



# Safety Data Sheet

Information following the respective legal area

**ACMOSIT 65-50**

Revision date: 27.09.2022

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

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UFI: 7D7W-M8E7-U2R6-D04E

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Relevant identified uses**

Grinding coolant, water mixable

**Uses advised against**

Consumer uses: Private households (= general public = consumers)

Sector of uses [SU]: 21

Do not use for private purposes (household).

Relevant identified uses - Further information:

Industrial uses: Uses of substances as such or in preparations at industrial sites

Sector of uses [SU]: 3

Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Sector of uses [SU]: 22

The product is intended for professional use.

**1.3. Details of the supplier of the safety data sheet****Manufacturer**

Company name: ACMOS CHEMIE KG

Street: Industriestrasse 49

Place: D-28199 Bremen

Post-office box: 10 10 69

D-28010 Bremen

Telephone: +49 (0)421-5189-0

Telefax: +49 (0)421-511415

e-mail: [acmos@acmos.com](mailto:acmos@acmos.com)

Contact person: Mr. Stephan Dryhaus

e-mail: [sds@acmos.com](mailto:sds@acmos.com)Internet: [www.acmos.com](http://www.acmos.com)

Responsible Department: Laboratory (Division: Occupational- / Product security) - see under section 16

**1.4. Emergency telephone number:**

+44 111 (Emergency information service / official advisory body: National Poisons

Information Service - NPIS Birmingham) (<https://www.npis.org>)

Language(s) of Telephone Service: EN

**Supplier**

Company name: ACMOS CHEMIE KG

Street: Industriestrasse 49

Place: D-28199 Bremen

Post-office box: 10 10 69

D-28010 Bremen

Telephone: +49 (0)421-5189-0

Telefax: +49 (0)421-511415

e-mail: [acmos@acmos.com](mailto:acmos@acmos.com)

Contact person: Mr. Stephan Dryhaus

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Responsible Department: Laboratory (Division: Occupational- / Product security) - see under section 16

**1.4. Emergency telephone number:**

+44 111 (Emergency information service / official advisory body: National Poisons

Information Service - NPIS Birmingham) (<https://www.npis.org>)

Language(s) of Telephone Service: EN

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Skin Sens. 1; H317

Full text of hazard statements: see SECTION 16.

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#### 2.2. Label elements

##### GB CLP Regulation

##### Hazard components for labelling

2-methylisothiazol-3(2H)-one

1,2-benzisothiazol-3(2H)-one

**Signal word:** Warning**Pictograms:**

##### Hazard statements

H317 May cause an allergic skin reaction.

##### Precautionary statements

P261 Avoid breathing vapours.

P280 Wear protective gloves/eye protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

##### Special labelling of certain mixtures

Labeling according to Regulation (EU) No 528/2012 on biocides, Article 58 (3) and Regulation (EC) No 1272/2008, Article 25 (due to the specific conditions of the active substance approval): a) Contains biocidal products: Product-type 13: Working or cutting fluid preservatives. b) Property attributed to the treated article: None c) Name of all active ingredients: See product label. d) Names of contained nanomaterials: None e) Relevant use instructions: Use personal protective equipment as required.

##### Additional advice on labelling

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

#### 2.3. Other hazards

Adverse physicochemical effects:

See section 9 for physical and chemical properties.

Adverse human health effects and symptoms:

See section 11 for toxicological information.

Adverse environmental effects:

See section 12 for environmental information.

Other adverse effects:

Special danger of slipping by leaking/spilling product.

Results of PBT-/vPvB-assessment:

See under section 12.5 - Results of PBT and vPvB assessment.

Endocrine disrupting properties:

See under section 11.2 + 12.6 - Endocrine disrupting properties.

### **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixtures

##### Chemical characterization

Solution of active ingredients in water



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**Hazardous components**

CAS No	Chemical name	Quantity
	EC No      Index No      REACH No	
	Classification (GB CLP Regulation)	
108-91-8	cyclohexylamine	< 1 %
	203-629-0      612-050-00-6      01-2119486803-29	
	Flam. Liq. 3, Repr. 2, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Eye Dam. 1; H226 H361f H311 H301 H314 H318	
2682-20-4	2-methylisothiazol-3(2H)-one	< 0.1 %
	220-239-6      613-326-00-9      01-2120764690-50	
	Acute Tox. 2, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Eye Dam. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 1; H330 H311 H301 H314 H318 H317 H400 H410 EUH071	
2634-33-5	1,2-benzisothiazol-3(2H)-one	< 0,05 %
	220-120-9      613-088-00-6      01-2120761540-60	
	Acute Tox. 2, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 2; H330 H302 H315 H318 H317 H400 H411	

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
108-91-8	203-629-0	cyclohexylamine	< 1 %
		dermal: LD50 = 275 mg/kg; oral: LD50 = 300 mg/kg	
2682-20-4	220-239-6	2-methylisothiazol-3(2H)-one	< 0.1 %
		inhalation: ATE = 0,5 mg/l (vapours); inhalation: LC50 = 0,1 mg/l (dusts or mists); dermal: LD50 = 242 mg/kg; oral: LD50 = 120 mg/kg Skin Sens. 1A; H317: >= 0,0015 - 100 Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=1	
2634-33-5	220-120-9	1,2-benzisothiazol-3(2H)-one	< 0,05 %
		inhalation: ATE = 0,5 mg/l (vapours); inhalation: ATE = 0,05 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 490 mg/kg Skin Sens. 1; H317: >= 0,05 - 100 Aquatic Acute 1; H400: M=1	

**Further Information**

All information on the ingredients as well as the classification apply solely to the available mixture as concentrate.  
Water-mixed working liquids made of water-miscible concentrates are subject to a special evaluation due to the fixed rate of dilution.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove affected person from the danger area and lay down.  
Take off immediately all contaminated clothing and wash it before reuse.  
Put victim at rest, cover with a blanket and keep warm.  
Do not leave affected person unattended.  
If a person vomits when lying on his back, place him in the recovery position.  
If breathing is irregular or stopped, administer artificial respiration.  
If unconscious but breathing normally, place in recovery position and seek medical advice.  
Never give anything by mouth to an unconscious person or a person with cramps.  
In the event of cardiac arrest immediately perform cardiopulmonary resuscitation.  
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Self-protection of the first aider:

Wear personal protection equipment (refer to section 8).

