

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

Phosphate ULR No.2 Photometer

Revision date 01-03-2025 Revision Number 1

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

1.1. Product identifier

Product Code(s) PPPPPULR2

Product Name Phosphate ULR No.2 Photometer

Unique Formula Identifier (UFI) PM8N-0HW0-FT1T-VC91

Pure substance/mixture Mixture

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

Recommended use Reagent for water analysis

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

Serious eye damage/eye irritation Category 1 - (H318)

2.2. Label elements



Signal word

Danger

Hazard statements

H318 - Causes serious eye damage

EUH031 - Contact with acids liberates toxic gas

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

P280 - Wear eye and face protection

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

P310 - Immediately call a POISON CENTER or doctor

2.3. Other hazards

No information available.

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) |
|---|----------|---------------------------|------------------------|---|------------------------------------|----------|-------------------------|
| Sodium metabisulfite 7681-57-4 | 1-10 | No data available | 231-673-0 | Acute Tox. 4 (H302) Eye Dam. 1 (H318) (EUH031) | | | |
| Molybdate, hexaammonium, tetrahydrate 12054-85-2 | 1-5 | No data available | - | Not classified | | | |
| Antimonate(2-), bis[.mu(2,3-dihydr oxybutanedioato(4-) -O1,O2:O3,O4)]di-, dipotassium, trihydrate, stereoisomer 28300-74-5 | | No data available | - | Acute Tox. 4 (H302) Acute Tox. 4 (H332) Aquatic Chronic 2 (H411) | | | |

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 |
| Sodium metabisulfite 7681-57-4 | 1310 | 2000 | | | |
| Molybdate, hexaammonium, tetrahydrate 12054-85-2 | 333 | 2000 | | | |

| 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 |
| Antimonate(2-), bis[.mu(2,3-dihydroxybu tanedioato(4-)-O1,O2:O3, O4)]di-, dipotassium, trihydrate, stereoisomer 28300-74-5 | | | | | |

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 Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

Eye contact Get immediate medical attention. Rinse immediately with plenty of water, also under the

eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue

rinsing. Keep eye wide open while rinsing. Do not rub affected area.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical

attention if irritation develops and persists.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce

vomiting. Call a doctor.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

Symptoms Burning sensation.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

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 the 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.

Revision date 01-03-2025

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Other information Refer to protective measures listed in Sections 7 and 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment 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 contact with

skin, eyes or clothing. Do not eat, drink or smoke when using this product.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do

not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

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 |
|----------------------|----------------|---------------------------|----------------------------|-----------------------------|----------------------------|
| Sodium metabisulfite | - | - | TWA: 5 mg/m ³ | - | TWA: 5 mg/m ³ |
| 7681-57-4 | | | | | |
| Molybdate, | - | TWA: 5 mg/m ³ | TWA: 0.5 mg/m ³ | TWA: 5.0 mg/m ³ | TWA: 5 mg/m ³ |
| hexaammonium, | | STEL 10 mg/m ³ | | TWA: 10.0 mg/m ³ | STEL: 10 mg/m ³ |
| tetrahydrate | | | | | |

