

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 03.09.2018

Page 1 of 16

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

1.1. Product identifier

Opticool 572(E)

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

Use of the substance/mixture

Metal working fluids

Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

| | | |
|--------------------------|-------------------------------|-------------------------------|
| Company name: | Chesterton International GmbH | |
| Street: | Am Lenzenfleck 23 | |
| Place: | DE-85737 Ismaning GERMANY | |
| Telephone: | +49 89 99 65 46 - 0 | Telefax: +49 89 99 65 46 - 50 |
| e-mail: | eu-sds@chesterton.com | |
| e-mail (Contact person): | eu-sds@chesterton.com | |
| Internet: | www.chesterton.com | |
| Responsible Department: | eu-sds@chesterton.com | |

1.4. Emergency telephone number:

+49(0) 551 - 1 92 40 (GIZ-Nord, 24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

Special labelling of certain mixtures

EUH208 Contains 3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate, 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

2.3. Other hazards

No information available.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 03.09.2018

Page 2 of 16

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

| CAS No | Chemical name | | | Quantity |
|------------|--|--------------|------------------|--------------|
| | EC No | Index No | REACH No | |
| | Classification according to Regulation (EC) No. 1272/2008 [CLP] | | | |
| 10043-35-3 | Boric acid | | | < 5,5 % |
| | 233-139-2 | 005-007-00-2 | 01-2119486683-25 | |
| | Repr. 1B; H360FD | | | |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether | | | 1-5 % |
| | 203-961-6 | 603-096-00-8 | 01-2119475104-44 | |
| | Eye Irrit. 2; H319 | | | |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd., ethoxylated | | | 1-2,5 % |
| | 500-236-9 | | 01-2119489407-26 | |
| | Skin Irrit. 2, Aquatic Chronic 2; H315 H411 | | | |
| 55406-53-6 | 3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate | | | 0,1-0,25 % |
| | 259-627-5 | 616-212-00-7 | | |
| | Acute Tox. 3, Acute Tox. 4, Eye Dam. 1, Skin Sens. 1, STOT RE 1, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1 (M-Factor = 1); H331 H302 H318 H317 H372 H400 H410 | | | |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one | | | 0,005-0,05 % |
| | 220-120-9 | 613-088-00-6 | | |
| | Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1; H302 H315 H318 H317 H400 | | | |

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

Further Information

No information available.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove victim out of the danger area. If unconscious place in recovery position and seek medical advice. When in doubt or if symptoms are observed, get medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest. Where appropriate artificial ventilation. In case of respiratory tract irritation, consult a physician.

After contact with skin

Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 03.09.2018

Page 3 of 16

After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

After ingestion

Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person or a person with cramps. Where appropriate artificial ventilation. Do NOT induce vomiting.

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

No information available.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Dry extinguishing powder. Carbon dioxide (CO₂). alcohol resistant foam. Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Nitrogen oxides (NO_x), Carbon dioxide (CO₂), Carbon monoxide, Phosphorus oxides

5.3. Advice for firefighters

Special protective equipment for firefighters: Chemical protection clothing

In case of fire: Wear self-contained breathing apparatus.

Additional information

In case of fire and/or explosion do not breathe fumes. Move undamaged containers from immediate hazard area if it can be done safely. Use water spray jet to protect personnel and to cool endangered containers.

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Remove persons to safety. Avoid contact with skin, eyes and clothes.

Provide adequate ventilation. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Ventilate affected area. Remove all sources of ignition.

6.2. Environmental precautions

Cover drains. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Make sure spills can be contained, e.g. in sump pallets or kerbed areas.

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:

Cover drains. Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control. Prevent spread over a wide area (e.g. by containment or oil barriers).

For cleaning up:

Wipe up with absorbent material (eg. cloth, fleece). Absorb with liquid-binding material (e.g. sand,

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 03.09.2018

Page 4 of 16

diatomaceous earth, acid- or universal binding agents). Take up mechanically, placing in appropriate containers for disposal. Ventilate affected area. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

See protective measures under point 7 and 8.

SECTION 12: Ecological information

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Wear personal protection equipment (refer to section 8). Use only in well-ventilated areas. Handle and open container with care. Always close containers tightly after the removal of product. Avoid contact with skin, eyes and clothes. Do not breathe gas/fumes/vapour/spray. Special danger of slipping by leaking/spilling product. Keep away from sources of ignition - No smoking.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Further information on handling

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Only use containers specifically approved for the substance/product. Protect containers against damage.

