

Trade name: edding brilliant paper marker ink (yellow) contained in: edding 30, edding 33

Current version : 3.1.0, issued: 25.02.2020

Replaced version: 3.0.0, issued: 24.02.2020

Region: GB

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

1.1 Product identifier

Trade name

edding brilliant paper marker ink (yellow) contained in: edding 30, edding 33

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

Relevant identified uses of the substance or mixture

Ink for stationery products

Uses advised against

No data available.

1.3 Details of the supplier of the safety data sheet

Address

edding International GmbH

Bookkoppel 7

D-22926 Ahrensburg

Telephone no. +49 (0) 41 02 / 80 8-0

Information provided by / telephone

+49 (0)4102 - 808-0

Advice on Safety Data Sheet

sdb_info@umco.de

1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)30 30686 790 (Giftnotruf Berlin)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Skin Sens. 1; H317

Classification information

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

2.2 Label elements

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

Hazard pictograms



GHS07

Signal word

Warning

Hazardous component(s) to be indicated on label:

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

Hazard statement(s)

H317

May cause an allergic skin reaction.

Precautionary statement(s)

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P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P501 Dispose of contents/container to a facility in accordance with local and national regulations.

2.3 Other hazards

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization

Mixture (preparation)

Hazardous ingredients

| No | Substance name | Additional information | |
|----|---|--|--------------------------|
| | CAS / EC / Index / REACH no | Classification (EC) 1272/2008 (CLP) | Concentration % |
| 1 | ethanediol | | |
| | 107-21-1 203-473-3 603-027-00-1 01-2119456816-28 | Acute Tox. 4; H302 STOT RE 2; H373o | >= 1.00 - < 5.00 % -b.w. |
| 2 | propan-2-ol | | |
| | 67-63-0 200-661-7 603-117-00-0 01-2119457558-25-0085 | Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336 | < 2.50 % -b.w. |
| 3 | ammonia | | |
| | 1336-21-6 215-647-6 007-001-01-2 01-2119488876-14 | Aquatic Acute 1; H400 Skin Corr. 1B; H314 STOT SE 3; H335 | < 2.50 % -b.w. |
| 4 | 1,2-benzisothiazol-3(2H)-one | | |
| | 2634-33-5 220-120-9 613-088-00-6 01-2120761540-60 | Acute Tox. 4; H302 Aquatic Acute 1; H400 Eye Dam. 1; H318 Skin Irrit. 2; H315 Skin Sens. 1; H317 | < 0.50 % -b.w. |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

| No | Note | Specific concentration limits | M-factor (acute) | M-factor (chronic) |
|----|------|--|------------------|--------------------|
| 3 | B | Skin Irrit. 2; H315: C >= 1% Aquatic Chronic 3; H412: C >= 2.5% STOT SE 3; H335: C >= 5% | - | - |
| 4 | - | Skin Sens. 1; H317: C >= 0.05% | M = 10 | - |

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

| No | Route, target organ, concrete effect |
|----|--------------------------------------|
| 1 | H373 oral; kidneys; - |

3.3 Other information

The data subject of this Material Safety Data sheet refer to the ink contained in this product (marker).

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SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of persisting adverse effects, consult a physician. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

After skin contact

Wash off immediately with soap and water.

After eye contact

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Seek medical assistance.

After ingestion

Rinse mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam; Extinguishing powder; Carbon dioxide; Water spray jet

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO)

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g., sand, kieselguhr, universal binder). Send in suitable containers for recovery or disposal.

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

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Provide good ventilation at the work area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Do not inhale vapours. Clean skin thoroughly after work; apply skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from heat and direct sunlight.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

