

SAFETY DATA SHEET

Korsolex extra

Version 3.14 Revision Date: 30.05.2023 SDS Number: R11849 Date of last issue: 26.01.2023
Date of first issue: 01.02.2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Korsolex extra

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 : Giftnotruf 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.

2. HAZARDS IDENTIFICATION


GHS Classification

Flammable liquids : Category 3
Acute toxicity (Oral) : Category 4
Acute toxicity (Inhalation) : Category 4
Skin irritation : Category 2
Serious eye damage : Category 1
Carcinogenicity : Category 1B
Germ cell mutagenicity : Category 2
Skin sensitisation : Category 1
Respiratory sensitisation : Category 1
Short-term (acute) aquatic hazard : Category 1
Long-term (chronic) aquatic hazard : Category 2

GHS label elements

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Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H226 Flammable liquid and vapour. H302 + H332 Harmful if swallowed or if inhaled. H315 Causes skin irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H341 Suspected of causing genetic defects. H350 May cause cancer. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements	:	Prevention: P201 Obtain special instructions before use. P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P280 Wear protective gloves/ eye protection/ face protection. P284 Wear respiratory protection. Response: P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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. 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
Formaldehyde	50-00-0	>= 5 - < 10
(ethylenedioxy)dimethanol	3586-55-8	>= 3 - < 10
Propan-2-ol	67-63-0	>= 1 - < 10
Octan-1-ol, ethoxylated	27252-75-1	>= 3 - < 5
Tridecanol, branched, ethoxylated	69011-36-5	>= 3 - < 10
[[[(2-hydroxyethyl)imino]bis(methylene)]bisphosphonic acid	Not Assigned	>= 1 - < 2,5
Didecyldimethylammonium chloride	7173-51-5	>= 1 - < 2,5
Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18))	68391-01-5	>= 1 - < 2,5
N-(2-ethylhexyl)-3,5,5-trimethylhexanamide	1700656-13-8	>= 0,25 - < 1
(E)-2-benzylideneoctanal	165184-98-5	>= 0,025 - < 0,1

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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 or if inhaled.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Suspected of causing genetic defects.
May cause cancer.
- 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 up : Clean-up methods - large spillage
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

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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

No personal respiratory protective equipment normally required.

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

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.

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Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
Keep away from food and drink.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : blue

Odour : characteristic

pH : 4 (20 °C)

Boiling point/boiling range : 100 °C

Flash point : 46 °C
Method: DIN 51755 Part 1

Flammability (solid, gas) : not auto-flammable

Vapour pressure : No data available

Density : 1,045 g/cm³ (20 °C)

Solubility(ies)
Water solubility : soluble

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)

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed or if inhaled.

Components:

Glutaral (CAS: 111-30-8):

Acute oral toxicity : LD50 (Rat): 154 mg/kg
Method: OECD Test Guideline 401

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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

Formaldehyde (CAS: 50-00-0):

Acute oral toxicity : Acute toxicity estimate: 640 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 490 ppm
Test atmosphere: gas

Acute dermal toxicity : Acute toxicity estimate: 270 mg/kg

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

Acute oral toxicity : LD50 (Rat, female): 760 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg

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

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

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

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

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

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg
Method: Expert judgement

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg
Method: Expert judgement

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

Acute oral toxicity : LD50 Oral (Rat): 250 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

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

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

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

(E)-2-benzylideneoctanal (CAS: 165184-98-5):

Acute oral toxicity : LD50 (Rat): 3.100 mg/kg

Acute dermal toxicity : LD50 (Rat): 3.000 mg/kg

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Skin corrosion/irritation

Causes skin irritation.

Product:

Result : Skin irritation
Result : Irritating to mucous membranes

Components:

Glutaral (CAS: 111-30-8):

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

Formaldehyde (CAS: 50-00-0):

Result : Causes burns.

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

Result : Skin irritation

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

Species : Rabbit
Result : No skin irritation

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

Result : Causes burns.

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

Species : Rabbit
Result : No skin irritation

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

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

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

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

Species : Rabbit
Result : Corrosive after 1 to 4 hours of exposure

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Result : Risk of serious damage to eyes.

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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
Assessment : Risk of serious damage to eyes.
Method : OECD Test Guideline 405

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.