Advice on storage compatibility

Do not store together with: Food and feedingstuffs

Keep away from: Oxidising agent

Further information on storage conditions

Recommended storage temperature: 5 - 40°C

Protect against: Heat, UV-radiation/sunlight, Frost

storage stability: ~ 12 Mon

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 03.09.2018

Page 5 of 16

Exposure limits (EH40)

| CAS No | Substance | ppm | mg/m ³ | fibres/ml | Category | Origin |
|----------|---------------------------|-----|-------------------|-----------|---------------|--------|
| 112-34-5 | 2-(2-Butoxyethoxy)ethanol | 10 | 67.5 | | TWA (8 h) | WEL |
| | | 15 | 101.2 | | STEL (15 min) | WEL |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 03.09.2018

Page 6 of 16

DNEL/DMEL values

| CAS No | Substance | Exposure route | Effect | Value |
|--------------------------|--|----------------|----------|-------------------------|
| DNEL type | | | | |
| 10043-35-3 | Boric acid | | | |
| Worker DNEL, long-term | | dermal | systemic | 392 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 4,15 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 196 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 0,98 mg/kg bw/day |
| Worker DNEL, long-term | | inhalation | systemic | 8,3 mg/m ³ |
| Consumer DNEL, acute | | oral | systemic | 0,98 mg/kg bw/day |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether | | | |
| Worker DNEL, long-term | | inhalation | systemic | 67,5 mg/m ³ |
| Worker DNEL, long-term | | inhalation | local | 67,5 mg/m ³ |
| Worker DNEL, acute | | inhalation | local | 101,2 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 83 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 40,5 mg/m ³ |
| Consumer DNEL, long-term | | inhalation | local | 40,5 mg/m ³ |
| Consumer DNEL, acute | | inhalation | local | 60,7 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 50 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 5 mg/kg bw/day |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd., ethoxylated | | | |
| Worker DNEL, long-term | | inhalation | systemic | 294 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 2080 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 87 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 1250 mg/kg bw/day |
| Consumer DNEL, long-term | | oral | systemic | 25 mg/kg bw/day |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one | | | |
| Worker DNEL, long-term | | inhalation | systemic | 6,81 mg/m ³ |
| Worker DNEL, long-term | | dermal | systemic | 0,966 mg/kg bw/day |
| Consumer DNEL, long-term | | inhalation | systemic | 1,2 mg/m ³ |
| Consumer DNEL, long-term | | dermal | systemic | 0,345 mg/kg bw/day |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 03.09.2018

Page 7 of 16

PNEC values

| CAS No | Substance | Value |
|--|--|--------------|
| Environmental compartment | | |
| 10043-35-3 | Boric acid | |
| Freshwater | | 2,9 mg/l |
| Freshwater (intermittent releases) | | 13,7 mg/l |
| Marine water | | 2,9 mg/l |
| Micro-organisms in sewage treatment plants (STP) | | 10 mg/l |
| Soil | | 5,7 mg/kg |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether | |
| Freshwater | | 1,1 mg/l |
| Freshwater (intermittent releases) | | 11 mg/l |
| Marine water | | 0,11 mg/l |
| Freshwater sediment | | 4,4 mg/kg |
| Marine sediment | | 0,44 mg/kg |
| Secondary poisoning | | 56 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 200 mg/l |
| Soil | | 0,32 mg/kg |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd., ethoxylated | |
| Freshwater | | 0,002 mg/l |
| Freshwater (intermittent releases) | | 0,1 mg/l |
| Marine water | | 0,002 mg/l |
| Freshwater sediment | | 6,33 mg/kg |
| Marine sediment | | 6,33 mg/kg |
| Micro-organisms in sewage treatment plants (STP) | | 10000 mg/l |
| Soil | | 1 mg/kg |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one | |
| Freshwater | | 0,011 mg/l |
| Marine water | | 0,0011 mg/l |
| Freshwater sediment | | 0,0499 mg/l |
| Marine sediment | | 0,00499 mg/l |
| Soil | | 3 mg/kg |

8.2. Exposure controls

Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means. Technical measures and the application of suitable work processes have priority over personal protection equipment.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 03.09.2018

Page 8 of 16

Protective and hygiene measures

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

Wash hands before breaks and after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Wash contaminated clothing prior to re-use. Apply skin care products after work.

Eye/face protection

Suitable eye protection:

Eye glasses with side protection
goggles

Hand protection

Tested protective gloves must be worn: DIN EN 374

NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber)

Thickness of the glove material $\geq 0,7$ mm

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

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Wearing time with occasional contact (splashes): max. 480 min. (NBR (Nitrile rubber))

Wearing time with permanent contact 240 - 480 min (NBR (Nitrile rubber))

Observe the wear time limits as specified by the manufacturer.

