# Corrosion Inhibitor WP 2212

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830
Reference number: Periodic review of SDS 03/08/2026
Issue date: 28/02/2022 Revision date: 03/08/2023 Supersedes version of: 18/03/2022 Version: 1.2

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

### 1.1. Product identifier

| | | |
|---|---|---|
| Product form | : | Mixture |
| Trade name | : | Corrosion Inhibitor WP 2212 |
| Product code | : | WP 2212 |
| Type of product | : | Blend based on solvents and on corrosion inhibitor |
| Product group | : | Blend |

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

#### 1.2.1. Relevant identified uses

Intended for general public

| | | |
|---|---|---|
| Main use category | : | Professional use,Consumer use |
| Use of the substance/mixture | : | Corrosion Inhibitor |

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Wessex Chemical Factors Ltd
17 Crane Way
Woolsbridge Industrial Park
Three Legged Cross
Wimborne
Dorset
BH21 6FA
Telephone: +44 (0) 1202 823 699
E-mail address: info@wessexchemicalfactors.co.uk
www.wessexchemicalfactors.co.uk

### 1.4. Emergency telephone number

| | | |
|---|---|---|
| Emergency number | : | In the event of a medical incident involving this product, please contact your doctor or local hospital accident and emergency department. If you urgently need medical help or advice but it's not a life-threatening situation, call 111 free from any phone to speak to an NHS adviser. Customer Service (Technical) +44 (0) 1202 823 699 |

| Country | Organisation/Company | Address | Emergency number | Comment |
|---|---|---|---|---|
| United Kingdom | NHS 111/NHS 24/NHS Direct | | 111<br>0845 4647 | or call a doctor |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

| | |
|---|---|
| Acute toxicity (oral), Category 4 | H302 |
| Skin sensitisation, Category 1 | H317 |

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

#### Adverse physicochemical, human health and environmental effects

Harmful if swallowed.

## 2.2. Label elements

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

Hazard pictograms (CLP) :

GHS07

Signal word (CLP) : Warning

Contains : sodium nitrite; 2-methyl-2H-isothiazol-3-one

Hazard statements (CLP) : H302 - Harmful if swallowed.
H317 - May cause an allergic skin reaction.

Precautionary statements (CLP) : P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P261 - Avoid breathing mist, spray, vapours.
P264 - Wash hands thoroughly after handling.
P280 - Wear eye protection, protective gloves, protective clothing.
P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Child-resistant fastening : Not applicable

Tactile warning : Applicable

## 2.3. Other hazards

Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

# SECTION 3: Composition/information on ingredients

## 3.1. Substances

Not applicable

## 3.2. Mixtures

| Name | Product identifier | Conc. (% w/w) | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| sodium nitrite | CAS-No.: 7632-00-0<br>EC-No.: 231-555-9<br>EC Index-No.: 007-010-00-4<br>REACH-no: 01-2119471836-27-XXXX | 3 – 5 | Ox. Sol. 3, H272<br>Acute Tox. 3 (Oral), H301<br>Skin Irrit. 2, H315<br>Aquatic Acute 1, H400 (M=1) |
| disodium molybdate dihydrate | CAS-No.: 10102-40-6<br>EC-No.: 231-551-7<br>REACH-no: 01-2119489495-21-0007 | 1 – 3 | Not classified |
| sodium benzoate | CAS-No.: 532-32-1<br>EC-No.: 208-534-8 | 0.1 – 0.3 | Eye Irrit. 2, H319 |
| acyl amido carboxylic acid, alkanol amine salt | - | < 0.3 | Not classified |
| monopropylene glycol (MPG) | CAS-No.: 57-55-6<br>EC-No.: 200-338-0<br>REACH-no: 01-2119456809-23-XXXX | 0.01 – 0.1 | Not classified |
| propan-2-ol; isopropyl alcohol; isopropanol | CAS-No.: 67-63-0<br>EC-No.: 200-661-7<br>EC Index-No.: 603-117-00-0<br>REACH-no: 01-2119457558-25-XXXX | 0.01 – 0.1 | Flam. Liq. 2, H225<br>Eye Irrit. 2, H319<br>STOT SE 3, H336 |