First Aid.

Notes for the doctor:



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No special measures are necessary.

**After inhalation**

Remove victim out of the danger area.

Provide fresh air.

In case of respiratory tract irritation, consult a physician.

**After contact with skin**

Wash immediately with:

Water and soap

Rub greasy ointment into the skin.

Do not wash with:

Solvents/Thinner

In case of skin irritation, consult a physician.

**After contact with eyes**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

Protect uninjured eye.

**After ingestion**

Do NOT induce vomiting.

Give nothing to eat or drink.

Never give anything by mouth to an unconscious person or a person with cramps.

Call a physician immediately.

**4.2. Most important symptoms and effects, both acute and delayed**

The following symptoms may occur:

Allergic reactions

Further information see under section 11.1 - Information on hazard classes as defined in Regulation (EC) No 1272/2008.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

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**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Full water jet

Water spray jet

Water mist

Extinguishing powder (ABC-powder)

Foam

Carbon dioxide (CO<sub>2</sub>)

Fire class: not relevant

**Unsuitable extinguishing media**

None known

**5.2. Special hazards arising from the substance or mixture**

Hazardous combustion products:

None known

The product itself does not burn.

**5.3. Advice for firefighters**

Usual measures of preventive and averting fire protection.

Co-ordinate fire-fighting measures to the fire surroundings.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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

Special protective equipment for firefighters

not relevant

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**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**



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#### General advice

- Avoid contact with skin, eyes and clothes.
- Do not breathe vapour/aerosol.
- Prevent further leakage or spillage if safe to do so.
- Provide adequate ventilation.
- Special danger of slipping by leaking/spilling product.

#### For non-emergency personnel

- Use personal protection equipment.
- Walk out of the danger zone and notify trained personnel.
- Emergency procedures: Keep the factory emergency plan and the information chain.

#### For emergency responders

- Use personal protection equipment.
- The personal protective equipment must be adapted to the situation.
- Suitable material:
- See under section 8.2 - Personal protection equipment.

#### 6.2. Environmental precautions

- Do not allow to enter into surface water or drains.
- Do not allow to enter into soil/subsoil.
- Ensure waste is collected and contained.
- In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

#### 6.3. Methods and material for containment and cleaning up

##### For containment

- Repair leaks if without risk.
- Move containers from spill area.
- Make sure spills can be contained, e.g. in sump pallets or kerbed areas.
- Prevent spread over a wide area (e.g. by containment or oil barriers).
- Cover drains.

##### For cleaning up

- Large amounts of spillages:
  - Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).
  - Shovel into suitable container for disposal.
  - Local authorities should be advised if significant spillages cannot be contained.

- Small amounts of spillages:
  - Clear spills immediately.
  - Wipe up with absorbent material (eg. cloth, fleece).
  - Collect in closed and suitable containers for disposal.
  - Clear contaminated areas thoroughly.
  - Recommended cleansing agent:
    - Clean with detergents. Avoid solvent cleaners.
    - Retain contaminated washing water and dispose it.
    - Ensure all waste water is collected and treated via a waste water treatment plant.
  - Ventilate affected area.

##### Other information

- Suitable material for taking up:
  - Sand
  - Kieselguhr
  - Universal binder
  - Absorbing material, organic

- Unsuitable material for taking up:
  - None known

#### 6.4. Reference to other sections

- Personal protection equipment: see section 8
- Disposal: see section 13

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling



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#### Advice on safe handling

Measures to prevent aerosol and dust generation:

All work processes must always be designed so that the following is as low as possible:

Inhalation of vapours or spray/mists

Eye contact

Skin contact

Technical ventilation of workplace

Recirculation of exhaust air is not recommended.

Always close containers tightly after the removal of product.

#### Advice on protection against fire and explosion

Measures to prevent fire:

The product is not: Combustible

Usual measures for fire prevention.

Fire-fighting equipment on the basis of class B.

#### Advice on general occupational hygiene

Advices on general occupational hygiene:

Wear personal protection equipment (refer to section 8).

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

General industrial hygiene practice.

Handle in accordance with good industrial hygiene and safety practice.

Working places should be designed to allow cleaning at any time.

Floors, walls and other surfaces in the hazard area must be cleaned regularly.

Clean spray booth and exhaust hood completely with every product change.

When using do not eat, drink, smoke, sniff.

Thorough skin-cleansing after handling the product.

Used working clothes should not be worn outside the work area.

#### Further information on handling

Environmental precautions:

Transfer wash-downs in sealed containers.

Provide for retaining containers, e.g. floor pan without outflow.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

Suitable floor material:

Floors should be impervious, resistant to liquids and easy to clean.

Protect against:

Heat

Cold

Recommended storage temperature: +10 ... +30 °C

Keep away from:

Food and feedingstuffs

Packaging materials:

Suitable container/equipment material:

Keep/Store only in original container.

Unsuitable container/equipment material:

See under section 8.2 - Hand protection.

##### Hints on joint storage

Do not store together with:

Storage class:

1 (Explosive hazardous substances)

6.2 (Infectious substances)

7 (Radioactive substances)

##### Further information on storage conditions

Technical measures and storage conditions:



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The valid water and zoning ordinances must be observed.  
Keep container tightly closed.  
Protect containers against damage.  
Ensure adequate ventilation of the storage area.  
Do not store outside.  
See also instructions on the label.

