

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Alkalinity-P (BaCl2) Tablet Count

Revision date 01-08-2025

Revision Number 1

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

1.1. Product identifier

Product Code(s) PPHAPBACL

Product Name Alkalinity-P (BaCl2) Tablet Count

Unique Formula Identifier (UFI) 6T32-FKJ4-8Y02-MHGM

Pure substance/mixture Mixture Contains Barium chloride (BaCl2), dihydrate

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

Uses advised against Others

1.3. Details of the supplier of the safety data sheet

Manufacturer

Water-i.d. GmbH Daimlerstr. 20 76344 Eggenstein, Germany Tel.: +49 (0) 721 78 20 29 0, Fax: +49 (0) 721 78 20 29 11 Website: www.water-id.com EHS / Compliance: lab@water-id.com

1.4. Emergency telephone number

Emergency Telephone

+44 1235 239670 English, Albanian, Bosnian, Bulgarian, Croatian, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Romanian, Russian, Serbian, Slovak, Spanish, Swedish, Turkish and Ukrainian.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

| Regulation (EC) No 1272/2008 | |
|---|---------------------|
| Acute toxicity - Oral | Category 3 - (H301) |
| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 - (H332) |

2.2. Label elements

Contains Barium chloride (BaCl2), dihydrate



Signal word Danger

Hazard statements

H301 - Toxic if swallowed H332 - Harmful if inhaled

Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing dust, fume, gas, mist, vapors and spray
P264 - Wash face, hands and any exposed skin thoroughly after handling
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
P312 - Call a POISON CENTER or doctor if you feel unwell
P501 - Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable

Additional information

This product requires tactile warnings if supplied to the general public. This product requires child resistant fastenings if supplied to the general public.

2.3. Other hazards

Harmful to aquatic life.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

| Chemical name | Weight-% | REACH registration number | EC No (EU Index No) | Classification according to Regulation (EC) No. 1272/2008 [CLP] | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|---|----------|------------------------------|------------------------|--|--|----------|-------------------------|
| Barium chloride (BaCl2), dihydrate 10326-27-9 | 70-90 | No data available | - | Acute Tox. 3 (H301) Acute Tox. 4 (H332) | | | |
| Cellulose 9004-34-6 | 10-20 | No data available | 232-674-9 | Not classified | | | |
| Magnesium stearate 557-04-0 | <1 | No data available | 209-150-3 | No data available | | | |

Full text of H- and EUH-phrases: see section 16

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 - 4 | Inhalation LC50 - 4 | Inhalation LC50 - 4 |
|--------------------------|-----------|-------------|-------------------------|----------------------|---------------------|
| | mg/kg | mg/kg | hour - dust/mist - mg/L | hour - vapour - mg/L | hour - gas - ppm |
| Barium chloride (BaCl2), | 118 | | | | |
| dihydrate | | | | | |
| 10326-27-9 | | | | | |

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| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 - 4 | Inhalation LC50 - 4 | Inhalation LC50 - 4 |
|------------------------|-----------|-------------|-------------------------|----------------------|---------------------|
| | mg/kg | mg/kg | hour - dust/mist - mg/L | hour - vapour - mg/L | hour - gas - ppm |
| Cellulose 9004-34-6 | 5000 | 2000 | 5.8 | | |

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

| General advice | Show this safety data sheet to the doctor in attendance. | | | |
|---|---|--|--|--|
| Inhalation | If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. If symptoms persist, call a doctor. | | | |
| Eye contact | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor. | | | |
| Skin contact | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor. | | | |
| Ingestion | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention. | | | |
| Self-protection of the first aider | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing dust/fume/gas/mist/vapours/spray. Use personal protective equipment as required. See section 8 for more information. | | | |
| 4.2. Most important symptoms and | effects, both acute and delayed | | | |
| Symptoms | Coughing and/ or wheezing. Difficulty in breathing. | | | |
| 4.3. Indication of any immediate medical attention and special treatment needed | | | | |
| Note to doctors | Treat symptomatically. | | | |

| SECTION 5: | Firefighting | measures |
|------------|--------------|----------|
|------------|--------------|----------|