| Name | Product identifier | Conc. (% w/w) | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|---|---|
| benzotriazole | CAS-No.: 95-14-7<br>EC-No.: 202-394-1 | 0.01 – 0.1 | Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2, H319<br>Aquatic Chronic 2, H411 |
| 2-methyl-2H-isothiazol-3-one | CAS-No.: 2682-20-4<br>EC-No.: 220-239-6<br>EC Index-No.: 613-326-00-9 | < 0.01 | Acute Tox. 2 (Inhalation), H330<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Oral), H301<br>Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>Aquatic Acute 1, H400 (M=10)<br>Aquatic Chronic 1, H410 (M=1) |
| 1,2-benzisothiazol-3(2H)-one | CAS-No.: 2634-33-5<br>EC-No.: 220-120-9<br>EC Index-No.: 613-088-00-6<br>REACH-no: 01-2120761540-60 | < 0.01 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 2, H411 |
| sodium hydroxide; caustic soda | CAS-No.: 1310-73-2<br>EC-No.: 215-185-5<br>EC Index-No.: 011-002-00-6<br>REACH-no: 01-2119457892-27-XXXX | < 0.01 | Met. Corr. 1, H290<br>Skin Corr. 1A, H314 |

| Specific concentration limits: | | |
|---|---|---|
| **Name** | **Product identifier** | **Specific concentration limits (Conc. (% w/w))** |
| 2-methyl-2H-isothiazol-3-one | CAS-No.: 2682-20-4<br>EC-No.: 220-239-6<br>EC Index-No.: 613-326-00-9 | (0.0015 ≤ C ≤ 100) Skin Sens. 1A, H317 |
| 1,2-benzisothiazol-3(2H)-one | CAS-No.: 2634-33-5<br>EC-No.: 220-120-9<br>EC Index-No.: 613-088-00-6<br>REACH-no: 01-2120761540-60 | (0.05 ≤ C ≤ 100) Skin Sens. 1, H317 |
| sodium hydroxide; caustic soda | CAS-No.: 1310-73-2<br>EC-No.: 215-185-5<br>EC Index-No.: 011-002-00-6<br>REACH-no: 01-2119457892-27-XXXX | (0.5 ≤ C < 2) Eye Irrit. 2, H319<br>(0.5 ≤ C < 2) Skin Irrit. 2, H315<br>(2 ≤ C < 5) Skin Corr. 1B, H314<br>(5 ≤ C < 100) Skin Corr. 1A, H314 |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Call a poison center or a doctor if you feel unwell. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.

First-aid measures after skin contact : Wash skin with plenty of water. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

First-aid measures after eye contact : Rinse eyes with water as a precaution. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects after inhalation : May cause an allergic skin reaction.

Symptoms/effects after ingestion : Swallowing a small quantity of this material will result in serious health hazard.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Use extinguishing media appropriate for surrounding fire. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

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

Hazardous decomposition products in case of fire : Carbon monoxide. Carbon dioxide. Nitrogen oxides. Metal oxides.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

For containment : Stop leak without risks if possible.

Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13. See Section 8. Exposure controls and personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing spray, mist, vapours.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash Both hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

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

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Direct sunlight. Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

| propan-2-ol; isopropyl alcohol; isopropanol (67-63-0) | |
|---|---|
| **United Kingdom - Occupational Exposure Limits** | |
| Local name | Propan-2-ol |
| WEL TWA (OEL TWA) [1] | 999 mg/m³ |
| WEL TWA (OEL TWA) [2] | 400 ppm |
| WEL STEL (OEL STEL) | 1250 mg/m³ |
| WEL STEL (OEL STEL) [ppm] | 500 ppm |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

| monopropylene glycol (MPG) (57-55-6) | |
|---|---|
| **United Kingdom - Occupational Exposure Limits** | |
| Local name | Propane-1,2-diol |
| WEL TWA (OEL TWA) [1] | 10 mg/m³ particulates<br>474 mg/m³ total vapour and particulates |
| WEL TWA (OEL TWA) [2] | 150 ppm total vapour and particulates |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

| disodium molybdate dihydrate (10102-40-6) | |
|---|---|
| **United Kingdom - Occupational Exposure Limits** | |
| Local name | Molybdenum |
| WEL TWA (OEL TWA) [1] | 10 mg/m³ insoluble compounds (as Mo)<br>5 mg/m³ soluble compounds (as Mo) |
| WEL STEL (OEL STEL) | 20 mg/m³ insoluble compounds (as Mo)<br>10 mg/m³ soluble compounds (as Mo) |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

| sodium hydroxide; caustic soda (1310-73-2) | |
|---|---|
| **United Kingdom - Occupational Exposure Limits** | |
| Local name | Sodium hydroxide |
| WEL STEL (OEL STEL) | 2 mg/m³ |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