Product:

Remarks : May cause sensitisation by inhalation and skin contact.

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):

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:

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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.

(E)-2-benzylideneoctanal (CAS: 165184-98-5):

Result : May cause sensitisation by skin contact.

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 based on available information.

STOT - single exposure

Not classified based on available information.

Components:

Glutaral (CAS: 111-30-8):

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

No data available

Aspiration toxicity

Not classified based on available information.

Experience with human exposure

No data available

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Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

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 (Desmodemus subspicatus (green algae)): 0,6 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201
- NOEC (Desmodemus 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

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)

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

- Toxicity to fish : LC50 (Fish): 71 mg/l

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- Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 28 mg/l
Exposure time: 48 h
- 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)
- 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
- Octan-1-ol, ethoxylated (CAS: 27252-75-1):**
- Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): 40 mg/l
Exposure time: 48 h
- Toxicity to algae/aquatic plants : (algae): 14 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 (Desmodemus subspicatus (green algae)): > 1 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- [[[(2-hydroxyethyl)imino]bis(methylene)]bisphosphonic acid:**
- 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
- Didecyldimethylammonium chloride (CAS: 7173-51-5):**
- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0,19 mg/l
Exposure time: 96 h

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

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

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

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Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Desmodesmus subspicatus (green algae)): 0,31 mg/l
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 1

M-Factor (Chronic aquatic toxicity) : 1

(E)-2-benzylideneoctanal (CAS: 165184-98-5):

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,247 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (algae): 0,065 mg/l
Exposure time: 72 h

NOEC (algae): 0,065 mg/l
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC: 0,93 mg/l
Exposure time: 4 d
Species: Salmo trutta (brown trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,063 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

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

Formaldehyde (CAS: 50-00-0):

Biodegradability : Result: Readily biodegradable.

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

Biodegradability : Result: Readily biodegradable.

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

Biodegradability : Result: rapidly biodegradable

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

Biodegradability : Result: Readily biodegradable.

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

Biodegradability : Result: Totally biodegradable

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

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

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

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

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.

(E)-2-benzylideneoctanal (CAS: 165184-98-5):

Biodegradability : Result: Totally biodegradable

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

No data available

Other adverse effects

No data available

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

ADR

UN number : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(propan-2-ol, glutaral)
Class : 3
Packing group : III
Labels : 3
Hazard Identification Number : 30
Tunnel restriction code : (D/E)
Limited quantity (LQ) : 5,00 L
Environmentally hazardous : yes

UNRTDG

UN number : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(propan-2-ol, glutaral)
Class : 3
Packing group : III
Labels : 3

IATA-DGR

UN/ID No. : UN 1993
Proper shipping name : Flammable liquid, n.o.s.
(propan-2-ol, glutaral)
Class : 3
Packing group : III
Labels : Flammable Liquids
Packing instruction (cargo aircraft) : 366
Packing instruction (passenger aircraft) : 355

IMDG-Code

UN number : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(propan-2-ol, glutaral)
Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-E
Limited quantity (LQ) : 5,00 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.

15. REGULATORY INFORMATION

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

Other international regulations

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

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

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16. OTHER INFORMATION

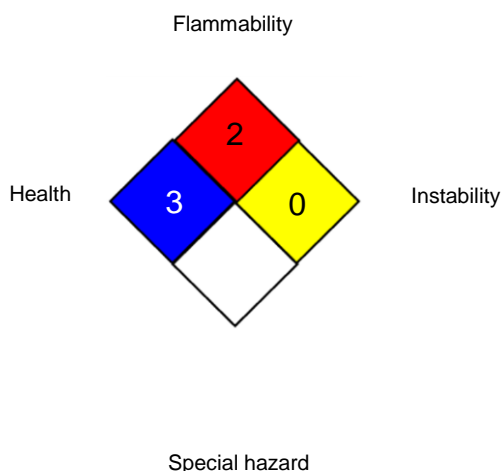
Revision Date : 30.05.2023
Date format : yyyy/mm/dd

Safety datasheet sections which have been updated:

1. Identification of the substance/mixture and of the company/undertaking

Further information

NFPA:



HMIS® IV:

HEALTH	*	3
FLAMMABILITY		2
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

AiIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office

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of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

TC / EN