### 7.3. Specific end use(s)

Recommendation:  
Possibilities for substitution and references to less hazardous products:  
This product was designed for a special application purpose and optimized appropriately.  
In case of questions regarding product and application, please contact our field service in line with customer service or our technical sales department.  
Observe technical data sheet.

Industrial sector specific solutions:

Hazardous substance information systems of professional associations:  
none

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
108-91-8	Cyclohexylamine	10	41		TWA (8 h)	WEL

#### DNEL/DMEL values

CAS No	Substance	DNEL type	Exposure route	Effect	Value
108-91-8	cyclohexylamine	Worker DNEL, acute	dermal	systemic	0,8 mg/kg bw/day
		Worker DNEL, long-term	dermal	systemic	0,4 mg/kg bw/day
		Worker DNEL, acute	inhalation	systemic	8,2 mg/m <sup>3</sup>
		Worker DNEL, long-term	inhalation	systemic	5,0 mg/m <sup>3</sup>
		Consumer DNEL, acute	dermal	systemic	0,4 mg/kg bw/day
		Consumer DNEL, long-term	dermal	systemic	0,2 mg/kg bw/day
		Consumer DNEL, acute	inhalation	systemic	1,2 mg/m <sup>3</sup>
		Consumer DNEL, long-term	inhalation	systemic	0,6 mg/m <sup>3</sup>
2682-20-4	2-methylisothiazol-3(2H)-one	Worker DNEL, long-term	inhalation	local	0,021 mg/m <sup>3</sup>
		Worker DNEL, acute	inhalation	local	0,043 mg/m <sup>3</sup>
		Consumer DNEL, long-term	inhalation	local	0,021 mg/m <sup>3</sup>
		Consumer DNEL, acute	inhalation	local	0,043 mg/m <sup>3</sup>
2634-33-5	1,2-benzisothiazol-3(2H)-one	Worker DNEL, long-term	inhalation	systemic	6,81 mg/m <sup>3</sup>
		Worker DNEL, long-term	dermal	systemic	0,966 mg/kg bw/day
		Consumer DNEL, long-term	inhalation	systemic	1,2 mg/m <sup>3</sup>
		Consumer DNEL, long-term	dermal	systemic	0,345 mg/kg bw/day

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**PNEC values**

CAS No	Substance	
Environmental compartment		Value
108-91-8	cyclohexylamine	
Freshwater		0,016 mg/l
Marine water		0,002 mg/l
Freshwater sediment		4,1 mg/kg
Marine sediment		0,41 mg/kg
Micro-organisms in sewage treatment plants (STP)		22,52 mg/l
Soil		0,805 mg/kg
2682-20-4	2-methylisothiazol-3(2H)-one	
Freshwater		0,00339 mg/l
Marine water		0,00339 mg/l
2634-33-5	1,2-benzisothiazol-3(2H)-one	
Freshwater		0,00403 mg/l
Marine water		0,000403 mg/l
Freshwater sediment		0,0499 mg/kg
Marine sediment		0,00499 mg/kg
Soil		3 mg/kg

**Additional advice on limit values**

GESTIS - International Limit Values - Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA):

<http://limitvalue.ifa.dguv.de>

Country information (EU)

(<http://www.dguv.de/ifa/fachinfos/occupational-exposure-limit-values/foreign-and-eu-limit-values/index.jsp>)

Country information (GB) (<http://www.hse.gov.uk/pubns/books/eh40.htm>)

Occupational Exposure Limits of EU-memberstates - European Agency for Safety and Health at Work (OSHA)

(<http://osha.europa.eu/en/topics/ds/oel/index.stm/members.stm>)

Source of law: EH40 (GB) (<http://www.hse.gov.uk>)

Recommended monitoring procedures:

Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents (BS EN 14042):

Personal air monitoring

Room air monitoring

Preliminary concentration measurements:

Vapour and aerosols: 10 mg/m<sup>3</sup>

Exposure limits at intended use:

See under section 8.1 - occupational exposure limit value.

DNEL-/PNEC-values:

There are no exposure scenarios attached in the Appendix of this Safety Data Sheet.

Risk management measures according to used control banding approach:

Control banding for chemicals according to the ILO CHEMICAL CONTROL TOOLKIT (ICCT): ICCT-Guidelines and

Control Guidance Sheets ( [http://www.ilo.org/legacy/english/protection/safework/ctrl\\_banding/toolkit/main\\_guide.pdf](http://www.ilo.org/legacy/english/protection/safework/ctrl_banding/toolkit/main_guide.pdf))

Used model:

Consider appropriate model solutions according to good engineering practices on designing the working process, if



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available.

#### 8.2. Exposure controls



#### Appropriate engineering controls

Substance/mixture related measures to prevent exposure during identified uses:

Technical measures to prevent exposure:

Design of appropriate work processes and engineering controls and the use of adequate materials (physical cut-off of man and machine, model solutions as certified working methods, working appliance according to the state of the art, working appliance for prevention of skin contact, models of working times).

Organisational measures to prevent exposure:

Execution of collective protection measures at source and appropriate organisational measures (local exhaust ventilation, ventilation by technical means, general ventilation, measures on averting a danger at breakdowns / at emergencies / after accidents, first-aid-measures, manner related measures: operating instruction / instruction of employees, occupational medicine health precaution).

Structural measures to prevent exposure:

Execution of individual and personnel protection measures (personal protective equipment - PPE).

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Technical measures and the application of suitable work processes have priority over personal protection equipment.

References for design of technical equipment:

See under section 7.1 - Precautions for safe handling.

Summary of the risk management measures for exposure scenario:

Use only the following product amount per time unit:

No information available.

Minimum room-width and room-height for handling/application:

No information available.

Minimum room ventilation rate for handling/application (air changes per hour):

No information available.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

If required according to hazard assessment:

Suitable eye protection:

Eye glasses with side protection (EN 166)

Recommended eye protection articles:

UVEX I-VO / UVEX I-3 / UVEX SUPER OTG

Or comparable articles from other companies.