**Appropriate engineering controls:**
Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

**Personal protective equipment:**
Gloves. Protective goggles. Avoid all unnecessary exposure.

**Personal protective equipment symbol(s):**

#### 8.2.2.1. Eye and face protection

**Eye protection:**
Chemical goggles or safety glasses

#### 8.2.2.2. Skin protection

**Skin and body protection:**
Wear suitable protective clothing

**Hand protection:**
Wear protective gloves.

#### 8.2.2.3. Respiratory protection

**Respiratory protection:**
No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

**Environmental exposure controls:**
Avoid release to the environment.

**Other information:**
Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

| | | |
|---|---|---|
| Physical state | : | Liquid |
| Appearance | : | Clear, colorless liquid. |
| Colour | : | Colourless. |
| Odour | : | characteristic. |
| Odour threshold | : | No data available |
| pH | : | 7.3 – 7.5 |
| pH solution concentration | : | 1 % Concentration of the solution used for the pH measurement |
| Relative evaporation rate (butylacetate=1) | : | No data available |
| Melting point | : | Not applicable |
| Freezing point | : | No data available |
| Boiling point | : | ~ 100 °C |
| Flash point | : | No data available |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| Flammability (solid, gas) | : | Non flammable. |
| Vapour pressure | : | No data available |
| Relative vapour density at 20°C | : | No data available |
| Relative density | : | No data available |
| Density | : | 1.047 g/cm³ |
| Solubility | : | soluble in water. |
| Partition coefficient n-octanol/water (Log Pow) | : | No data available |
| Viscosity, kinematic | : | No data available |
| Viscosity, dynamic | : | No data available |
| Explosive properties | : | No data available |
| Oxidising properties | : | No data available |
| Explosive limits | : | No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions. Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon oxides (CO, CO2). fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

| Corrosion Inhibitor WP 2212 | |
|---|---|
| ATE CLP (oral) | 500 mg/kg bodyweight |

| sodium nitrite (7632-00-0) | |
|---|---|
| LD50 oral rat | 180 mg/kg bodyweight Animal: rat, Animal sex: male |
| LD50 dermal | No data/information is available for acute dermal toxicity. Sodium nitrite is not expected to pass the skin. |
| LC50 Inhalation - Rat (Dust/Mist) | Testing concerning acute inhalation toxicity is not meaningful, since sodium nitrite has an extreme high water solubility and leads to oral uptake. |

| propan-2-ol; isopropyl alcohol; isopropanol (67-63-0) | |
|---|---|
| LD50 oral rat | 5840 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity) |
| LD50 dermal rabbit | 12800 mg/kg |
| LC50, male, female, Inhalation, rat | > 10000 ppm (6 Hours, (OECD 403 method)) |

| sodium benzoate (532-32-1) | |
|---|---|
| LD50 oral rat | 3450 mg/kg bodyweight |

| monopropylene glycol (MPG) (57-55-6) | |
|---|---|
| LD50 oral rat | 22000 mg/kg |
| LD50 dermal rabbit | > 2000 mg/kg |

| disodium molybdate dihydrate (10102-40-6) | |
|---|---|
| LD50 oral rat | 2733 – 6556 mg/kg |
| LD50 dermal rat | > 2000 mg/kg |
| LC50 Inhalation - Rat (Dust/Mist) | > 1.93 mg/l/4h |

| 2-methyl-2H-isothiazol-3-one (2682-20-4) | |
|---|---|
| LD50 oral rat | 183 mg/kg bodyweight |
| LD50 dermal rat | 218 mg/kg bodyweight |
| LC50 Inhalation - Rat (Dust/Mist) | 0.53 mg/l/4h |

| 1,2-benzisothiazol-3(2H)-one (2634-33-5) | |
|---|---|
| LD50 oral rat | 490 mg/kg |
| LD50 dermal rat | > 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |

| sodium hydroxide; caustic soda (1310-73-2) | |
|---|---|
| LD50 oral | > 500 mg/kg Animal: rabbit |

| benzotriazole (95-14-7) | |
|---|---|
| LD50 oral rat | 500 mg/kg bodyweight |
| LD50 dermal rabbit | > 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |

Skin corrosion/irritation : Not classified
pH: 7.3 – 7.5
Additional information : Based on available data, the classification criteria are not met
Serious eye damage/irritation : Not classified
pH: 7.3 – 7.5
Additional information : Based on available data, the classification criteria are not met
Respiratory or skin sensitisation : May cause an allergic skin reaction.
Germ cell mutagenicity : Not classified
Additional information : Based on available data, the classification criteria are not met
Carcinogenicity : Not classified
Additional information : Based on available data, the classification criteria are not met

| sodium nitrite (7632-00-0) | |
|---|---|
| IARC group | 2A - Probably carcinogenic to humans |

| sodium nitrite (7632-00-0) | |
|---|---|
| NOAEL (chronic, oral, animal/male, 2 years) | 130 mg/kg bodyweight Rat |
| NOAEL (chronic, oral, animal/female, 2 years) | 150 mg/kg bodyweight Rat |

Reproductive toxicity : Not classified
Additional information : Based on available data, the classification criteria are not met

| 1,2-benzisothiazol-3(2H)-one (2634-33-5) | |
|---|---|
| NOAEL (animal/female, F1) | 56.6 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EPA OPPTS 870.3800 (Reproduction and Fertility Effects) |

STOT-single exposure : Not classified
Additional information : Based on available data, the classification criteria are not met

| propan-2-ol; isopropyl alcohol; isopropanol (67-63-0) | |
|---|---|
| STOT-single exposure | May cause drowsiness or dizziness. |

STOT-repeated exposure : Not classified
Additional information : Based on available data, the classification criteria are not met

| sodium nitrite (7632-00-0) | |
|---|---|
| NOEL, male, oral, rat | 10 mg/kg bw/day (2 years) |

| 2-methyl-2H-isothiazol-3-one (2682-20-4) | |
|---|---|
| LOAEL (oral, rat, 90 days) | 71.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: other: |

Aspiration hazard : Not classified
Additional information : Based on available data, the classification criteria are not met

| sodium nitrite (7632-00-0) | |
|---|---|
| Viscosity, kinematic | Not applicable |

| propan-2-ol; isopropyl alcohol; isopropanol (67-63-0) | |
|---|---|
| Viscosity, kinematic | 3.115 mm²/s |

| monopropylene glycol (MPG) (57-55-6) | |
|---|---|
| Viscosity, kinematic | 43 mm²/s (20 °C) |

| disodium molybdate dihydrate (10102-40-6) | |
|---|---|
| Viscosity, kinematic | Not applicable |

| sodium hydroxide; caustic soda (1310-73-2) | |
|---|---|
| Viscosity, kinematic | Not applicable |

Potential adverse human health effects and symptoms : Harmful if swallowed.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short–term (acute) : Not classified

Hazardous to the aquatic environment, long–term (chronic) : Not classified

| sodium nitrite (7632-00-0) | |
|---|---|
| LC50 - Fish [1] | 0.54 – 26.3 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | 15.4 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | > 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus) |
| NOEC chronic crustacea | 9.86 mg/l Penaeus monodon (jumbo tiger prawns) |
| EC50, microorganisms | 421 mg/l (48 Hours) |
| NOEC, fish, Chronic | 6.61 mg/l (31 days) |

| propan-2-ol; isopropyl alcohol; isopropanol (67-63-0) | |
|---|---|
| LC50 - Fish [1] | 9640 mg/l Test organisms (species): Fathead minnow (Pimephales promelas) |
| EC50 72h - Algae [1] | > 1000 mg/l Test organisms (species): (Desmodesmus subspicatus) |
| EC50, daphnia, short term | 9714 mg/l (24 Hours, (OECD 202 method)) |
| EC5, microorganisms, Pseudomonas putida | 1050 mg/l (16 Hours) |

| sodium benzoate (532-32-1) | |
|---|---|
| LC50 - Fish [1] | 484 mg/l Fathead minnow (Pimephales promelas) |
| EC50 - Crustacea [1] | > 100 mg/l |