5.1. Extinguishing media

| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
|--|--|
| Large Fire | CAUTION: Use of water spray when fighting fire may be inefficient. |
| Unsuitable extinguishing media | Do not scatter spilled material with high pressure water streams. |
| 5.2. Special hazards arising from th | e substance or mixture |
| Specific hazards arising from the chemical | No information available. |
| 5.3. Advice for firefighters | |
| Special protective equipment and precautions for fire-fighters | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| Personal precautions | Ensure adequate ventilation. Avoid generation of dust. Do not breathe dust. Use personal protective equipment as required. |
|--------------------------------------|--|
| Other information | Refer to protective measures listed in Sections 7 and 8. |
| For emergency responders | Use personal protection recommended in Section 8. |
| 6.2. Environmental precautions | |
| Environmental precautions | See Section 12 for additional Ecological Information. |
| 6.3. Methods and material for contai | nment and cleaning up |
| Methods for containment | Prevent further leakage or spillage if safe to do so. |
| Methods for cleaning up | Take up mechanically, placing in appropriate containers for disposal. |
| Prevention of secondary hazards | Clean contaminated objects and areas thoroughly observing environmental regulations. |
| 6.4. Reference to other sections | |
| Reference to other sections | See section 8 for more information. See section 13 for more information. |

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| Advice on safe handling | Handle in accordance with good industrial hygiene and safety practice. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid generation of dust. Ensure adequate ventilation. Do not eat, drink or smoke when using this product. |
|---------------------------------------|---|
| General hygiene considerations | Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. |
| 7.2. Conditions for safe storage, inc | cluding any incompatibilities |
| Storage Conditions | Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. |
| 7.3. Specific end use(s) | |

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

| Chemical name | European Union | Austria | Belgium | Bulgaria | Croatia |
|--------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Barium chloride (BaCl2), | TWA: 0.5 mg/m ³ |
| dihydrate | | STEL 2 mg/m ³ | | | |
| 10326-27-9 | | | | | |
| Cellulose | - | - | TWA: 10 mg/m ³ | - | TWA: 10 mg/m ³ |
| 9004-34-6 | | | - | | TWA: 4 mg/m ³ |