| No | Substance name | CAS no. | EC no. |
|----|---|----------|---------------------------|
| 1 | ethanediol | 107-21-1 | 203-473-3 |
| | 2000/39/EC | | |
| | Ethylene glycol | | |
| | WEL short-term (15 min reference period) | 104 | mg/m ³ 40 ppm |
| | WEL long-term (8-hr TWA reference period) | 52 | mg/m ³ 20 ppm |
| | Skin resorption / sensibilisation | Skin | |
| | List of approved workplace exposure limits (WELs) / EH40 | | |
| | Ethane-1,2-diol vapour | | |
| | WEL short-term (15 min reference period) | 104 | mg/m ³ 40 ppm |
| | WEL long-term (8-hr TWA reference period) | 52 | mg/m ³ 20 ppm |
| | Comments | Sk | |
| | List of approved workplace exposure limits (WELs) / EH40 | | |
| | Ethane-1,2-diol particulate | | |
| | WEL long-term (8-hr TWA reference period) | 10 | mg/m ³ |
| | Comments | Sk | |
| 2 | propan-2-ol | 67-63-0 | 200-661-7 |
| | List of approved workplace exposure limits (WELs) / EH40 | | |
| | Propan-2-ol | | |
| | WEL short-term (15 min reference period) | 1250 | mg/m ³ 500 ppm |
| | WEL long-term (8-hr TWA reference period) | 999 | mg/m ³ 400 ppm |

DNEL, DMEL and PNEC values

DNEL values (worker)

| DNEL values (worker) | | | | | |
|----------------------|-------------------|---------------------|----------|------------------------|-----------|
| No | Substance name | | | CAS / EC no | |
| | Route of exposure | Exposure time | Effect | Value | |
| 1 | ethanediol | | | 107-21-1 203-473-3 | |
| | dermal | Long term (chronic) | systemic | 106 | mg/kg/day |
| | inhalative | Long term (chronic) | local | 35 | mg/m³ |
| 2 | propan-2-ol | | | 67-63-0 200-661-7 | |
| | dermal | Long term (chronic) | systemic | 888 | mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 500 | mg/m³ |
| 3 | ammonia | | | 1336-21-6 215-647-6 | |

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| | | | | | |
|---|-------------------------------------|---------------------|----------|--------------------------------------|-------------------|
| | dermal | Short term (acute) | systemic | 6.8 | mg/kg/day |
| | with reference to: CAS 7664-41-7 | | | | |
| | dermal | Long term (chronic) | systemic | 6.8 | mg/kg/day |
| | with reference to: CAS 7664-41-7 | | | | |
| | inhalative | Short term (acute) | systemic | 47.6 | mg/m ³ |
| | with reference to: CAS 7664-41-7 | | | | |
| | inhalative | Short term (acute) | local | 36 | mg/m ³ |
| | with reference to: CAS 7664-41-7 | | | | |
| | inhalative | Long term (chronic) | systemic | 47.6 | mg/m ³ |
| | with reference to: CAS 7664-41-7 | | | | |
| | inhalative | Long term (chronic) | local | 14 | mg/m ³ |
| | with reference to: CAS 7664-41-7 | | | | |
| 4 | 1,2-benzisothiazol-3(2H)-one | | | 2634-33-5 220-120-9 | |
| | dermal | Long term (chronic) | systemic | 0.966 | mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 6.81 | mg/m ³ |

DNEL value (consumer)

| No | Substance name | | | CAS / EC no | |
|----|-------------------------------------|---------------------|----------|--------------------------------------|-------------------|
| | Route of exposure | Exposure time | Effect | Value | |
| 1 | ethanediol | | | 107-21-1 203-473-3 | |
| | dermal | Long term (chronic) | systemic | 53 | mg/kg/day |
| | inhalative | Long term (chronic) | local | 7 | mg/m ³ |
| 2 | propan-2-ol | | | 67-63-0 200-661-7 | |
| | oral | Long term (chronic) | systemic | 26 | mg/kg/day |
| | dermal | Long term (chronic) | systemic | 319 | mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 89 | mg/m ³ |
| 3 | ammonia | | | 1336-21-6 215-647-6 | |
| | oral | Short term (acute) | systemic | 6.8 | mg/kg/day |
| | with reference to: CAS 7664-41-7 | | | | |
| | oral | Long term (chronic) | systemic | 6.8 | mg/kg/day |
| | with reference to: CAS 7664-41-7 | | | | |
| | dermal | Short term (acute) | systemic | 68 | mg/kg/day |
| | with reference to: CAS 7664-41-7 | | | | |
| | dermal | Long term (chronic) | systemic | 68 | mg/kg/day |
| | with reference to: CAS 7664-41-7 | | | | |
| | inhalative | Short term (acute) | systemic | 23.8 | mg/m ³ |
| | with reference to: CAS 7664-41-7 | | | | |
| | inhalative | Short term (acute) | local | 7.2 | mg/m ³ |
| | with reference to: CAS 7664-41-7 | | | | |
| | inhalative | Long term (chronic) | systemic | 23.8 | mg/m ³ |
| | with reference to: CAS 7664-41-7 | | | | |
| | inhalative | Long term (chronic) | local | 2.8 | mg/m ³ |
| | with reference to: CAS 7664-41-7 | | | | |
| 4 | 1,2-benzisothiazol-3(2H)-one | | | 2634-33-5 220-120-9 | |
| | dermal | Long term (chronic) | systemic | 0.345 | mg/kg/day |
| | inhalative | Long term (chronic) | systemic | 1.2 | mg/m ³ |