| monopropylene glycol (MPG) (57-55-6) | |
|---|---|
| LC50 - Fish [1] | 40613 mg/l Oncorhynchus mykiss (Rainbow trout) |
| LC50 - Fish [2] | 55770 mg/l Pimephales promelas (Fat-head Minnow) |
| EC50 - Crustacea [1] | > 4000 mg/l 48 hours |
| EC50 96h - Algae [1] | 19000 mg/l Scenedesmus subspicatus |

| disodium molybdate dihydrate (10102-40-6) | |
|---|---|
| LC50 - Fish [1] | 1536 mg/l Fat-head Minnow (Pimephales promelas) |
| EC50 - Crustacea [1] | 330.1 mg/l |
| NOEC chronic fish | 43.2 mg/l Rainbow trout (Oncorhynchus mykiss) |
| NOEC chronic crustacea | 89.5 mg/l |

| 2-methyl-2H-isothiazol-3-one (2682-20-4) | |
|---|---|
| LC50 - Fish [1] | 4.77 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | 1.6 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 0.157 mg/l |
| EC50, microorganisms | 41 mg/l (3 Hours) |

| 1,2-benzisothiazol-3(2H)-one (2634-33-5) | |
|---|---|
| LC50 - Fish [1] | ≈ 16.7 mg/l Test organisms (species): Cyprinodon variegatus |
| LC50 - Fish [2] | 2.15 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) |
| EC50 - Crustacea [1] | 2.94 mg/l Test organisms (species): Daphnia magna |
| EC50 - Crustacea [2] | 2.9 mg/l Test organisms (species): Daphnia magna |
| ErC50 algae | 0.11 mg/l |
| NOEC chronic algae | 0.0403 mg/l |

| sodium hydroxide; caustic soda (1310-73-2) | |
|---|---|
| LC50 - Fish [1] | 125 mg/l Test organisms (species): Western mosquitofish (Gambusia affinis) |
| LC50 - Fish [2] | 45.5 mg/l Test organisms (species): Oncorhynchus mykiss (Rainbow trout) |
| EC50 - Crustacea [1] | 40.4 mg/l Test organisms (species): Ceriodaphnia sp. |
| EC50, microorganisms, (Photobacterium phosphoreum) | 22 mg/l (15 minutes) |

| benzotriazole (95-14-7) | |
|---|---|
| LC50 - Fish [1] | 55 mg/l Test organisms (species): Cyprinodon variegatus |
| LC50 - Fish [2] | 180 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio) |
| EC50 - Crustacea [1] | 137 mg/l Test organisms (species): Daphnia magna |
| EC50 72h - Algae [1] | 75 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| EC50 72h - Algae [2] | 29 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) |
| NOEC chronic fish | 1.07 mg/l |
| NOEC chronic crustacea | 0.97 mg/l |
| NOEC chronic algae | 1.18 mg/l |

## 12.2. Persistence and degradability

| Corrosion Inhibitor WP 2212 | |
|---|---|
| Persistence and degradability | Not established. |

| sodium nitrite (7632-00-0) | |
|---|---|
| Persistence and degradability | Not established. |

| propan-2-ol; isopropyl alcohol; isopropanol (67-63-0) | |
|---|---|
| Persistence and degradability | Readily biodegradable. |
| Biochemical oxygen demand (BOD) | 1.19 – 1.72 g $O_2$/g substance |
| Chemical oxygen demand (COD) | 2.23 g $O_2$/g substance |

| sodium benzoate (532-32-1) | |
|---|---|
| Persistence and degradability | Not established. |

| monopropylene glycol (MPG) (57-55-6) | |
|---|---|
| Persistence and degradability | Biodegradable. |
| Chemical oxygen demand (COD) | 1.53 g $O_2$/g substance |
| ThOD | 1.68 g $O_2$/g substance |

| disodium molybdate dihydrate (10102-40-6) | |
|---|---|
| Persistence and degradability | soluble in water. |

| 1,2-benzisothiazol-3(2H)-one (2634-33-5) | |
|---|---|
| Persistence and degradability | Biodegradable. |

| sodium hydroxide; caustic soda (1310-73-2) | |
|---|---|
| Persistence and degradability | Not established. |

