

gwk		
Safety data sheet		Revision Date: 12.01.2016
		Print date: 20.05.2016
Trade name: BA 3		Revisions-Nr. 2.1

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS_DE

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

1.1 Product identifier

Trade name : BA 3
MICROBIOCIDE

1.2 Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : Biocidal product
Cooling water treatment

Recommended restrictions on use : Restricted to professional users.

<p>1.3 Details of the supplier of the safety data sheet gwk Gesellschaft Wärme Kältetechnik mbH Scherl 10 D-58540 Meinerzhagen</p> <p>www.gwk.com info@gwk.com</p>	<p>1.4 Emergency telephone number Berlin +49 (0)30 / 306 867 90</p> <p>Product Information Contact your local representative</p>
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin corrosion, Category 1B	H314: Causes severe skin burns and eye damage.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word :

Danger

Hazard statements :

H314
H317
H412

Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
Harmful to aquatic life with long lasting effects.

Precautionary statements :

Prevention:

P261

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P273

Avoid release to the environment.

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P303 + P361 + P533 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Hazardous components which must be listed on the label:

Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6)

2.3 Other hazards

Additional advice

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Magnesium nitrate	10377-60-3	Ox. Sol.3; H272	>= 1 - < 2,5

	233-826-7		
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6)	55965-84-9	Acute Tox.3; H301 Acute Tox.2; H310 Acute Tox.2; H330 Skin Corr.1B; H314 Skin Sens.1; H317 Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 1 - < 2,5
Copper dinitrate	3251-23-8 221-838-5	Ox. Sol.2; H272 Acute Tox.4; H302 Skin Irrit.2; H315 Eye Irrit.2; H319 Aquatic Acute1; H400 Aquatic Chronic1; H410	>= 0 - < 0,1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Move to fresh air.
IF INHALED: Call a POISON CENTER or doctor/ physician if you feel unwell.
Keep patient warm and at rest.
If unconscious place in recovery position and seek medical advice.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.
Wash contaminated clothing before re-use.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
- If swallowed : Get medical attention immediately.

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Do NOT induce vomiting.
Rinse mouth with water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:
stomach or intestinal upset (nausea, vomiting, diarrhea)
irritation (nose, throat, airways)
- Risks : May cause an allergic skin reaction.
Causes serious eye damage.
Causes severe burns.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : No hazards which require special first aid measures.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Nitrogen oxides (NO_x)
carbon dioxide and carbon monoxide
hydrogen chloride
Sulphur oxides

5.3 Advice for firefighters

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

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Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
Comply with all applicable federal, state, and local regulations.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.
For further information see Section 8 and Section 13 of the safety data sheet.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.
Provide sufficient air exchange and/or exhaust in work rooms.
Do not breathe vapours/dust.
Do not smoke.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
Container hazardous when empty.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
Smoking, eating and drinking should be prohibited in the

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application area.
 For personal protection see section 8.
 Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Wash hands before breaks and at the end of workday. When using do not eat or drink. Ensure that eyewash stations and safety showers are close to the workstation location. When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Storage class (TRGS 510) : 8B, Non-combustible, corrosive hazardous materials

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6)	55965-84-9	TWA	0,076 mg/m ³	SUPLR EXP
		STEL	0,23 mg/m ³	SUPLR EXP
Further information	5-chloro-2-methyl-2H-isothiazolin-3-one			
		TWA	1,5 mg/m ³	SUPLR EXP

		STEL	4,5 mg/m ³	SUPLR EXP
Further information	2-methyl-2H-isothiazolin-3-one			
Copper dinitrate	3251-23-8	MAK (Respirable fraction.)	0,01 mg/m ³ Respirable fraction.	DFG MAK

8.2 Exposure controls

Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Eye protection : Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.
Maintain eye wash station in immediate work area.

Hand protection

Remarks : Nitrile rubber

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Wear as appropriate:
impervious clothing
Chemical resistant apron
Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Discard gloves that show tears, pinholes, or signs of wear.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Aqueous solution
Colour : green
Odour : odourless
Odour Threshold : No data available

pH	: 3,5
Melting point/freezing point	: < -3 °C No data available
Boiling point/boiling range	: 100 °C (1,013 hPa)
Flash point	: Not applicable
Evaporation rate	: Not relevant to the classification and hazards of the substance or mixture.
Flammability (solid, gas)	: No data available
Burning rate	: Not relevant to the classification and hazards of the substance or mixture.
Upper explosion limit	: No data available
Lower explosion limit	: Not relevant to the classification and hazards of the substance or mixture.
Vapour pressure	: 23,33 hPa (20 °C)
Relative vapour density	: No data available
Relative density	: ca. 1,021 (20,00 °C)
Density	: ca. 1,021 g/cm ³ (20,00 °C)
Bulk density	: Not relevant to the classification and hazards of the substance or mixture.
Solubility(ies)	
Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: Not relevant to the classification and hazards of the substance or mixture.
Thermal decomposition	: Not relevant to the classification and hazards of the substance or mixture.