PNEC values

| No | Substance name | | CAS / EC no | |
|----|------------------------|-------------------|-------------------------------------|------|
| | ecological compartment | Type | Value | |
| 1 | ethanediol | | 107-21-1 203-473-3 | |
| | water | fresh water | 10 | mg/L |
| | water | marine water | 1 | mg/L |
| | water | Aqua intermittent | 10 | mg/L |

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| | | | | |
|---|--|-----------------------|--------------------------------|------------------|
| | water | fresh water sediment | 37 | mg/kg dry weight |
| | water | marine water sediment | 3.7 | mg/kg dry weight |
| | soil | - | 1.53 | mg/kg |
| | sewage treatment plant | - | 199.5 | mg/L |
| 2 | propan-2-ol | | 67-63-0 200-661-7 | |
| | water | fresh water | 140.9 | mg/L |
| | water | marine water | 140.9 | mg/L |
| | water | fresh water sediment | 552 | mg/L |
| | water | marine water sediment | 552 | mg/L |
| | water | Aqua intermittent | 140.9 | |
| | soil | - | 28 | mg/kg |
| | sewage treatment plant | - | 2251 | mg/L |
| | secondary poisoning with reference to: food | - | 160 | mg/kg |
| 3 | ammonia | | 1336-21-6 215-647-6 | |
| | water | fresh water | 0.0011 | mg/L |
| | with reference to: CAS: 7664-41-7 | | | |
| | water | marine water | 0.0011 | mg/L |
| | with reference to: CAS: 7664-41-7 | | | |
| | water | Aqua intermittent | 0.0068 | mg/L |
| | with reference to: CAS: 7664-41-7 | | | |
| 4 | 1,2-benzisothiazol-3(2H)-one | | 2634-33-5 220-120-9 | |
| | water | fresh water | 11 | µg/L |
| | water | marine water | 1.1 | µg/L |
| | water | fresh water sediment | 49.9 | µg/kg dry weight |
| | water | marine water sediment | 4.99 | µg/kg dry weight |
| | soil | - | 3 | mg/kg dry weight |
| | sewage treatment plant | - | 1.03 | mg/L |

8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

Safety glasses with side protection shield (EN 166)

Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | | | |
|--|---------|-----|----|
| Form/Colour | | | |
| liquid | | | |
| yellow | | | |
| Odour | | | |
| No data available | | | |
| Odour threshold | | | |
| No data available | | | |
| pH value | | | |
| No data available | | | |
| Boiling point / boiling range | | | |
| Value | appr. | 100 | °C |
| Melting point / melting range | | | |
| No data available | | | |
| Decomposition point / decomposition range | | | |
| No data available | | | |
| Flash point | | | |
| No data available | | | |
| Auto-ignition temperature | | | |
| No data available | | | |
| Oxidising properties | | | |
| No data available | | | |
| Explosive properties | | | |
| No data available | | | |
| Flammability (solid, gas) | | | |
| No data available | | | |
| Lower flammability or explosive limits | | | |
| No data available | | | |
| Upper flammability or explosive limits | | | |
| No data available | | | |
| Vapour pressure | | | |
| No data available | | | |
| Vapour density | | | |
| No data available | | | |
| Evaporation rate | | | |
| No data available | | | |
| Relative density | | | |
| No data available | | | |
| Density | | | |
| No data available | | | |
| Solubility in water | | | |
| Comments | soluble | | |
| Solubility(ies) | | | |
| No data available | | | |