##### Hand protection

Skin protection:

Preventive skin protection.:

Draw up skin protection programme.

Before starting work, apply water-resistant skincare preparations.

e.g. saniwip®, dualin® (PETER GREVEN PHYSIODERM)

Wash hands before breaks and after work.

e.g. ecosan®, topscrub® soft / topscrub® extra / topscrub® nature (PETER GREVEN PHYSIODERM)

After cleaning apply high-fat content skin care cream.

e.g. physioderm® creme, cura soft® / cUrea soft® (PETER GREVEN PHYSIODERM)

Apply skin care products after work.

If required according to hazard assessment:

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control



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digits.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Decrease wearing protection gloves to an inevitable degree to avoid skin rash.

Technical and organizational protective actions have to be preferred.

Breakthrough times and swelling properties of the material must be taken into consideration.

Check leak tightness/impermeability prior to use.

Wear cotton undermitten if possible.

Change preventive gloves once by hour or use special skin-protective preparations for protective gloves carrier, e.g. physioderm® proGlove (PETER GREVEN PHYSIODERM)

Take recovery periods for skin regeneration.

Do not wear gloves near rotary machines and tools.

Dispose preventive gloves after defect or expiry of wearing time. Replace when worn.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

Wearing time with permanent contact:

Suitable gloves type

Gloves with long cuffs

Recommended glove articles:

Suitable materials at long term, direct contact (Recommended: Preventive index 6, accordingly > 480 min. permeation time in accordance to EN 374):

Nitrile rubber / NBR (KCL-CAMATRIL VELOURS® - Art. No. 730) - Layer thickness: 0,4 mm

Or comparable articles from other companies.

Unsuitable material:

NR (natural rubber, Natural latex)

Wearing time with occasional contact (splashes):

Suitable gloves type

Disposable gloves

Recommended glove articles:

Suitable materials at short term contact or splash (Recommended: Preventive index 3, accordingly > 60 min. permeation time in accordance to EN 374):

Disposable gloves of special nitrile rubber / NBR (KCL-DERMATRIL® P - Art. No. 743) - Layer thickness: 0,2 mm

Or comparable articles from other companies.

The statements are based on self-tests, literary reference and information of glove manufacturers or have been derived from similar substances by analogy.

Source: CHEMIKALIEN-MANAGER - KCL software for hand protection.

It has to be noticed, that daily time of use of chemical protective gloves may be quite shorter in practice because of many factors of influence (e.g. thermal and mechanical stress as well as special conditions on the floor) than the permeation time determined in accordance to EN 374.

The respective permeation time doubles/halvens at about 1,5 times larger/lower layer thickness.

Declared permeation times according to EN 374 are not carried out under practical conditions. Therefore a maximum wearing time up to 50 % of breakthrough time is recommended.

They relate to the pure solvent as mean component.

Barrier creams are not substitutes for body protection.

#### Skin protection

If required according to hazard assessment:

Suitable protective clothing:

Overall, Natural fibres (e.g. cotton) (EN 340)

Chemical resistant safety shoes with conductible sole (EN ISO 20345)

Wash contaminated clothing prior to re-use.

Used working clothes should not be worn outside the work area.

Street clothing should be stored separately from work clothing.



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#### Respiratory protection

If required according to hazard assessment:

Respiratory protection necessary at:

aerosol or mist formation + exceeding exposure limit values +

high concentrations / prolonged exposure / insufficient ventilation / insufficient exhaust

Use only respiratory protection equipment with CE-symbol including four digit test number.

Filter types: A, B, E, K. Class 1: Maximum permitted contaminant concentration in inhaled air = 1000 mL/m<sup>3</sup> (0.1 % by

vol.); class 2: maximum permitted contaminant concentration in inhaled air = 5000 mL/m<sup>3</sup> (0.5 % by vol.); class 3:

maximum permitted contaminant concentration in inhaled air = 10000 mL/m<sup>3</sup> (1.0 % by vol.)

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may

arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection

apparatus (BGR 190).

The use of filter equipment requires a minimum oxygen content of 17 Vol-% in the surrounding atmosphere and that the maximum permitted gas concentration - normally 0,5 Vol-% - is not exceeded.

Suitable respiratory protection apparatus:

Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a

max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times

the expo.

Recommended respiratory protection articles:

Half mask or quarter mask with combination filter A1P1/A2P2 for gases, vapors and particles. (EN 140, EN 14387)

Filtering half mask or quarter mask with combination filter FFA1 P1/FFA2P2 for gases, vapors and particles. (EN 405)

Model 4251 (FFA1P1 - 1000 ml/m<sup>3</sup>) / 4255 (FFA2P2SL - 5000 ml/m<sup>3</sup>) (3M)

Or comparable articles from other companies.

#### Thermal hazards

No thermal hazards during use of this product.

#### Environmental exposure controls

Environmental exposure controls:

Technical measures to prevent exposure:

Discharge exhaust air only with suitable separators to atmosphere.

Organisational measures to prevent exposure:

Should not be released into the environment.