| 10051.05.0 | | 1 | | Ĭ | |
|---|--|--|--|---------------------------------------|--|
| 12054-85-2 Antimonate(2-), bis[.mu(2,3-dihydroxybu tanedioato(4-)-O1,O2:O3, O4)]di-, dipotassium, | - | TWA: 0.5 mg/m ³ STEL 1.5 mg/m ³ | TWA: 0.5 mg/m ³ | - | TWA: 0.5 mg/m ³ |
| trihydrate, stereoisomer | | | | | |
| 28300-74-5 Chemical name | Cyprus | Czech Republic | Denmark | Estonia | Finland |
| Sodium metabisulfite | - Cypius | - Czecii Kepublic | TWA: 5 mg/m ³ | ESIOIIIA | - Fillianu |
| 7681-57-4 | | | TVV/ (: O mg/m | | |
| Molybdate, hexaammonium, tetrahydrate 12054-85-2 | - | TWA: 5 mg/m ³ Ceiling: 25 mg/m ³ | TWA: 5 mg/m ³ | TWA: 5 mg/m ³ | TWA: 0.5 mg/m ³ |
| Antimonate(2-), bis[.mu(2,3-dihydroxybu tanedioato(4-)-O1,O2:O3, O4)]di-, dipotassium, trihydrate, stereoisomer 28300-74-5 | • | TWA: 0.5 mg/m ³ Ceiling: 1.5 mg/m ³ | TWA: 0.5 mg/m ³ | - | TWA: 0.5 mg/m ³ |
| Chemical name | France | Germany TRGS | Germany DFG | Greece | Hungary |
| Sodium metabisulfite 7681-57-4 | TWA: 5 mg/m ³ | - | - | TWA: 5 mg/m ³ | - |
| Molybdate, hexaammonium, tetrahydrate 12054-85-2 | TWA: 5 mg/m ³ STEL: 10 mg/m ³ | - | - | TWA: 5 mg/m³ | TWA: 5 mg/m³ |
| Antimonate(2-), bis[.mu(2,3-dihydroxybu tanedioato(4-)-O1,O2:O3, O4)]di-, dipotassium, trihydrate, stereoisomer 28300-74-5 | TWA: 0.5 mg/m ³ | - | - | TWA: 0.5 mg/m ³ | - |
| 20000710 | | | | | |
| Chemical name | Ireland | Italy MDLPS | Italy AIDII | Latvia | Lithuania |
| Chemical name Sodium metabisulfite | TWA: 5 mg/m ³ | Italy MDLPS | Italy AIDII TWA: 5 mg/m ³ | Latvia - | Lithuania - |
| Chemical name Sodium metabisulfite 7681-57-4 | TWA: 5 mg/m ³ STEL: 15 mg/m ³ | Italy MDLPS - | TWA: 5 mg/m ³ | - | - |
| Chemical name Sodium metabisulfite | TWA: 5 mg/m ³ | Italy MDLPS | TWA: 5 mg/m ³ TWA: 0.5 mg/m ³ | Latvia - - | Lithuania - TWA: 5 mg/m³ TWA: 10 mg/m³ |
| Chemical name Sodium metabisulfite 7681-57-4 Molybdate, hexaammonium, tetrahydrate 12054-85-2 Antimonate(2-), bis[.mu(2,3-dihydroxybu tanedioato(4-)-O1,O2:O3, O4)]di-, dipotassium, trihydrate, stereoisomer 28300-74-5 | TWA: 5 mg/m ³ STEL: 15 mg/m ³ TWA: 10 mg/m ³ TWA: 0.5 mg/m ³ STEL: 30 mg/m ³ | - | TWA: 5 mg/m ³ TWA: 0.5 mg/m ³ TWA: 0.5 mg/m ³ | - | TWA: 5 mg/m³ TWA: 10 mg/m³ |
| Chemical name Sodium metabisulfite 7681-57-4 Molybdate, hexaammonium, tetrahydrate 12054-85-2 Antimonate(2-), bis[.mu(2,3-dihydroxybu tanedioato(4-)-O1,O2:O3, O4)]di-, dipotassium, trihydrate, stereoisomer 28300-74-5 Chemical name | TWA: 5 mg/m ³ STEL: 15 mg/m ³ TWA: 10 mg/m ³ TWA: 0.5 mg/m ³ STEL: 30 mg/m ³ STEL: 1.5 mg/m ³ TWA: 0.5 mg/m ³ | - - Malta | TWA: 5 mg/m ³ TWA: 0.5 mg/m ³ | - - Norway | - TWA: 5 mg/m ³ |
| Chemical name Sodium metabisulfite 7681-57-4 Molybdate, hexaammonium, tetrahydrate 12054-85-2 Antimonate(2-), bis[.mu(2,3-dihydroxybu tanedioato(4-)-O1,O2:O3, O4)]di-, dipotassium, trihydrate, stereoisomer 28300-74-5 Chemical name Sodium metabisulfite | TWA: 5 mg/m³ STEL: 15 mg/m³ TWA: 10 mg/m³ TWA: 0.5 mg/m³ STEL: 30 mg/m³ STEL: 1.5 mg/m³ TWA: 0.5 mg/m³ STEL: 1.5 mg/m³ | - | TWA: 5 mg/m ³ TWA: 0.5 mg/m ³ TWA: 0.5 mg/m ³ | - | TWA: 5 mg/m³ TWA: 10 mg/m³ |
| Chemical name Sodium metabisulfite 7681-57-4 Molybdate, hexaammonium, tetrahydrate 12054-85-2 Antimonate(2-), bis[.mu(2,3-dihydroxybu tanedioato(4-)-O1,O2:O3, O4)]di-, dipotassium, trihydrate, stereoisomer 28300-74-5 Chemical name Sodium metabisulfite 7681-57-4 Molybdate, hexaammonium, tetrahydrate | TWA: 5 mg/m³ STEL: 15 mg/m³ TWA: 10 mg/m³ TWA: 0.5 mg/m³ STEL: 30 mg/m³ STEL: 1.5 mg/m³ TWA: 0.5 mg/m³ STEL: 1.5 mg/m³ | - - Malta | TWA: 5 mg/m ³ TWA: 0.5 mg/m ³ TWA: 0.5 mg/m ³ | - - Norway | TWA: 5 mg/m³ TWA: 10 mg/m³ |
| Chemical name Sodium metabisulfite 7681-57-4 Molybdate, hexaammonium, tetrahydrate 12054-85-2 Antimonate(2-), bis[.mu(2,3-dihydroxybu tanedioato(4-)-O1,O2:O3, O4)]di-, dipotassium, trihydrate, stereoisomer 28300-74-5 Chemical name Sodium metabisulfite 7681-57-4 Molybdate, hexaammonium, tetrahydrate 12054-85-2 Antimonate(2-), bis[.mu(2,3-dihydroxybu tanedioato(4-)-O1,O2:O3, O4)]di-, dipotassium, trihydrate, stereoisomer 28300-74-5 | TWA: 5 mg/m³ STEL: 15 mg/m³ TWA: 10 mg/m³ TWA: 0.5 mg/m³ STEL: 30 mg/m³ STEL: 1.5 mg/m³ TWA: 0.5 mg/m³ TWA: 0.5 mg/m³ | - - Malta | TWA: 5 mg/m³ TWA: 0.5 mg/m³ TWA: 0.5 mg/m³ Netherlands TWA: 0.5 mg/m³ | Norway STEL: 10 mg/m³ STEL: 1.5 mg/m³ | - TWA: 5 mg/m³ TWA: 10 mg/m³ - Poland - STEL: 10 mg/m³ TWA: 4 mg/m³ |
| Chemical name Sodium metabisulfite 7681-57-4 Molybdate, hexaammonium, tetrahydrate 12054-85-2 Antimonate(2-), bis[.mu(2,3-dihydroxybu tanedioato(4-)-O1,O2:O3, O4)]di-, dipotassium, trihydrate, stereoisomer 28300-74-5 Chemical name Sodium metabisulfite 7681-57-4 Molybdate, hexaammonium, tetrahydrate 12054-85-2 Antimonate(2-), bis[.mu(2,3-dihydroxybu tanedioato(4-)-O1,O2:O3, O4)]di-, dipotassium, trihydrate, stereoisomer 28300-74-5 Chemical name | TWA: 5 mg/m³ STEL: 15 mg/m³ TWA: 10 mg/m³ TWA: 0.5 mg/m³ STEL: 30 mg/m³ STEL: 1.5 mg/m³ TWA: 0.5 mg/m³ | - Malta - | TWA: 5 mg/m³ TWA: 0.5 mg/m³ TWA: 0.5 mg/m³ Netherlands - | Norway STEL: 10 mg/m³ | - TWA: 5 mg/m³ TWA: 10 mg/m³ - Poland - STEL: 10 mg/m³ TWA: 4 mg/m³ |
| Chemical name Sodium metabisulfite 7681-57-4 Molybdate, hexaammonium, tetrahydrate 12054-85-2 Antimonate(2-), bis[.mu(2,3-dihydroxybu tanedioato(4-)-O1,O2:O3, O4)]di-, dipotassium, trihydrate, stereoisomer 28300-74-5 Chemical name Sodium metabisulfite 7681-57-4 Molybdate, hexaammonium, tetrahydrate 12054-85-2 Antimonate(2-), bis[.mu(2,3-dihydroxybu tanedioato(4-)-O1,O2:O3, O4)]di-, dipotassium, trihydrate, stereoisomer 28300-74-5 | TWA: 5 mg/m³ STEL: 15 mg/m³ TWA: 10 mg/m³ TWA: 0.5 mg/m³ STEL: 30 mg/m³ STEL: 1.5 mg/m³ TWA: 0.5 mg/m³ TWA: 0.5 mg/m³ | - Malta | TWA: 5 mg/m³ TWA: 0.5 mg/m³ TWA: 0.5 mg/m³ Netherlands TWA: 0.5 mg/m³ | Norway STEL: 10 mg/m³ STEL: 1.5 mg/m³ | - TWA: 5 mg/m³ TWA: 10 mg/m³ - Poland - STEL: 10 mg/m³ TWA: 4 mg/m³ |