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| Partition coefficient: n-octanol/water | | | |
|--|------------------------------|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | propan-2-ol | 67-63-0 | 200-661-7 |
| log Pow | | 0.05 | |
| Reference temperature | | 25 | °C |
| Source | | ECHA | |
| 2 | 1,2-benzisothiazol-3(2H)-one | 2634-33-5 | 220-120-9 |
| log Pow | | 0.7 | |
| Reference temperature | | 20 | °C |
| Method | | EEC A8 | |
| Source | | ECHA | |

| Viscosity | |
|-------------------|--|
| No data available | |

9.2 Other information

| Other information |
|--------------------|
| No data available. |

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

| Acute oral toxicity (result of the ATE calculation for the mixture) | |
|---|---|
| No | Product Name |
| 1 | edding brilliant paper marker ink (yellow) contained in: edding 30, edding 33 |
| Comments | The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg). |

| Acute oral toxicity | | | |
|---------------------------|----------------|---|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | propan-2-ol | 67-63-0 | 200-661-7 |
| LD50 | | 5840 | mg/kg bodyweight |
| Species | | rat | |
| Method | | OECD 401 | |
| Source | | ECHA | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| 2 | ammonia | 1336-21-6 | 215-647-6 |
| LD50 | | 350 | mg/kg bodyweight |

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| | | | |
|---|------------------------------|--|------------------|
| Species with reference to Method Source | | rat CAS 7664-41-7 OECD 401 ECHA | |
| 3 | 1,2-benzisothiazol-3(2H)-one | 2634-33-5 | 220-120-9 |
| LD50 | | 670 | mg/kg bodyweight |
| Species | | rat | |
| Method | | OECD 401 | |
| Source | | ECHA | |

| Acute dermal toxicity | | | |
|-----------------------|-------------------------------------|------------------|-----------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | 1,2-benzisothiazol-3(2H)-one | 2634-33-5 | 220-120-9 |
| LD50 | | > | 2000 mg/kg bodyweight |
| Species | rat | | |
| Method | OECD 402 | | |
| Source | ECHA | | |

| Acute inhalational toxicity | | | |
|-----------------------------|---|----------------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | propan-2-ol | 67-63-0 | 200-661-7 |
| LC50 | | > | 10000 ppmV |
| Duration of exposure | | 6 | h |
| State of aggregation | Gas | | |
| Species | rat | | |
| Method | OECD 403 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

| Skin corrosion/irritation | | | |
|---------------------------|---|------------------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | ethanediol | 107-21-1 | 203-473-3 |
| Duration of exposure | | 20 | h |
| Species | rabbit | | |
| Source | ECHA | | |
| Evaluation | non-irritant | | |
| 2 | propan-2-ol | 67-63-0 | 200-661-7 |
| Species | rabbit | | |
| Source | ECHA | | |
| Evaluation | non-irritant | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |
| 3 | ammonia | 1336-21-6 | 215-647-6 |
| Duration of exposure | | 4 | h |
| Species | rabbit | | |
| with reference to | CAS 7664-41-7 | | |
| Method | OECD 404 | | |
| Source | ECHA | | |
| Evaluation | corrosive | | |
| 4 | 1,2-benzisothiazol-3(2H)-one | 2634-33-5 | 220-120-9 |
| Duration of exposure | | 4 | h |
| Species | rabbit | | |
| Method | EPA OPP 81-5 | | |
| Source | ECHA | | |
| Evaluation | irritant | | |

| Serious eye damage/irritation | | | |
|-------------------------------|-------------------|-----------------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | ethanediol | 107-21-1 | 203-473-3 |
| Duration of exposure | | 24 | h |
| Species | rabbit | | |
| Source | ECHA | | |
| Evaluation | non-irritant | | |