Structural measures to prevent exposure:

Use the following recovery and/or abatement technique for cleaning waste gases:

Exhaust air scrubber

Adsorption

Further information see under section 6.2 - Environmental precautions.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	blue
Odour:	characteristic
Odour threshold:	No data available

Melting point/freezing point:	< 0 °C	literature value
Boiling point or initial boiling point and boiling range:	> 100 °C	literature value

Flammability

Solid/Liquid:	The product is not: Flammable
Lower explosion limits:	not relevant
Upper explosion limits:	not relevant
Flash point:	not applicable
Auto-ignition temperature:	not relevant



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Decomposition temperature:	Thermally stable.
pH-Value (at 20 °C):	9,5 (30 g/l) DIN 51369
Viscosity / kinematic: (at 40 °C)	<= 20,5 mm <sup>2</sup> /s DIN 53015
Water solubility: (at 20 °C)	miscible
Solubility in other solvents miscible with most organic solvents (Alcohols, aldehydes, Ketone)	
Dissolution rate:	(Nanoform) not relevant
Partition coefficient n-octanol/water:	not applicable (Mixtures)
Dispersion stability:	(Nanoform) not relevant
Vapour pressure: (at 20 °C)	Corresponds to the vapour pressure of water. < literature value 23 hPa
Vapour pressure: (at 50 °C)	Corresponds to the vapour pressure of water. < literature value 123 hPa
Density (at 20 °C):	1,1 g/cm <sup>3</sup> DIN 51757
Relative density:	not determined
Bulk density:	not applicable (Liquid)
Relative vapour density:	not determined
Particle characteristics:	not applicable (Liquid)

**9.2. Other information**

Explosive properties  
No flash point up to 100 °C.

Self-ignition temperature

Solid:

Not pyrophoric.

Gas:

Not pyrophoric.

**Other safety characteristics**

Evaporation rate:	not determined
Solvent separation test:	not applicable
Solvent content:	not determined
Solid content:	not determined
Sublimation point:	not applicable
Softening point:	not applicable
Pour point:	not applicable
Viscosity / dynamic:	not determined
Flow time: (at 23 °C)	> 30 s 3 DIN EN ISO 2431

**Further Information**

Other safety characteristics:

Mechanical sensitivity: No ignition, explosion, self-heating or visible decomposition.

miscibility: Miscible with: Water, Alcohols, aldehydes, Ketone

Conductivity (ASTM D 2624): not determined

Corrosiveness: not applicable

Redox potential: not determined

radical formation potential: not applicable

photocatalytic properties: not applicable

Surface tension: not determined

Molecular weight: not applicable (Mixtures)

Data relevant with regard to physical hazard classes (supplemental):

Explosives

not applicable

Flammable gases

Non-flammable. / not applicable (Liquid)

Aerosols



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Non-flammable. / not applicable (Liquid)  
Oxidising gas  
Not oxidising. / not applicable (Liquid)  
Gases under pressure  
not applicable (Liquid)  
Flammable liquids  
Non-flammable.  
flammable solids  
Non-flammable. / not applicable (Liquid)  
Self-reactive substances and mixtures  
not applicable  
Pyrophoric liquids  
Not pyrophoric.  
Pyrophoric solids  
Not pyrophoric. / not applicable (Liquid)  
self-heating substances and mixtures  
not applicable  
Substances or mixtures which, in contact with water, emit flammable gases  
not applicable  
Oxidising liquids  
Not oxidising.  
Oxidising solids  
Not oxidising. / not applicable (Liquid)  
Organic peroxides  
not applicable  
Corrosive to metals.  
Not corrosive to metals. / not applicable  
Desensitised explosives  
not applicable

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4. Conditions to avoid

Further information see under section 7.2 - Conditions for safe storage, including any incompatibilities.

Further information see under section 10.5 - Incompatible materials.

### 10.5. Incompatible materials

Violent reaction with:

Hazardous substances that release flammable gases when in contact with water

Further information see under section 7.1 - Precautions for safe handling.

### 10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

No known hazardous decomposition products.

Under fire conditions: See under section 5.2 - Special hazards arising from the substance or mixture.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### **Toxicokinetics, metabolism and distribution**

There are no data available on the preparation/mixture itself.

The product has not been tested.

Information on likely routes of exposure /

Symptoms related to the physical, chemical and toxicological characteristics:

See under section 4.2 - Most important symptoms and effects, both acute and delayed.



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Exposure route:

In case of ingestion:

Ingestion causes nausea, weakness and central nervous system effects.

In case of skin contact:

May cause skin irritation in susceptible persons.

Prolonged or repeated skin contact may cause removal of natural fat from the skin resulting in dermatitis (skin inflammation).

Skin sensitisation

In case of inhalation:

slightly irritant but not relevant for classification.

In case of eye contact:

slightly irritant but not relevant for classification.

Conjunctival redness.

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Not relevant

Interactive effects:

Not relevant

Absence of specific data:

No data is available on the product itself. Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several components.

However, some data are not complete regarding particular main components. Nevertheless according to the experience of the manufacturer there are no other hazards expected than those which are already mentioned on the label.

Mixture versus substance information:

Not relevant

**Acute toxicity**

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
108-91-8	cyclohexylamine				
	oral	LD50 300 mg/kg	Rat	Supplier	
	dermal	LD50 275 mg/kg	Rabbit	Supplier	
2682-20-4	2-methylisothiazol-3(2H)-one				
	oral	LD50 120 mg/kg	Rat [female]	ECHA	EPA OPPTS 870.1100
	dermal	LD50 242 mg/kg	Rat	ECHA / Supplier	OECD 402
	inhalation vapour	ATE 0,5 mg/l			
	inhalation (4 h) dust/mist	LC50 0,1 mg/l	Rat [female]	ECHA	OECD 403
2634-33-5	1,2-benzisothiazol-3(2H)-one				
	oral	LD50 490 mg/kg	Rat	ECHA	OECD 401
	dermal	LD50 > 2000 mg/kg	Rat	ECHA	OECD 402
	inhalation vapour	ATE 0,5 mg/l			
	inhalation dust/mist	ATE 0,05 mg/l			

**Irritation and corrosivity**

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

**Sensitising effects**

May cause an allergic skin reaction. (2-methylisothiazol-3(2H)-one; 1,2-benzisothiazol-3(2H)-one)

**Carcinogenic/mutagenic/toxic effects for reproduction**



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

**STOT-single exposure**

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

**STOT-repeated exposure**

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

**Aspiration hazard**

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

**Information on likely routes of exposure**

oral: +

Dermal: +

inhalation: +

Eye contact: +

**11.2. Information on other hazards****Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

---

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

Aquatic toxicity:

Acute (short-term) fish toxicity:

There are no data available on the preparation/mixture itself. The product has not been tested.