| hexaammonium, tetrahydrate 12054-85-2 | | | STEL: 5 mg/m ³ | | | |
|---|-----|-------------------------------|---------------------------|----------------------------|---------------|-----------------------------|
| Antimonate(2-), bis[.mu(2,3-dihydroxybu tanedioato(4-)-O1,O2:O3, O4)]di-, dipotassium, trihydrate, stereoisomer 28300-74-5 | TWA | : 0.5 mg/m ³ | - | TWA: 0.5 mg/m ³ | 1 | TWA: 0.5 mg/m ³ |
| Chemical name | | Sı | veden | Switzerland | Un | ited Kingdom |
| Sodium metabisulfite 7681-57-4 | | | - | TWA: 5 mg/m ³ | | NA: 5 mg/m³ EL: 15 mg/m³ |
| Molybdate, hexaammoni tetrahydrate 12054-85-2 | um, | NGV: 5 mg/m³ NGV: 10 mg/m³ | | TWA: 5 mg/m ³ | T\ | VA: 5 mg/m³ |
| Antimonate(2-), bis[.mu(2,3-dihydroxybutanedi oato(4-)-O1,O2:O3,O4)]di-, dipotassium, trihydrate, stereoisomer 28300-74-5 | | 0.25 mg/m ³ | - | TW | /A: 0.5 mg/m³ | |