## 12.3. Bioaccumulative potential

| Corrosion Inhibitor WP 2212 | |
|---|---|
| Bioaccumulative potential | Not established. |

| sodium nitrite (7632-00-0) | |
|---|---|
| Bioaccumulative potential | Not established. |

| propan-2-ol; isopropyl alcohol; isopropanol (67-63-0) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 0.05 |
| Bioaccumulative potential | No bioaccumulation. |

| sodium benzoate (532-32-1) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | -2.27 |
| Bioaccumulative potential | Not established. |

| monopropylene glycol (MPG) (57-55-6) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | -1.07 |
| Bioaccumulative potential | No bioaccumulation. |

| disodium molybdate dihydrate (10102-40-6) | |
|---|---|
| Bioaccumulative potential | Not established. |

| 1,2-benzisothiazol-3(2H)-one (2634-33-5) | |
|---|---|
| Partition coefficient n-octanol/water (Log Pow) | 1.3 |
| Bioaccumulative potential | Low. |

| sodium hydroxide; caustic soda (1310-73-2) | |
|---|---|
| Bioaccumulative potential | No bioaccumulation. |

## 12.4. Mobility in soil

| propan-2-ol; isopropyl alcohol; isopropanol (67-63-0) | |
|---|---|
| Surface tension | 22.7 mN/m |
| Ecology - soil | Very mobile. Soluble material/quickly disperses in water. |

| disodium molybdate dihydrate (10102-40-6) | |
|---|---|
| Ecology - soil | Soluble material/quickly disperses in water. |

| sodium hydroxide; caustic soda (1310-73-2) | |
|---|---|
| Ecology - soil | Mobile. Soluble material/quickly disperses in water. |

### 12.5. Results of PBT and vPvB assessment

| Component | |
|---|---|
| sodium nitrite (7632-00-0) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| propan-2-ol; isopropyl alcohol; isopropanol (67-63-0) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| sodium benzoate (532-32-1) | PBT: not relevant – no registration required |
| monopropylene glycol (MPG) (57-55-6) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| disodium molybdate dihydrate (10102-40-6) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |
| 1,2-benzisothiazol-3(2H)-one (2634-33-5) | PBT: not relevant – no registration required |
| sodium hydroxide; caustic soda (1310-73-2) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII<br>This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII |

### 12.6. Other adverse effects

Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|---|---|---|---|---|
| **14.1. UN number** | | | | |
| Not regulated for transport | | | | |
| **14.2. UN proper shipping name** | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| **14.3. Transport hazard class(es)** | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| **14.4. Packing group** | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| **14.5. Environmental hazards** | | | | |
| Not regulated | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available | | | | |

### 14.6. Special precautions for user

**Overland transport**

Not regulated

### Transport by sea
Not regulated

### Air transport
Not regulated

### Inland waterway transport
Not regulated

### Rail transport
Not regulated

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

Not applicable

# SECTION 15: Regulatory information

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

### 15.1.1. EU-Regulations

**REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

**REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

**REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

**PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

**POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

**Ozone Regulation (1005/2009)**

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

**Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

**Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. National regulations

No additional information available

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

# SECTION 16: Other information

| Abbreviations and acronyms: | |
|---|---|
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |

| Abbreviations and acronyms: | |
|---|---|
| EC50 | Median effective concentration |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| PBT | Persistent Bioaccumulative Toxic |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| SDS | Safety Data Sheet |
| vPvB | Very Persistent and Very Bioaccumulative |

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

| Full text of H- and EUH-statements: | |
|---|---|
| Acute Tox. 2 (Inhalation) | Acute toxicity (inhal.), Category 2 |
| Acute Tox. 3 (Dermal) | Acute toxicity (dermal), Category 3 |
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| H225 | Highly flammable liquid and vapour. |
| H272 | May intensify fire; oxidiser. |
| H290 | May be corrosive to metals. |
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H311 | Toxic in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |

| Full text of H- and EUH-statements: | |
|---|---|
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| Met. Corr. 1 | Corrosive to metals, Category 1 |
| Ox. Sol. 3 | Oxidising Solids, Category 3 |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1, Sub-Category 1A |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| Skin Sens. 1 | Skin sensitisation, Category 1 |
| Skin Sens. 1A | Skin sensitisation, category 1A |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Narcosis |

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.