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Viscosity
 Viscosity, dynamic : < 50 mPa.s

Viscosity, kinematic : Not relevant to the classification and hazards of the substance or mixture.

Explosive properties : Not explosive

Oxidizing properties : Not relevant to the classification and hazards of the substance or mixture.

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

10.4 Conditions to avoid

10.5 Incompatible materials

Materials to avoid : Dimethylformamide
 Organic materials

10.6 Hazardous decomposition products

Hazardous decomposition products : carbon dioxide and carbon monoxide
 hydrogen chloride
 Nitrogen oxides (NOx)
 Sulphur oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure : Inhalation
 Skin contact
 Eye Contact
 Ingestion

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Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : LD 50 (Rat): 4.400 mg/kg

Acute inhalation toxicity : LC 50 (Rat): 12,3 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD 50 (Rat): > 2.000 mg/kg

Components:

MAGNESIUM NITRATE ANHYDROUS:

Acute oral toxicity : LD 50 (Rat): 5.440 mg/kg

Acute dermal toxicity : LD 50 (Rat): > 5.000 mg/kg
Remarks: Information given is based on data obtained from similar substances.

Components:

Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one:

Acute oral toxicity : LD 50 (Rat): 49,6 - 75 mg/kg

Acute inhalation toxicity : LC 50 (Rat): 0,33 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Remarks: Aerosol

Acute dermal toxicity : LD 50 (Rabbit): 141 mg/kg

Components:

CUPRIC (II) NITRATE ANHYDROUS:

Acute oral toxicity : LD 50 (Rat): 794 mg/kg

Skin corrosion/irritation

Causes severe burns.

Product:

Result: Corrosive to skin

Remarks: May cause skin irritation in susceptible persons., Causes severe skin burns and eye damage.

Result: Repeated exposure may cause skin dryness or cracking.

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Components:

MAGNESIUM NITRATE ANHYDROUS:

Result: Slightly irritating to skin

Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one:

Species: Rabbit

Result: Corrosive to skin

CUPRIC (II) NITRATE ANHYDROUS:

Result: Irritating to skin

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Result: Corrosive to eyes

Remarks: May cause irreversible eye damage.

Components:

MAGNESIUM NITRATE ANHYDROUS:

Result: Slightly irritating to eyes

Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one:

Species: Rabbit

Result: Corrosive to eyes

CUPRIC (II) NITRATE ANHYDROUS:

Result: Severely irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

Product:

Assessment: May cause sensitization by skin contact.

Remarks: May cause allergic skin reaction.

Components:

Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one:

Assessment: May cause sensitization by skin contact.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

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Product:

Remarks: This information is not available.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

SECTION 12: Ecological information

12.1 Toxicity

Components:

Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6)

- | | |
|---|--|
| Toxicity to fish | : LC 50 (Oncorhynchus mykiss (rainbow trout)): 0,19 mg/l
Exposure time: 96 h |
| | LC 50 (Lepomis macrochirus (Bluegill sunfish)): 0,28 mg/l
Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : EC 50 (Water flea (Daphnia magna)): 0,16 mg/l
Exposure time: 48 h |
| Toxicity to algae | : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,027 mg/l
Exposure time: 72 h |
| M-Factor (Acute aquatic toxicity) | : 10 |
| Toxicity to bacteria | : EC 50 (activated sludge): 4,5 mg/l
Test Type: Respiration inhibition |
| M-Factor (Chronic aquatic toxicity) | : 1 |

toxicity)

Copper dinitrate

Toxicity to fish

: LC 50 (Bluegill (*Lepomis macrochirus*)): 0,62 mg/l
Exposure time: 96 h
Test Type: flow-through test

LC 50 (Zebra danio (*Danio rerio*)): 0,17 - 0,26 mg/l
Exposure time: 72 h
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates

: EC 50 (Water flea (*Daphnia magna*)): 0,04 - 0,06 mg/l
Exposure time: 24 h
Test Type: static test

M-Factor (Acute aquatic toxicity)

: 10

M-Factor (Chronic aquatic toxicity)

: 1

12.2 Persistence and degradability

Components:

Mixture of 5-chloro-2-methyl-2H-isothiazol-3-one (EINECS 247-500-7) and 2-methyl-2H-isothiazol-3-one (EINECS 220-239-6)

Biodegradability

: Biodegradation: 30 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
Remarks: Not readily biodegradable.

12.3 Bioaccumulative potential

Product:

Bioaccumulation

: Remarks: The bioaccumulation potential cannot be determined.