Biological occupational exposure limits

| Chemical name | Denmark | Finland | France | Germany DFG | Germany TRGS |
|---------------|---------|---------|--------|---------------------|--------------|
| Molybdate, | - | - | - | 150 μg/L - BAR (not | - |
| hexaammonium, | | | | determined) urine | |
| tetrahydrate | | | | | |
| 12054-85-2 | | | | | |

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

8.2. Exposure controls

Personal protective equipment

Eye/face protection Tight sealing safety goggles.

Hand protection Wear suitable gloves.

Skin and body protection Wear suitable protective clothing.

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 contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. 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 Appearance Powder

PPPPULR2 - Phosphate ULR No.2 Photometer

Revision date 01-03-2025

white light yellow Colour Odour Odourless.

Odour threshold

Values_ Remarks • Method **Property**

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 No data available None known **Autoignition temperature Decomposition temperature** None known

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 No data available None known

Relative density No data available **Bulk density** No data available **Liquid Density**

Relative vapour density No data available None known

Particle characteristics

Particle Size

Particle Size Distribution

9.2. Other information

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

No information available. Reactivity

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None. Sensitivity to static discharge

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

None known based on information supplied. Conditions to avoid

10.5. Incompatible materials

Revision date 01-03-2025

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

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.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye

damage. May cause irreversible damage to eyes.

Skin contact Specific test data for the substance or mixture is not available. May cause irritation.

Ingestion Specific test data for the substance or mixture is not available. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhoea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness.