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| 2 | propan-2-ol | 67-63-0 | 200-661-7 |
|---------------------------|---|-----------|-----------|
| Species | rabbit | | |
| Method | OECD 405 | | |
| Source | ECHA | | |
| Evaluation | irritant | | |
| Evaluation/classification | Based on available data, the classification criteria are met. | | |
| 3 | 1,2-benzisothiazol-3(2H)-one | 2634-33-5 | 220-120-9 |
| Species | rabbit | | |
| Method | EPA OPP 81-4 | | |
| Source | ECHA | | |
| Evaluation | corrosive | | |

| Respiratory or skin sensitisation | | | |
|-----------------------------------|------------------------------|---|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | ethanediol | 107-21-1 | 203-473-3 |
| Route of exposure | | Skin | |
| Species | | Human | |
| Source | | ECHA | |
| Evaluation | | non-sensitizing | |
| 2 | propan-2-ol | 67-63-0 | 200-661-7 |
| Route of exposure | | Skin | |
| Species | | guinea pig | |
| Method | | OECD 406 | |
| Source | | ECHA | |
| Evaluation | | non-sensitizing | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |
| 3 | 1,2-benzisothiazol-3(2H)-one | 2634-33-5 | 220-120-9 |
| Route of exposure | | Skin | |
| Species | | guinea pig | |
| Method | | OECD 406 | |
| Source | | ECHA | |
| Evaluation | | sensitizing | |

| Germ cell mutagenicity | | | |
|---------------------------|---|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | ethanediol | 107-21-1 | 203-473-3 |
| Type of examination | Bacterial Reverse Mutation Test | | |
| Species | Salmonella typhimurium | | |
| Method | OECD 471 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |
| 2 | propan-2-ol | 67-63-0 | 200-661-7 |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |
| 3 | ammonia | 1336-21-6 | 215-647-6 |
| Duration of exposure | 48 h | | |
| Type of examination | Bacterial Reverse Mutation Test | | |
| Species | Salmonella typhimurium TA98, TA100, TA1535, TA1537 | | |
| with reference to | CAS 7664-41-7 | | |
| Method | OECD 471 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |
| 4 | 1,2-benzisothiazol-3(2H)-one | 2634-33-5 | 220-120-9 |
| Species | mouse lymphoma cells | | |
| Method | OECD 476 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

| Reproduction toxicity | | | |
|-----------------------|------------------------------|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | 1,2-benzisothiazol-3(2H)-one | 2634-33-5 | 220-120-9 |

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| | | |
|---------|--------------------|------------|
| NOAEL | 112 | mg/kg bw/d |
| Species | rat | |
| Method | EPA OPPTS 870.3800 | |
| Source | ECHA | |

Carcinogenicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

| No | Substance name | CAS no. | EC no. |
|---------------------------|---|-----------|------------|
| 1 | ethanediol | 107-21-1 | 203-473-3 |
| Route of exposure | | oral | |
| NOAEL | | 150 | mg/kg bw/d |
| Duration of exposure | | 12 | months |
| Species | rat | | |
| Target organ | kidneys | | |
| Method | OECD 452 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are met. | | |
| 2 | 1,2-benzisothiazol-3(2H)-one | 2634-33-5 | 220-120-9 |
| NOAEL | | 69 | mg/kg bw/d |
| Duration of exposure | | 90 | day(s) |
| Method | EPA OPP 82-1 | | |
| Source | ECHA | | |
| Evaluation/classification | Based on available data, the classification criteria are not met. | | |

Aspiration hazard

No data available

SECTION 12: Ecological information
12.1 Toxicity

| Toxicity to fish (acute) | | | |
|--------------------------|------------------------------|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | ethanediol | 107-21-1 | 203-473-3 |
| LC50 | > | 72860 | mg/l |
| Duration of exposure | | 96 | h |
| Species | Pimephales promelas | | |
| Source | ECHA | | |
| 2 | propan-2-ol | 67-63-0 | 200-661-7 |
| LC50 | | 9640 | mg/l |
| Duration of exposure | | 96 | h |
| Species | Pimephales promelas | | |
| Method | OECD 203 | | |
| Source | ECHA | | |
| 3 | 1,2-benzisothiazol-3(2H)-one | 2634-33-5 | 220-120-9 |
| LC50 | | 2.18 | mg/l |
| Duration of exposure | | 96 | h |
| Species | Oncorhynchus mykiss | | |
| Method | OECD 203 | | |
| Source | ECHA | | |