Acute (short-term) toxicity to crustacea:

There are no data available on the preparation/mixture itself. The product has not been tested.

Acute (short-term) toxicity to algae and cyanobacteria:

There are no data available on the preparation/mixture itself. The product has not been tested.

Chronic (long-term) toxicity to aquatic invertebrate:

There are no data available on the preparation/mixture itself. The product has not been tested.

Chronic (long-term) fish toxicity:

There are no data available on the preparation/mixture itself. The product has not been tested.

Toxicity to other aquatic plants/organisms:

No data available (Substances/Ingredient)

Terrestrial toxicity:

Acute and subchronic bird toxicity:

No data available (Substances/Ingredient)

Bird reproduction toxicity:

No data available (Substances/Ingredient)

Acute earthworm toxicity:

No data available (Substances/Ingredient)

Chronical earthworm toxicity (reproduction):

No data available (Substances/Ingredient)

Useful insect toxicity:

No data available (Substances/Ingredient)

Acute plant toxicity:

No data available (Substances/Ingredient)

Chronic plant toxicity:

No data available (Substances/Ingredient)

Toxicity to soil macroorganisms except of arthropods:

No data available (Substances/Ingredient)

Effects on soil microorganisms:

No data available (Substances/Ingredient)

Behaviour in waste water treatment plants:

Observe local regulations concerning effluent treatment.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
108-91-8	cyclohexylamine					
	Acute fish toxicity	LC50 19 mg/l	96 h	Oryzias latipes	Supplier / ECHA	OECD 204 [14d]
	Acute algae toxicity	ErC50 29,3 mg/l	72 h	Pseudokirchneriella subcapitata	Supplier / ECHA	OECD 201
	Acute crustacea toxicity	EC50 36,3 mg/l	48 h	Daphnia magna	Supplier / ECHA	OECD 202
	Algae toxicity	NOEC 10,3 mg/l	3 d	Pseudokirchneriella subcapitata	ECHA	OECD 201
	Crustacea toxicity	NOEC 1,6 mg/l	21 d	Daphnia magna	ECHA	OECD 211
	Acute bacteria toxicity	(EC50 2152 mg/l)	3 h	Activated sludge	ECHA	ISO 8192
2682-20-4	2-methylisothiazol-3(2H)-one					
	Acute fish toxicity	LC50 4,77 mg/l	96 h	Oncorhynchus mykiss	ECHA	OECD 203
	Acute algae toxicity	ErC50 0,206 mg/l	96 h	Selenastrum capricornutum	ECHA	OECD 201 [120 h]
	Acute crustacea toxicity	EC50 0,943 mg/l	48 h	Daphnia magna	ECHA	OECD 202
	Fish toxicity	NOEC (2,1) mg/l	33 d	Pimephales promelas	ECHA	OECD 210
	Algae toxicity	NOEC 0,05 mg/l	5 d	Pseudokirchneriella subcapitata	ECHA	OECD 201
	Crustacea toxicity	NOEC 0,044 mg/l	21 d	Daphnia magna	ECHA	OECD 211
	Acute bacteria toxicity	(EC50 34,6 mg/l)	3 h	Activated sludge	Supplier	DIN 38412 part 3
2634-33-5	1,2-benzisothiazol-3(2H)-one					
	Acute fish toxicity	LC50 2,15 mg/l	96 h	Oncorhynchus mykiss	ECHA	OECD 203
	Acute algae toxicity	ErC50 0,110 mg/l	72 h	Pseudokirchneriella subcapitata	ECHA	OECD 201
	Acute crustacea toxicity	EC50 2,9 mg/l	48 h	Daphnia magna	ECHA	OECD 202
	Acute bacteria toxicity	(EC50 12,8 mg/l)	3 h	Activated sludge	Supplier / ECHA	OECD 209

**12.2. Persistence and degradability**

Abiotic degradation:

Physicochemical elimination:

Oxidation:

not applicable (Mixtures)

No data available (Substances/Ingredient)

Hydrolysis:

not applicable (Mixtures)

No data available (Substances/Ingredient)

Photochemical elimination:

Photolysis:

not applicable (Mixtures)

No data available (Substances/Ingredient)

Ozonolysis:

not applicable (Mixtures)

No data available (Substances/Ingredient)

Biodegradation:

not applicable (Mixtures)



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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
108-91-8	cyclohexylamine			
	EU Method C.4-E	92 %	20	Supplier / ECHA
	readily biodegradable			
2682-20-4	2-methylisothiazol-3(2H)-one			
	OECD 307	50 %	0,08	Supplier
	rapidly biodegradable			
	OECD 308	50 %	2,1	Supplier
	rapidly biodegradable			
	OECD 309	50 %	4,1	Supplier
	rapidly biodegradable			
2634-33-5	1,2-benzisothiazol-3(2H)-one			
	OECD 302 B	90 %		Supplier
	biodegradable			
	OECD 303 A	> 70 %		Supplier
	biodegradable			

**12.3. Bioaccumulative potential**

not applicable (Mixtures)

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
108-91-8	cyclohexylamine	3,7
2682-20-4	2-methylisothiazol-3(2H)-one	<= 0,32
2634-33-5	1,2-benzisothiazol-3(2H)-one	0,7

**BCF**

CAS No	Chemical name	BCF	Species	Source
108-91-8	cyclohexylamine	3,162		ECHA
2682-20-4	2-methylisothiazol-3(2H)-one	3,16		Supplier
2634-33-5	1,2-benzisothiazol-3(2H)-one	6,95	Lepomis macrochirus	Supplier / ECHA

**12.4. Mobility in soil**

Surface tension:

See under section 9.1 - Information on basic physical and chemical properties.