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| | | | | | | STEL: 20 mg/m ³ |
|---|---|--|---|---|--|----------------------------|
| Magnesium stearate 557-04-0 | - | - | TWA: 10 mg/m ³ | - | | - |
| Chemical name | Cyprus | Czech Republic | Denmark | Es | tonia | Finland |
| Barium chloride (BaCl2), dihydrate 10326-27-9 | TWA: 0.5 mg/m ³ | TWA: 0.5 mg/m ³ Ceiling: 2.5 mg/m ³ | TWA: 0.5 mg/m³ | TWA: 0.5 mg/m ³ | | TWA: 0.5 mg/m ³ |
| Cellulose 9004-34-6 | - | - | TWA: 1 mg/m ³ | TWA: ′ | 10 mg/m ³ | TWA: 2 mg/m ³ |
| Chemical name | France | Germany TRGS | Germany DFG | | eece | Hungary |
| Barium chloride (BaCl2), dihydrate 10326-27-9 | TWA: 0.5 mg/m ³ | TWA: 0.5 mg/m ³ | TWA: 0.5 mg/m ³ Peak: 4 mg/m ³ | TWA: 0 |).5 mg/m³ | TWA: 0.5 mg/m ³ |
| Cellulose 9004-34-6 | TWA: 10 mg/m ³ | - | - | TWA: | 5 mg/m³ | TWA: 3 mg/m ³ |
| Chemical name | Ireland | Italy MDLPS | Italy AIDII | | atvia | Lithuania |
| Barium chloride (BaCl2), dihydrate 10326-27-9 | TWA: 0.5 mg/m ³ STEL: 1.5 mg/m ³ | TWA: 0.5 mg/m ³ | TWA: 0.5 mg/m ³ | TWA: 0.5 mg/m ³ * | | TWA: 0.5 mg/m ³ |
| Cellulose 9004-34-6 | TWA: 10 mg/m ³ STEL: 30 mg/m ³ | - | TWA: 10 mg/m ³ | TWA: 2 mg/m ³ | | - |
| Magnesium stearate 557-04-0 | TWA: 10 mg/m ³ STEL: 30 mg/m ³ | - | TWA: 10 mg/m ³ TWA: 3 mg/m ³ | - | | TWA: 5 mg/m ³ |
| Chemical name | Luxembourg | Malta | Netherlands | No | orway | Poland |
| Barium chloride (BaCl2), dihydrate 10326-27-9 | TWA: 0.5 mg/m ³ | - | TWA: 0.5 mg/m ³ | STEL: | 1.5 mg/m ³ | TWA: 0.5 mg/m ³ |
| Cellulose 9004-34-6 | - | - | - | | - | TWA: 2.0 mg/m ³ |
| Chemical name | Portugal | Romania | Slovakia | | venia | Spain |
| Barium chloride (BaCl2), dihydrate 10326-27-9 | TWA: 0.5 mg/m ³ | TWA: 0.5 mg/m ³ | TWA: 0.5 mg/m ³ | |).5 mg/m³ TEL mg/m³ | TWA: 0.5 mg/m ³ |
| Cellulose 9004-34-6 | TWA: 10 mg/m ³ | TWA: 10 mg/m ³ | - | | - | TWA: 10 mg/m ³ |
| Magnesium stearate 557-04-0 | TWA: 10 mg/m ³ | - | - | | - | TWA: 10 mg/m ³ |
| Chemical name | S | weden | Switzerland | | Uni | ted Kingdom |
| Barium chloride (BaCl dihydrate 10326-27-9 | | 0.5 mg/m ³ | TWA: 0.5 mg/m STEL: 4 mg/m | m ³ TWA: 0.5 mg/m ³ | | |
| Cellulose 9004-34-6 | | : 2 mg/m³ | TWA: 4 mg STEL: 20 m | | A: 10 mg/m ³ /A: 4 mg/m ³ EL: 20 mg/m ³ EL: 12 mg/m ³ | |
| Magnesium stearate 557-04-0 | NGV | : 5 mg/m³ | - | - | | - |

Biological occupational exposure limits

| Chemical name | Denmark | Finland | France | Germany DFG | Germany TRGS |
|--------------------------|---------|---------|--------|------------------------|--------------|
| Barium chloride (BaCl2), | - | - | - | 10 µg/L - BAR (end | - |
| dihydrate | | | | of exposure or end | |
| 10326-27-9 | | | | of shift) urine | |
| | | | | 10 µg/L - BAR (for | |
| | | | | long-term | |
| | | | | exposures: at the | |
| | | | | end of the shift after | |
| | | | | several shifts) urine | |

Derived No Effect Level (DNEL) No information available. Predicted No Effect Concentration (PNEC)

8.2. Exposure controls

| Eye/face protection | No special protective equipment required. |
|---------------------------------|--|
| Skin and body protection | No special protective equipment required. |
| Respiratory protection | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |
| General hygiene considerations | Avoid breathing dust/fume/gas/mist/vapours/spray. Do not eat, drink or smoke when using this product. |
| Environmental exposure controls | No information available. |

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Physical state Solid

| Physical state | Solid | |
|---------------------------------|-------------------|--------------------------|
| Appearance | Powder | |
| Colour | light pink | |
| Odour | Odourless. | |
| Odour threshold | | |
| Property | Values | Remarks • Method |
| Melting point / freezing point | No data available | None known |
| Boiling point / boiling range | No data available | None known |
| Flammability (solid, gas) | No data available | None known |
| Flammability Limit in Air | | None known |
| Upper flammability or explosive | No data available | |
| limits | | |
| Lower flammability or explosive | No data available | |
| limits | | |
| Flash point | No data available | None known |
| Autoignition temperature | No data available | None known |
| Decomposition temperature | | None known |
| рН | No data available | None known |
| pH (as aqueous solution) | No data available | No information available |
| Kinematic viscosity | No data available | None known |
| Dynamic viscosity | No data available | None known |
| Water solubility | No data available | None known |
| Solubility(ies) | No data available | None known |
| Partition coefficient | No data available | None known |
| Vapour pressure | No data available | None known |
| Relative density | No data available | None known |
| Bulk density | No data available | |
| Liquid Density | No data available | |
| Relative vapour density | No data available | None known |
| Particle characteristics | | |
| Particle Size | | |
| Particle Size Distribution | | |
| | | |