Components:

Copper dinitrate

Bioaccumulation

: Species: Carp (*Cyprinus carpio*)
Exposure time: 28 d
Concentration: 0,028 mg/l
Bioconcentration factor (BCF): 1.460,7
Method: Renewal

12.4 Mobility in soil

No data available

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12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Toxic to aquatic life., Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14: Transport information

SECTION 14: Transport information

14.1 UN number

ADR: UN3265

ADNR: UN3265

RID: UN3265

INTERNATIONAL MARITIME DANGEROUS GOODS: UN3265

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: UN3265

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: UN3265


14.2 UN proper shipping name

ADR: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE / 2-METHYL-4-ISOTHIAZOLIN-3-ONE (3:1))

ADNR: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE / 2-METHYL-4-ISOTHIAZOLIN-3-ONE (3:1))

RID: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE / 2-METHYL-4-ISOTHIAZOLIN-3-ONE (3:1))

INTERNATIONAL MARITIME DANGEROUS GOODS: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE / 2-METHYL-4-ISOTHIAZOLIN-3-ONE (3:1))

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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Corrosive liquid, acidic, organic, n.o.s. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE / 2-METHYL-4-ISOTHIAZOLIN-3-ONE (3:1))

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Corrosive liquid, acidic, organic, n.o.s. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE / 2-METHYL-4-ISOTHIAZOLIN-3-ONE (3:1))

14.3 Transport hazard class(es)

ADR: 8

ADNR: 8

RID: 8

INTERNATIONAL MARITIME DANGEROUS GOODS: 8

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: 8

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: 8

14.4 Packing group

ADR: III

ADNR: III

RID: III

INTERNATIONAL MARITIME DANGEROUS GOODS: III

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: III

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: III

14.5 Environmental hazards

ADR: Not applicable

ADNR: Not applicable

RID: Not applicable

INTERNATIONAL MARITIME DANGEROUS GOODS: Not applicable

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not applicable

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER: Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship Type: Not applicable Hazard

code(s): Not applicable Pollutant

Category: Not applicable

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

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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 57) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

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


Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

Water contaminating class (Germany) : WGK 2 water endangering

TA Luft List (Germany) : Total dust, Not applicable
: Inorganic substances in powdered form, Class 3 0,02 %
: Inorganic substances in vapour or gaseous form, Not applicable
: Organic Substances, Class 1 1,49 %, Class 2 0,03 %
: Carcinogenic substances, Not applicable
: Mutagenic, Not applicable
: Toxic to reproduction, Not applicable

Other regulations : Young people under 18 years old are not allowed to work with this product according to the EU Directive 94/33/EC on the protection of young people at work.

Biocides
: N-63678

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

TSCA	: On TSCA Inventory
DSL	All components of this product are on the Canadian DSL.
AUSTR	On the inventory, or in compliance with the inventory
ENCS	On the inventory, or in compliance with the inventory
KECL	On the inventory, or in compliance with the inventory
PHIL	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECL (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

15.2 Chemical Safety Assessment

No data available

SECTION 16: Other information

Further information

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Full text of H-Statements referred to under sections 2 and 3.

H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H310	Fatal in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Further information

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

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Sources of key data used to compile the Safety Data Sheet

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists
 BEI : Biological Exposure Index
 CAS : Chemical Abstracts Service (Division of the American Chemical Society).
 CMR : Carcinogenic, Mutagenic or Toxic for Reproduction
 FG : Food grade
 GHS : Globally Harmonized System of Classification and Labeling of Chemicals.
 H-statement : Hazard Statement
 IATA : International Air Transport Association.
 IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
 ICAO : International Civil Aviation Organization
 ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"
 IMDG : International Maritime Code for Dangerous Goods
 ISO : International Organization for Standardization
 logPow : octanol-water partition coefficient
 LCxx : Lethal Concentration, for xx percent of test population
 LDxx : Lethal Dose, for xx percent of test population.
 ICxx : Inhibitory Concentration for xx of a substance
 Ecxx : Effective Concentration of xx
 N.O.S.: Not Otherwise Specified
 OECD : Organization for Economic Co-operation and Development
 OEL : Occupational Exposure Limit
 P-Statement : Precautionary Statement
 PBT : Persistent , Bioaccumulative and Toxic
 PPE : Personal Protective Equipment
 STEL : Short-term exposure limit
 STOT : Specific Target Organ Toxicity
 TLV : Threshold Limit Value
 TWA : Time-weighted average
 vPvB : Very Persistent and Very Bioaccumulative
 WEL : Workplace Exposure Level

ABM : Water Hazard Class for the Netherlands
 ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine
 CLP : Classification, Labelling and Packaging
 CSA : Chemical Safety Assessment
 CSR : Chemical Safety Report

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DNEL : Derived No Effect Level.

EINECS : European Inventory of Existing Commercial Chemical Substances.

ELINCS : European List of Notified Chemical Substances

PEC : Predicted Effect Concentration

PEL : Permissible Exposure Limits

PNEC : Predicted No Effect Concentration

R-phrase : Risk phrase

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulation Concerning the International Transport of Dangerous Goods by Rail

S-phrase: Safety phrase

WGK : German Water Hazard Class