Distribution:

Water-air (volatility rate, Henry-constant):

not applicable (Mixtures)

No data available (Substances/Ingredient)

Soil-Water (Adsorption coefficient):

not applicable (Mixtures)

No data available (Substances/Ingredient)

Soil-Air (volatility rate):

not applicable (Mixtures)

No data available (Substances/Ingredient)

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

Ozone depletion potential (ODP):

No data available (Substances/Ingredient)



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Photochemical ozone creation potential (POCP):

No data available (Substances/Ingredient)

Global warming potential (GWP):

No data available (Substances/Ingredient)

AOX: Product does not contain any organic halogens.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Waste treatment options (Recovery operations / Disposal operations):

Transfer to an emulsion fission reactor or an emulsion evaporation system, observing official regulations.

Dispose of waste according to applicable legislation.

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Properties of waste which render it hazardous:

Sensitising [HP 13]

Evidence for disposal must be provided.

Consult the appropriate local waste disposal expert about waste disposal.

Waste for recycling is to be classified and labelled.

For recycling, contact recycling exchanges.

May not be disposed or deposited together with domestic garbage.

Do not mix with other wastes.

Do not flush into surface water or sanitary sewer system.

Do not dispose of waste into sewer.

Before discharge in public drains (e.g. residues of washing- and rinsing liquids) please observe the relevant regulations. In case of further questions please contact your waste- or environmental representative or the responsible authority.

Clean IBCs or drums at approved facility only.

The waste producer is responsible for correct coding and designation of his wastes.

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

The waste code has to be identified in agreement with the disposal company or the competent authority.

List of proposed waste codes/waste designations in accordance with EWC:

#### List of Wastes Code - residues/unused products

120109 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; machining emulsions and solutions free of halogens; hazardous waste

#### List of Wastes Code - used product

120109 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; machining emulsions and solutions free of halogens; hazardous waste

#### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

#### Contaminated packaging

Other disposal recommendations:

Contaminated packages must be completely emptied and can be re-used following proper cleaning.

Cleaning by recycling company.

Recommended cleansing agent:

Clean with detergents. Avoid solvent cleaners.

Handle contaminated packages in the same way as the substance itself.

Non-contaminated packages may be recycled.

Packaging which cannot be properly cleaned must be disposed of.



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As well uncleaned (empty) containers remain contaminated by product residues and may be hazardous by vapours.  
They have to be disposed by specialists or have to be supplied to a licensed reconditioning.  
The conditions of the regional reconditioning companies have to be observed.

**SECTION 14: Transport information****Land transport (ADR/RID)****Other applicable information (land transport)**

Not classified as dangerous in the meaning of transport regulations.

**Inland waterways transport (ADN)****Other applicable information (inland waterways transport)**

Not classified for this transport carrier.

**Marine transport (IMDG)****Other applicable information (marine transport)**

Not classified as dangerous in the meaning of transport regulations.

**Air transport (ICAO-TI/IATA-DGR)****Other applicable information (air transport)**

Not classified as dangerous in the meaning of transport regulations.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

not relevant

**14.7. Maritime transport in bulk according to IMO instruments**

not relevant

**Other applicable information**

not relevant

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 75

2010/75/EU (VOC): not relevant

**Additional information**

Authorisations and/or restrictions on use:

Authorisations:

Authorisation of Chemicals (REACH) as regards Annex XIV:

not relevant

Restrictions on use:

Restriction of chemicals (REACH) as regards annex XVII:

No. 3 - Liquid substances or mixtures in decoration objects to create light or color effects or jokes

No. 75 - Substances in mixtures for use in tattooing

Other regulations (EU):

Regulation (EC) No. 1005/2009 - Substances that deplete the ozone layer:

not relevant

Regulation (EC) No. 648/2004 and No 907/2006 - Detergents:

not relevant

Regulation (EC) No. 649/2012 - Export and import of dangerous chemicals:

not relevant

Regulation (EU) 2019/1021 - Persistent organic pollutants:

not relevant

Regulation (EC) No. 428/2009 and No. 388/2012 and No. 1382/2014 - Control of exports, or transfer, brokering and transit of dual-use goods (Dual-Use Regulation):

not relevant

Regulation (EC) No. 273/2004 - Drug precursors:

not relevant



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Regulation (EC) No. 111/2005 - Definition of rules for the monitoring of trade in drug precursors between the Union and third countries:

not relevant

Regulation (EU) 2019/1148 - Marketing and use of precursors for explosives:

Annex I - Restricted explosives precursors:

not relevant

Annex II - Notification requirements for explosives precursors:

not relevant

Directive 2012/18/EC - Control of major accident hazards involving dangerous substances (Seveso III):

not relevant

Directive 2004/42/EC - Use of organic solvents in certain paints and lacquers:

not relevant

Directive 2010/75/EU - Industrial Emissions Directive (Directive IE) - succession to Directive 1999/13/EC - Limitation of emissions of volatile organic compounds (VOC-Directive):

When using this substance / mixture it has to be checked whether the activities are subject to the requirements of IE-RL, Chapter V (installations and activities with the use of organic solvents - VOC).

Aerosol Directive (75/324/):

not relevant

Biocide directive (98/8/EC):

not relevant

Regulation (EU) No. 528/2012 on biocides

In accordance with Regulation (EU) No. 528/2012 on biocides

This product is a with biocidal products treated article.

Observe in addition any national regulations!

EC-Chemical inventories: All ingredients are listed in EINECS / ELINCS or excepted from listing.

**National regulatory information**

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

**Additional information**

Other regulations, restrictions and prohibition regulations:

ATIEL/ATC Generic Exposure Scenarios (GES) (<http://www.atiel.org/reach/background-exposure-scenarios>,  
<http://www.atiel.org/reach/formulators>):

ATIEL/ATC Use Group(s): E (Metalworking - semi-synthetic machining/grinding fluids - concentrate), F (Metalworking - semi-synthetic machining/grinding fluids - diluted).