9.2. Other information

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9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics

SECTION 10: Stability and reactivity

| 10.1. Reactivity | | |
|--|---|--|
| Reactivity | No information available. | |
| 10.2. Chemical stability | | |
| Stability | Stable under normal conditions. | |
| Explosion data Sensitivity to mechanical impac Sensitivity to static discharge | t None. None. | |
| 10.3. Possibility of hazardous reactions | | |
| Possibility of hazardous reactions | None under normal processing. | |
| 10.4. Conditions to avoid | | |
| Conditions to avoid | Excessive heat. | |
| 10.5. Incompatible materials | | |
| Incompatible materials | None known based on information supplied. | |
| 10.6. Hazardous decomposition products | | |

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Information on likely routes of exposure

Product Information

| Inhalation | Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components). |
|----------------------------------|---|
| Eye contact | Specific test data for the substance or mixture is not available. |
| Skin contact | Specific test data for the substance or mixture is not available. |
| Ingestion | Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components). |
| Symptoms related to the physical | , chemical and toxicological characteristics |
| Symptoms | Coughing and/ or wheezing. |

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

| ATEmix (oral) | 135.20 mg/kg |
|-------------------------------|----------------|
| ATEmix (dermal) | 2,137.70 mg/kg |
| ATEmix (inhalation-dust/mist) | 1.66 mg/l |

Unknown acute toxicity

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------------------------------|-------------------|-----------------------|-------------------------|
| Barium chloride (BaCl2), dihydrate | = 118 mg/kg (Rat) | | > 1.1 mg/L (Rat)243 min |
| Cellulose | > 5 g/kg (Rat) | > 2000 mg/kg (Rabbit) | > 5800 mg/m³(Rat)4 h |

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

| Skin corrosion/irritation | No information available. | |
|------------------------------------|---------------------------|--|
| Serious eye damage/eye irritation | No information available. | |
| Respiratory or skin sensitisation | No information available. | |
| Germ cell mutagenicity | No information available. | |
| Carcinogenicity | No information available. | |
| Reproductive toxicity | No information available. | |
| STOT - single exposure | No information available. | |
| STOT - repeated exposure | No information available. | |
| Aspiration hazard | No information available. | |
| 11.2. Information on other hazards | | |
| 11.2.1. Endocrine disrupting prope | erties | |
| Endocrine disrupting properties | | |
| 11.2.2. Other information | | |
| Other adverse effects | | |
| SECTION 12: Ecological information | | |
| | | |

12.1. Toxicity

Ecotoxicity

Harmful to aquatic life.

Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---------------------------------------|----------------------|------|-------------------------------|---|
| Barium chloride (BaCl2), dihydrate | - | - | - | EC50: =14.5mg/L (48h, Daphnia magna) |

12.2. Persistence and degradability

Persistence and degradability

12.3. Bioaccumulative potential

Bioaccumulation No information available.

12.4. Mobility in soil

Mobility in soil

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

| Chemical name | PBT and vPvB assessment |
|------------------------------------|---------------------------------|
| Barium chloride (BaCl2), dihydrate | The substance is not PBT / vPvB |

12.6. Endocrine disrupting properties

Endocrine disrupting properties

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| Waste from residues/unused products | Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
|--|---|
| Contaminated packaging | Do not reuse empty containers. |

SECTION 14: Transport information

| ΙΑΤΑ | _ | |
|-----------|-----|---|
| 14.1 | UN | I |
| 1 - 1 - 1 | 011 | ľ |

| 14.1 UN number or ID number | UN1564 |
|-----------------------------------|---|
| 14.2 UN proper shipping name | Barium compound, n.o.s. |
| 14.3 Transport hazard class(es) | 6.1 |
| 14.4 Packing group | III |
| Description | UN1564, Barium compound, n.o.s., 6.1, III |
| 14.5 Environmental hazards | Not applicable |
| 14.6 Special precautions for user | |
| Special Provisions | A3, A82 |
| ERG Code | 6L |
| <u>IMDG</u> | |

