,0042 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211
M-Factor (Chronic aquatic toxicity)	:	1

### **Didecyldimethylammonium chloride (CAS: 7173-51-5):**

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 0,19 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 0,062 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,026 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic toxicity)	:	10
Toxicity to fish (Chronic toxicity)	:	NOEC: 0,032 mg/l 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

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toxicity) Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### **N-(2-ethylhexyl)-3,5,5-trimethylhexanamide (CAS: 1700656-13-8):**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 1.000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,475 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 ( Desmodemus subspicatus (green algae)): 0,962 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
  
NOEC ( Desmodemus subspicatus (green algae)): 0,31 mg/l  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

### **Persistence and degradability**

#### **Components:**

#### **Glutaral (CAS: 111-30-8):**

Biodegradability : Method: OECD Test Guideline 301A  
Remarks: Readily biodegradable, according to appropriate OECD test.

Biochemical Oxygen Demand (BOD) : Biochemical oxygen demand  
235 mg/g  
Incubation time: 5 d

Chemical Oxygen Demand (COD) : 1.385 mg/g

#### **(ethylenedioxy)dimethanol (CAS: 3586-55-8):**

Biodegradability : Result: Readily biodegradable.

#### **Formaldehyde (CAS: 50-00-0):**

Biodegradability : Result: Readily biodegradable.

#### **Propan-2-ol (CAS: 67-63-0):**

Biodegradability : Result: rapidly biodegradable

#### **Tridecanol, branched, ethoxylated (CAS: 69011-36-5):**

Biodegradability : Result: Totally biodegradable

#### **Octan-1-ol, ethoxylated (CAS: 27252-75-1):**

Biodegradability : Result: Readily biodegradable.

#### **[[[(2-hydroxyethyl)imino]bis(methylene)]bisphosphonic acid:**

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Biodegradability : Biodegradation: > 70 %  
Method: OECD Test Guideline 302B  
Remarks: Expected to be biodegradable

### **Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18)) (CAS: 68391-01-5):**

Biodegradability : Method: OECD Test Guideline 301B  
Remarks: According to the results of tests of biodegradability this product is considered as being readily biodegradable.

### **Didecyldimethylammonium chloride (CAS: 7173-51-5):**

Biodegradability : Method: OECD Test Guideline 301B  
Remarks: Readily biodegradable, according to appropriate OECD test.

### **Bioaccumulative potential**

#### **Components:**

#### **Formaldehyde (CAS: 50-00-0):**

Partition coefficient: n-octanol/water : log Pow: 0,35 (25 °C)

#### **Propan-2-ol (CAS: 67-63-0):**

Partition coefficient: n-octanol/water : log Pow: 0,05

#### **Didecyldimethylammonium chloride (CAS: 7173-51-5):**

Partition coefficient: n-octanol/water : log Pow: 2,8 (20 °C)

### **Mobility in soil**

#### **Components:**

#### **Propan-2-ol (CAS: 67-63-0):**

Distribution among environmental compartments : Remarks: Mobile in soils

### **Other adverse effects**

No data available

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## 13. DISPOSAL CONSIDERATIONS

### **Disposal methods**

Waste from residues : Dispose of as hazardous waste in compliance with local and national regulations.  
The product should not be allowed to enter drains, water courses or the soil.

Contaminated packaging : Empty remaining contents.  
Clean container with water.  
Store containers and offer for recycling of material when in accordance with the local regulations.

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## 14. TRANSPORT INFORMATION

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### ADR

UN number : UN 2922  
Proper shipping name : CORROSIVE LIQUID, TOXIC, N.O.S.  
(glutaral, formaldehyde)  
Class : 8  
Subsidiary risk : 6.1  
Packing group : II  
Labels : 8 (6.1)  
Hazard Identification Number : 86  
Tunnel restriction code : (E)  
Limited quantity (LQ) : 1,00 L  
Environmentally hazardous : yes

### UNRTDG

UN number : UN 2922  
Proper shipping name : CORROSIVE LIQUID, TOXIC, N.O.S.  
(glutaral, formaldehyde)  
Class : 8  
Subsidiary risk : 6.1  
Packing group : II  
Labels : 8 (6.1)  
Environmentally hazardous : no

### IATA-DGR

UN/ID No. : UN 2922  
Proper shipping name : Corrosive liquid, toxic, n.o.s.  
(glutaral, formaldehyde)  
Class : 8  
Subsidiary risk : 6.1  
Packing group : II  
Labels : Corrosive, Toxic  
Packing instruction (cargo aircraft) : 855  
Packing instruction (passenger aircraft) : 851

### IMDG-Code

UN number : UN 2922  
Proper shipping name : CORROSIVE LIQUID, TOXIC, N.O.S.  
(glutaral, formaldehyde)  
Class : 8  
Subsidiary risk : 6.1  
Packing group : II  
Labels : 8 (6.1)  
EmS Code : F-A, S-B  
Limited quantity (LQ) : 1,00 L  
Marine pollutant : yes

### Transport in bulk according to IMO instruments

Not applicable for product as supplied.

### Special precautions for user

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

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### Other international regulations

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

TSCA : Product contains substance(s) not listed on TSCA inventory.

### 16. OTHER INFORMATION

Revision Date : 17.02.2025

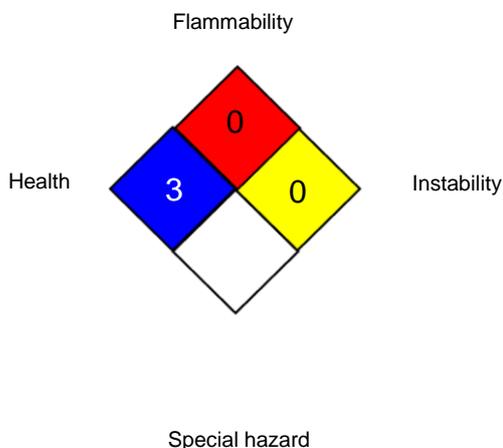
Date format : yyyy/mm/dd

#### Safety datasheet sections which have been updated:

- 2. Hazards identification
- 3. Composition/information on ingredients
- 7. Handling and storage
- 9. Physical and chemical properties
- 14. Transport information
- 15. Regulatory information

### Further information

#### NFPA:



#### HMIS® IV:

HEALTH	*	3
FLAMMABILITY		0
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### 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

AIC - 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

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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

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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.

TC / EN