European product inventories (Registration status on mixtures):

Kemikalieinspektionen / Produktregistret / Swedish Chemicals Inspectorate - KemI (<http://www.kemi.se>):

This product was not registered.

Schweizerische Eidgenossenschaft - Bundesamt für Gesundheit - BAG (<http://www.bag.admin.ch>) / Anmeldestelle Chemikalien (<http://www.cheminfo.ch>) / Informationssystem für gefährliche und umweltrelevante Stoffe - IGS (<http://igs.naz.ch/index.html>):

This product was registered.



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International chemical inventories (Registration status on substances): No data available

#### **15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

### **SECTION 16: Other information**

#### **Changes**

This version replaces all former issues.

Changes made in this revision see section: 2, 4, 6, 7, 8, 9, 11, 12, 13, 14, 15, 16.

#### **Abbreviations and acronyms**

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CEN: Comité Européen de Normalisation (European Committee for Standardisation).

CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.

C&amp;L: Classification &amp; Labeling.

DNEL: Derived No-Effect Level.

EAK: European Waste Catalogue (replaced by LoW – see below).

ECHA: European Chemicals Agency.

EC: European community.

EINECS: European Inventory of Existing Commercial Chemical Substances.

ELINCS: European List of Notified Chemical Substances.

EN: European standard.

EWC: European Economic Community.

EEA: European Economic Area (EU + Iceland, Liechtenstein and Norway).

EU: European Union.

GES: Generic Exposure Scenario.

GHS: Globally Harmonized System of Classification and Labelling of Chemicals.

IATA-DGR: International Air Transport Association Dangerous Goods Regulations.

IBC-Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (International Bulk Chemical Code).

ICAO-TI: International Civil Aviation Organization Technical Instruction.

IMDG: International Maritime Dangerous Goods.

ISO: A standard of International Standards Organisation.

IUPAC: International Union for Pure and Applied Chemistry.

LoW: List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>).

MARPOL: Maritime Pollution Convention (Convention for the Prevention of Pollution from Ships).

OC: Operational Conditions.

PBT: Persistent, bioaccumulabe and toxic.

PNEC: Predicted No-Effect Concentration.

PPE: Personal Protection Equipment.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals; Regulation (EC) No 1907/2006.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

RMM: Risk Management Measure.

STEL: Short time exposure limit.

SVHC: Substances of Very High Concern.

STOT - RE: Specific Target Organ Toxicity - Repeated Exposure.

STOT - SE: Specific Target Organ Toxicity - Single Exposure.

TWA: Time Weighted Average.

vPvB: Very persistent and very bioaccumulable.

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

#### **Key literature references and sources for data**



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The classification corresponds to current EC-lists, but is completed by statements of technical literature and company data.

Other public accessible sources:

Regulation (EC) No. 1907/2006 (REACH) in the valid version in each case

Regulation (EC) No. 1272/2008 (CLP) in the valid version in each case

Further information and practical guides on the internet:

European Chemicals Agency - ECHA (<http://echa.europa.eu>)

ECHA - Information on Chemicals (<http://echa.europa.eu/information-on-chemicals>)

ECHA - Candidate List of Substances of Very High Concern for Authorisation  
(<http://echa.europa.eu/de/candidate-list-table>)

ECHA - List of restrictions table

(<http://echa.europa.eu/de/addressing-chemicals-of-concern/restrictions/list-of-restrictions/list-of-restrictions-table>)

ECHA - Authorisation List

(<http://echa.europa.eu/hr/addressing-chemicals-of-concern/authorisation/recommendation-for-inclusion-in-the-authorisation-list/authorisation-list>)

ECHA - C&L Inventory (<http://echa.europa.eu/en/web/guest/regulations/clp/cl-inventory>)

eChemPortal (<http://www.echemportal.org>)

The access to European Union law - EUR-Lex (<http://eur-lex.europa.eu>)

Health and Safety Executive (<http://www.hse.gov.uk>) / Control of Substances Hazardous to Health Regulations - COSHH  
(<http://www.coshh-essentials.org.uk/Home.asp>)

Pollution Prevention and Control Act and Pollution Prevention and Control Regulations

**Classification for mixtures and used evaluation method according to GB CLP Regulation**

Classification	Classification procedure
Skin Sens. 1; H317	Calculation method

**Relevant H and EUH statements (number and full text)**

H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H361f	Suspected of damaging fertility.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

**Further Information**

Full text of all R-, H-, EUH-phrases which are referred to in section 2 and 3 of this safety data sheet - see previous list.

These (this) R-, H-, EUH-phrases/R-, H-, EUH-phrase apply/applies to the substance(s) of content, however, it does not necessarily show the classification of the product.

Recommended restriction of application:

See under section 1.2 - Uses advised against.

Use this product only for intended purpose in accordance with our product informations.

Please refer to our internet website for more information (<http://www.acmos.com>).

Training advice:

Yearly briefing and instruction of employees by means of operating instructions according to article 8 of EC-directive 98/24/EC.

Inquiry office: Laboratory (Division: Occupational- /Product security)

Contact person: Mr. Dryhaus (Telephone: +49-421-5189-0, Telefax: +49-421-5189-871)



## Safety Data Sheet

Information following the respective legal area

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Office hours: Mo - Th from 7.30 - 16.15 h and Fr from 7.30 - 13.30 h. Out of office hours no call diversion.

**Disclaimer:**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The information contained herein are, to our knowledge at the time of their creation to be correct and been taken from sources deemed to be reliable. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. The receiver of our product is singularly responsible for adhering to existing laws and regulations. All descriptions are approximate values, they are not specified for construction of specifications. This safety data sheet does not represent any operating instruction according to national chemical regulations. It may be used for creation, but must not replace it. The employer is not relieved from his duties. All technical information to occupational protection are directed predominately to experts first (safety engineers, occupational medicines).