Notes

No components found suitable for Technical Name.

| 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description 14.5 Marine pollutant 14.6 Special precautions for user Special Provisions EmS-No 14.7 Maritime transport in bulk according to IMO instruments | UN1564 Barium compound, n.o.s. 6.1 III UN1564, Barium compound, n.o.s., 6.1, III NP 177, 223, 274 F-A, S-A |
|--|--|
| RID Notes14.1 UN number or ID number14.2 UN proper shipping name14.3 Transport hazard class(es)14.4 Packing group Description14.5 Environmental hazards14.6 Special precautions for user Special Provisions Classification code | No components found suitable for Technical Name. UN1564 Barium compound, n.o.s. 6.1 III UN1564, Barium compound, n.o.s., 6.1, III Not applicable 177, 274, 513, 587 T5 |
| ADR Notes 14.1 UN number or ID number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing group Description 14.5 Environmental hazards 14.6 Special precautions for user Special Provisions Classification code Tunnel restriction code | No components found suitable for Technical Name. UN1564 Barium compound, n.o.s. 6.1 III UN1564, Barium compound, n.o.s., 6.1, III, (E) Not applicable 177, 274, 513, 587 T5 (E) |

SECTION 15: Regulatory information

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

National regulations

France

Occupational Illnesses (R-463-3, France)

| Chemical name | French RG number | Title |
|---------------|------------------|-------|
| Cellulose | RG 66 | - |
| 9004-34-6 | | |

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) Regulation (EU) 2024/590 Not applicable

| International Inventories | |
|---------------------------|-----------------|
| TSCA | Complies |
| DSL/NDSL | Does not comply |
| EINECS/ELINCS | Does not comply |
| ENCS | Does not comply |
| IECSC | Complies |
| KECL | Does not comply |
| PICCS | Does not comply |
| AICS | Does not comply |

Legend:

 TSCA
 - United States Toxic Substances Control Act Section 8(b) Inventory

 DSL/NDSL
 - Canadian Domestic Substances List/Non-Domestic Substances List

 EINECS/ELINCS
 - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

 ENCS
 - Japan Existing and New Chemical Substances

 IECSC
 - China Inventory of Existing Chemical Substances

 KECL
 - Korean Existing and Evaluated Chemical Substances

 PICCS
 - Philippines Inventory of Chemicals and Chemical Substances

 AICS
 - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

Chemical Safety Report

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of any hazard and/or precautionary statements referred to under Sections 2-15

H301 - Toxic if swallowed

H332 - Harmful if inhaled

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
|---------|-----------------------------|------|----------------------------------|
| Ceiling | Maximum limit value | * | Skin designation |

| Classification procedure | |
|---|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used |
| Acute oral toxicity | Calculation method |
| Acute dermal toxicity | Calculation method |
| Acute inhalation toxicity - gas | Calculation method |
| Acute inhalation toxicity - Vapour | Calculation method |
| Acute inhalation toxicity - dust/mist | Calculation method |
| Skin corrosion/irritation | Calculation method |
| Serious eye damage/eye irritation | Calculation method |
| Respiratory sensitisation | Calculation method |
| Skin sensitisation | Calculation method |
| Mutagenicity | Calculation method |
| Carcinogenicity | Calculation method |

| Reproductive toxicity | Calculation method |
|--------------------------|--------------------|
| STOT - single exposure | Calculation method |
| STOT - repeated exposure | Calculation method |
| Acute aquatic toxicity | Calculation method |
| Chronic aquatic toxicity | Calculation method |
| Aspiration hazard | Calculation method |
| Ozone | Calculation method |

Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fundicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme Organisation for Economic Co-operation and Development Screening Information Data Set World Health Organization

Revision date 01-08-2025

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

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

End of Safety Data Sheet