Skin protection

Wear suitable protective clothing.

Respiratory protection

No special measures are necessary. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Respiratory protection necessary at: insufficient ventilation, aerosol or mist formation

Environmental exposure controls

No special measures are necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|----------------------|----------------|
| Physical state: | liquid |
| Colour: | yellow |
| Odour: | characteristic |
| pH-Value (at 20 °C): | 9,2 |

Changes in the physical state

| | |
|--|----------------|
| Melting point: | not determined |
| Initial boiling point and boiling range: | >100 °C |
| Sublimation point: | not determined |
| Softening point: | not determined |
| Pour point: | not determined |
| Flash point: | >100 °C |

Flammability

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 03.09.2018

Page 9 of 16

Solid: not determined
Gas: not determined

Explosive properties

not explosive according to EU A.14

Lower explosion limits: not determined
Upper explosion limits: not determined
Ignition temperature: not determined

Auto-ignition temperature

Solid: not determined
Gas: not determined

Decomposition temperature: not determined

Oxidizing properties

No information available.

Vapour pressure: not determined

Density (at 20 °C): 1,04 g/cm³

Water solubility:
(at 20 °C) miscible

Solubility in other solvents

No information available.

Partition coefficient: not determined

Viscosity / dynamic: not determined

Viscosity / kinematic:
(at 20 °C) 180 mm²/s

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is stable under storage at normal ambient temperatures.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

Oxidising agent, strong

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 03.09.2018

Page 10 of 16

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

| CAS No | Chemical name | | | | |
|------------|---|----------------------|---------|---|--------------------|
| | Exposure route | Dose | Species | Source | Method |
| 10043-35-3 | Boric acid | | | | |
| | oral | LD50 mg/kg 3450 | Rat | Toxicology and Applied Pharmacology 23: | other: No data |
| | dermal | LD50 mg/kg > 2000 | Rabbit | Study report (1982) | other: FIFRA |
| | inhalation (4 h) aerosol | LC50 mg/l > 2,12 | Rat | Study report (1997) | OECD Guideline 403 |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether | | | | |
| | oral | LD50 mg/kg 2410 | Mouse | Study report (1981) | OECD Guideline 401 |
| | dermal | LD50 mg/kg 2764 | Rabbit | Study report (1981) | OECD Guideline 402 |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd., ethoxylated | | | | |
| | oral | LD50 mg/kg > 2000 | Rat | Study report (1982) | OECD Guideline 401 |
| | dermal | LD50 mg/kg > 2000 | Rabbit | Study report (1982) | OECD Guideline 402 |
| 55406-53-6 | 3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate | | | | |
| | oral | ATE mg/kg 500 | | | |
| | inhalation vapour | ATE 3 mg/l | | | |
| | inhalation aerosol | ATE 0,5 mg/l | | | |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one | | | | |
| | oral | ATE mg/kg 500 | | | |

Irritation and corrosivity

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

Sensitising effects

Contains 3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate, 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

Carcinogenic/mutagenic/toxic effects for reproduction

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 03.09.2018

Page 11 of 16

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.