Toxicity to fish (chronic)

No data available

| Toxicity to Daphnia (acute) | | | |
|-----------------------------|----------------|----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | ethanediol | 107-21-1 | 203-473-3 |
| EC50 | > | 100 | mg/l |

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| | | |
|----------------------|-------------------------------------|-----------------------------------|
| Duration of exposure | 48 | h |
| Species | Daphnia magna | |
| Method | OECD 202 | |
| Source | ECHA | |
| 2 | 1,2-benzisothiazol-3(2H)-one | 2634-33-5 220-120-9 |
| EC50 | 2.94 | mg/l |
| Duration of exposure | 48 | h |
| Species | Daphnia magna | |
| Method | OECD 202 | |
| Source | ECHA | |

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

| Toxicity to aquatic (acute) | | | |
|-----------------------------|------------------------------|-----------|-----------|
| No | Substance name | CAS no. | EC no. |
| 1 | 1,2-benzisothiazol-3(2H)-one | 2634-33-5 | 220-120-9 |
| ErC50 | | 150 | µg/l |
| Duration of exposure | | 72 | h |
| Species | Selenastrum capricornutum | | |
| Method | OECD 201 | | |
| Source | ECHA | | |

Toxicity to algae (chronic)

No data available

Bacteria toxicity

| No | Substance name | CAS no. | EC no. |
|----------------------|------------------------------|-----------|-----------|
| 1 | 1,2-benzisothiazol-3(2H)-one | 2634-33-5 | 220-120-9 |
| EC50 | | 13 | mg/l |
| Duration of exposure | | 3 | h |
| Species | activated sludge | | |
| Method | OECD 209 | | |
| Source | ECHA | | |

12.2 Persistence and degradability

| Biodegradability | | | |
|-------------------------|-------------------------------------|------------------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | ethanediol | 107-21-1 | 203-473-3 |
| Type | DOC decrease | | |
| Value | 90 | - 100 | % |
| Duration | | 10 | day(s) |
| Method | OECD 301 A | | |
| Source | ECHA | | |
| Evaluation | readily degradable | | |
| 2 | propan-2-ol | 67-63-0 | 200-661-7 |
| Type | BOD/COD | | |
| Value | | 53 | % |
| Duration | | 5 | day(s) |
| Source | ECHA | | |
| Evaluation | readily biodegradable | | |
| 3 | 1,2-benzisothiazol-3(2H)-one | 2634-33-5 | 220-120-9 |
| Value | | 85 | % |
| Duration | | 63 | day(s) |
| Method | OECD 301 C | | |
| Source | ECHA | | |
| Evaluation | not readily biodegradable | | |

12.3 Bioaccumulative potential

| Partition coefficient: n-octanol/water | | | |
|---|--------------------|----------------|------------------|
| No | Substance name | CAS no. | EC no. |
| 1 | propan-2-ol | 67-63-0 | 200-661-7 |

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| | | |
|-----------------------|-------------------------------------|----------------------------|
| log Pow | 0.05 | |
| Reference temperature | 25 | °C |
| Source | ECHA | |
| 2 | 1,2-benzisothiazol-3(2H)-one | 2634-33-5 220-120-9 |
| log Pow | 0.7 | |
| Reference temperature | 20 | °C |
| Method | EEC A8 | |
| Source | ECHA | |

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

12.7 Other information

| |
|--|
| Other information |
| Do not discharge product unmonitored into the environment. |

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

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

Not relevant

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

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According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.

No 3

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

SECTION 16: Other information
Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

| | |
|-------|---|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H373o | May cause damage to organs through prolonged or repeated exposure if swallowed. |
| H400 | Very toxic to aquatic life. |

Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

| | |
|---|---|
| B | Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ... %'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis. |
|---|---|

Department issuing safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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