Numerical measures of toxicity

Acute toxicity

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

 ATEmix (oral)
 2,145.30 mg/kg

 ATEmix (dermal)
 2,019.20 mg/kg

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|--------------------|--------------------|---------------------|
| Sodium metabisulfite | = 1310 mg/kg (Rat) | > 2000 mg/kg (Rat) | |
| Molybdate, hexaammonium, tetrahydrate | = 333 mg/kg (Rat) | > 2000 mg/kg (Rat) | > 5.1 mg/L (Rat)4 h |
| Antimonate(2-), bis[.mu(2,3-dihydroxybutanedi oato(4-)-O1,O2:O3,O4)]di-, dipotassium, trihydrate, stereoisomer | = 115 mg/kg(Rat) | | |

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

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Risk of serious

damage to eyes.

Respiratory or skin sensitisation No information available.

PPPPPULR2 - Phosphate ULR No.2 Photometer

Revision date 01-03-2025

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 properties

Endocrine disrupting properties

11.2.2. Other information

Other adverse effects

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Unknown aquatic toxicity

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

| Chemical name | Algae/aquatic plants | Fish | Toxicity to | Crustacea |
|----------------------|----------------------|----------------------|----------------|-----------|
| | | | microorganisms | |
| Sodium metabisulfite | EC50: =40mg/L (96h, | LC50: =32mg/L (96h, | - | - |
| | Desmodesmus | Lepomis macrochirus) | | |
| | subspicatus) | , | | |
| | EC50: =48mg/L (72h, | | | |
| | Desmodesmus | | | |
| | subspicatus) | | | |

12.2. Persistence and degradability

Persistence and degradability

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

| Chemical name | Partition coefficient |
|----------------------|-----------------------|
| Sodium metabisulfite | -3.7 |

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 |
|---------------------------------------|---|
| Sodium metabisulfite | The substance is not PBT / vPvB PBT assessment does |
| | not apply |
| Molybdate, hexaammonium, tetrahydrate | 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

| | _ | |
|---|---|---|
| Δ | | Δ |
| | | |

14.1 UN number or ID number Not regulated

14.2

14.3 Transport hazard class(es) Not regulated 14.4 Packing group Not regulated Not applicable 14.5 Environmental hazards

14.6 Special precautions for user

Special Provisions None

IMDG

14.1 UN number or ID number Not regulated

Not regulated 14.3 Transport hazard class(es) 14.4 Packing group Not regulated Not applicable 14.5 Marine pollutant

14.6 Special precautions for user

Special Provisions None

14.7 Maritime transport in bulk

according to IMO instruments

RID

14.1 UN number or ID number Not regulated

14.2

14.3 Transport hazard class(es) Not regulated Not regulated 14.4 Packing group 14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions None

ADR

14.1 UN number or ID number Not regulated

14.2

Revision date 01-03-2025

14.3 Transport hazard class(es)
 14.4 Packing group
 14.5 Environmental hazards
 Not regulated Not regulated Not applicable

14.6 Special precautions for user

Special Provisions None

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 |
|----------------------|------------------|-------|
| Sodium metabisulfite | RG 66 | - |
| 7681-57-4 | | |

Water hazard class (WGK)

slightly hazardous to water (WGK 1)

Netherlands

| Chemical name | Netherlands - List of | Netherlands - List of | Netherlands - List of |
|---------------------------------------|-----------------------|-----------------------|-----------------------|
| | Carcinogens | Carcinogens | Reproductive Toxins |
| Molybdate, hexaammonium, tetrahydrate | - | - | Fertility Category 2 |

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

Complies **TSCA DSL/NDSL** Does not comply Does not comply **EINECS/ELINCS** Does not comply **ENCS IECSC** Complies Does not comply **KECL PICCS** Complies **AICS** Complies

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

EUH031 - Contact with acids liberates toxic gas

H302 - Harmful if swallowed

H318 - Causes serious eye damage

H332 - Harmful if inhaled

H411 - Toxic to aquatic life with long lasting effects

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, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

PPPPPULR2 - Phosphate ULR No.2 Photometer

Revision date 01-03-2025

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

01-03-2025

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