SECTION 12: Ecological information

12.1. Toxicity

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 03.09.2018

Page 12 of 16

| CAS No | Chemical name | | | | | |
|------------|--|------------------|-----------|---|------------------------------|--|
| | Aquatic toxicity | Dose | [h] [d] | Species | Source | Method |
| 10043-35-3 | Boric acid | | | | | |
| | Acute fish toxicity | LC50 79,7 mg/l | 96 h | Pimephales promelas | Study report (2010) | other: ASTM E729-95 Standard Guide for C |
| | Acute algae toxicity | ErC50 66 mg/l | 72 h | Phaeodactylum tricornutum | Study report (2011) | ISO 10253 |
| | Acute crustacea toxicity | EC50 109 mg/l | 48 h | Ceriodaphnia dubia | Study report (2010) | other: ASTM E729-95 Standard Guide for C |
| | Fish toxicity | NOEC 11,2 mg/l | 32 d | Pimephales promelas | Study report (2010) | other: ASTM E1241-05 Standard Guide for |
| | Algae toxicity | NOEC 17,5 mg/l | 3 d | Pseudokirchneriella subcapitata | Study report (2000) | OECD Guideline 201 |
| | Crustacea toxicity | NOEC 33,1 mg/l | 28 d | Americamysis bahia | Study report (2011) | EPA OPPTS 850.1350 |
| | Acute bacteria toxicity | (> 10000 mg/l) | 3 h | activated sludge of a predominantly domestic sewage | Study report (2001) | OECD Guideline 209 |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether | | | | | |
| | Acute fish toxicity | LC50 1300 mg/l | 96 h | Lepomis macrochirus | J Haz Mat, 1, p303-18 (1977) | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 > 100 mg/l | 96 h | Desmodesmus subspicatus | Study report (1992) | OECD Guideline 201 |
| | Acute crustacea toxicity | EC50 > 100 mg/l | 48 h | Daphnia magna | Study report (1992) | EU Method C.2 |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd., ethoxylated | | | | | |
| | Acute fish toxicity | LC50 108 mg/l | 96 h | Danio rerio | Study report (2008) | OECD Guideline 203 |
| | Acute algae toxicity | ErC50 > 100 mg/l | 72 h | Desmodesmus subspicatus | Study report (1997) | other: EU-Guideline 92/69/EWG |
| | Acute crustacea toxicity | EC50 51 mg/l | 48 h | Daphnia magna | Study report (2000) | OECD Guideline 202 |
| | Fish toxicity | NOEC 0,16 mg/l | 10 d | Lepomis macrochirus | Study report (1995) | The effect of the test substance on surv |
| | Crustacea toxicity | NOEC 0,77 mg/l | 21 d | Daphnia magna | Publication (1999) | other: USEPA-TSCA |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one | | | | | |
| | Acute fish toxicity | LC50 22 mg/l | 96 h | | | |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 03.09.2018

Page 13 of 16

12.2. Persistence and degradability

Moderately/partially biodegradable.

| CAS No | Chemical name | Method | Value | d | Source |
|-----------|--|------------|-------|---|--------|
| | | Evaluation | | | |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one | | | | |
| | OECD 303A Activated sludge S 978 | | >70% | | |
| | OECD 302B Activated sludge S 3509 | | 90% | | |

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

| CAS No | Chemical name | Log Pow |
|------------|--|----------|
| 10043-35-3 | Boric acid | -1,09 |
| 112-34-5 | 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether | 1 |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd., ethoxylated | ca. 6,65 |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one | 0,7 |

BCF

| CAS No | Chemical name | BCF | Species | Source |
|------------|--|-------|---------------------|---------------------|
| 10043-35-3 | Boric acid | 0,558 | Oncorhynchus nerka | Water Research Vol. |
| 68920-66-1 | Alcohols, C16-18 and C18-unsatd., ethoxylated | 387,5 | Pimephales promelas | Publication (2000) |
| 2634-33-5 | 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one | 6,95 | fish | OECD 305 |

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

No information available.

Further information

Do not allow uncontrolled discharge of product into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation.

Contaminated packaging

Dispose of waste according to applicable legislation.

SECTION 14: Transport information

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 03.09.2018

Page 14 of 16

Land transport (ADR/RID)

- 14.1. UN number:** No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

- 14.1. UN number:** No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

- 14.1. UN number:** No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

- 14.1. UN number:** No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No information available.

SECTION 15: Regulatory information

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

EU regulatory information

Authorisations (REACH, annex XIV):

Substances of very high concern, SVHC (REACH, article 59):

Boric acid

Restrictions on use (REACH, annex XVII):

Entry 30: Boric acid

Entry 55: 2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether

National regulatory information

Water contaminating class (D): 2 - clearly water contaminating

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 03.09.2018

Page 15 of 16

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

Boric acid

2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether

SECTION 16: Other information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer

(Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures,

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

EC50: Effect concentration, 50 percent

DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

| Classification | Classification procedure |
|-------------------------|--------------------------|
| Aquatic Chronic 3; H412 | Calculation method |

Relevant H and EUH statements (number and full text)

| | |
|--------|---|
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H360FD | May damage fertility. May damage the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| 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. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH208 | Contains 3-iodo-2-propynyl butylcarbamate; 3-iodoprop-2-yn-1-yl butylcarbamate, 1,2-benzisothiazol-3(2H)-one, 1,2-benzisothiazolin-3-one. May produce an allergic |

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Opticool 572(E)

Revision date: 03.09.2018

Page 16 of 16

reaction.

Further Information

This information is based solely on data provided by suppliers of the materials used, not on the mixture itself.
No warranty is expressed or implied regarding the suitability of the product for the user's particular purpose.
The user must make their own determination as to suitability.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)