# SAFETY DATA SHEET

**Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758**

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

### 1.1 Product identifier

| | | |
|---|---|---|
| **Product identifier** | : | 7103 |
| **Product name** | : | Permahyd® Stone Chip Protector WHITE |
| **Product type** | : | Liquid. |
| **Other means of identification** | : | 4025331222668 |
| **Date of issue/ Date of revision** | : | 1 March 2025 |
| **Version** | : | 1.13 |
| **Date of previous issue** | : | 6 January 2025 |

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

| | | |
|---|---|---|
| **Identified uses** | : | Coating component. |
| **Uses advised against** | : | Not for sale to or use by consumers. |

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

Axalta Coating Systems Germany GmbH & Co. KG
Christbusch 25
DE 42285 Wuppertal
+49 (0)202 529-0

| | | |
|---|---|---|
| **e-mail address of person responsible for this SDS** | : | sds-competence@axalta.com |

### 1.4 Emergency telephone number

**Supplier**

| | | |
|---|---|---|
| **Telephone number** | : | +(44)-870-8200418 |

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

**Classification according to UK CLP/GHS**

Aquatic Chronic 2, H411

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

### 2.2 Label elements

**Hazard pictograms** :



## SECTION 2: Hazards identification

**Signal word** : No signal word.

**Hazard statements** : H411 - Toxic to aquatic life with long lasting effects.

**Precautionary statements**

**Prevention** : P273 - Avoid release to the environment.

**Response** : P391 - Collect spillage.

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Supplemental label elements** : EUH208 - Contains 1,2-benzisothiazol-3(2H)-one and reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1). May produce an allergic reaction.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : None known.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

| Product/ingredient name | Identifiers | % | Classification | Type |
|---|---|---|---|---|
| trizinc bis(orthophosphate) | REACH #: 01-2119485044-40<br>EC: 231-944-3<br>CAS: 7779-90-0<br>Index: 030-011-00-6 | ≥10 - ≤24 | Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1) | [1] |
| 2-butoxyethanol | REACH #: 01-2119475108-36<br>EC: 203-905-0<br>CAS: 111-76-2<br>Index: 603-014-00-0 | ≤5 | Acute Tox. 4, H302<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319 | [1] [2] |
| zinc oxide | REACH #: 01-2119463881-32<br>EC: 215-222-5<br>CAS: 1314-13-2<br>Index: 030-013-00-7 | ≤0.3 | Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1) | [1] |
| ammonia | REACH #: 01-2119488876-14<br>EC: 215-647-6<br>CAS: 1336-21-6<br>Index: 007-001-01-2 | ≤0.2 | Skin Corr. 1B, H314<br>Eye Dam. 1, H318<br>STOT SE 3, H335<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 3, H412 | [1] [2] |
| 1,2-benzisothiazol-3(2H)-one | REACH #: 01-2120761540-60<br>EC: 220-120-9<br>CAS: 2634-33-5<br>Index: 613-088-00-6 | <0.036 | Acute Tox. 4, H302<br>Acute Tox. 2, H330<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, | [1] |

## SECTION 3: Composition/information on ingredients

| | | | | |
|---|---|---|---|---|
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1) | REACH #: 01-2120764691-48<br>EC: 911-418-6<br>CAS: 55965-84-9<br>Index: 613-167-00-5 | <0.001 | H410 (M=1)<br>Acute Tox. 3, H301<br>Acute Tox. 2, H310<br>Acute Tox. 2, H330<br>Skin Corr. 1C, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1A, H317<br>Aquatic Acute 1, H400 (M=100)<br>Aquatic Chronic 1, H410 (M=100)<br>EUH071<br>**See Section 16 for the full text of the H statements declared above.** | [1] |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a physical, health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in Section 8.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

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

**Over-exposure signs/symptoms**

**Eye contact** : No specific data.

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

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

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

# SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** : Recommended: alcohol-resistant foam, $CO_2$, powders, water spray.

**Unsuitable extinguishing media** : Do not use water jet.

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

**Hazards from the substance or mixture** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

**Hazardous combustion products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

### 5.3 Advice for firefighters

**Special protective actions for fire-fighters** : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.

**Special protective equipment for fire-fighters** : Appropriate breathing apparatus may be required.

# SECTION 6: Accidental release measures

Due to the organic solvents content of the mixture:

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

**For non-emergency personnel** : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.

**For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**6.2 Environmental precautions** : Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

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

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Preferably clean with a detergent. Avoid using solvents.

**6.4 Reference to other sections** : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

# SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 7.1 Precautions for safe handling

Due to the organic solvents content of the mixture:

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.
In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.
Keep away from heat, sparks and flame. No sparking tools should be used.
Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.
Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.
Put on appropriate personal protective equipment (see Section 8).

# SECTION 7: Handling and storage

Never use pressure to empty. Container is not a pressure vessel.
Always keep in containers made from the same material as the original one.
Comply with the health and safety at work laws.

**Information on fire and explosion protection**

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

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

Store in accordance with local regulations.

**Notes on joint storage**

Keep away from: oxidising agents, strong alkalis, strong acids.

**Additional information on storage conditions**

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep container tightly closed.
Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

**Seveso Directive - Reporting thresholds**

**Danger criteria**

| Category | Notification and MAPP threshold | Safety report threshold |
|---|---|---|
| E2 | 200 tonne | 500 tonne |

### 7.3 Specific end use(s)

**Recommendations** : Not available.

**Industrial sector specific solutions** : Not available.

# SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational exposure limits**

2-butoxyethanol — **EH40/2005 WELs (United Kingdom (UK), 1/2020)** Absorbed through skin.
STEL 15 minutes: 50 ppm.
TWA 8 hours: 25 ppm.
STEL 15 minutes: 246 mg/m³.
TWA 8 hours: 123 mg/m³.

ammonia — **EH40/2005 WELs (United Kingdom (UK), 1/2020) [ammonia]**
STEL 15 minutes: 25 mg/m³. Form: anhydrous.
STEL 15 minutes: 35 ppm. Form: anhydrous.
TWA 8 hours: 25 ppm. Form: anhydrous.
TWA 8 hours: 18 mg/m³. Form: anhydrous.

**Biological exposure indices**

| Product/ingredient name | Exposure indices |
|---|---|
| 2-butoxyethanol | **EH40/2005 BMGVs (United Kingdom (UK), 1/2020)** BGV: 240 mmol/mol creatinine, butoxyacetic acid [in urine]. Sampling time: post shift. |

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: British Standard BS EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) British Standard BS EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) British Standard BS EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**DNELs/DMELs**

## SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|---|---|---|---|---|---|
| 2-butoxyethanol | DNEL | Long term Inhalation | 20 ppm | Workers | Systemic |
| | DNEL | Long term Oral | 6.3 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Oral | 26.7 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Inhalation | 59 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 98 mg/m³ | Workers | Systemic |
| | DNEL | Short term Inhalation | 147 mg/m³ | General population | Local |
| | DNEL | Short term Inhalation | 246 mg/m³ | Workers | Local |
| | DNEL | Short term Inhalation | 426 mg/m³ | General population | Systemic |
| | DNEL | Short term Inhalation | 1091 mg/m³ | Workers | Systemic |
| ammonia | DNEL | Long term Inhalation | 67.36 ppm | Workers | Systemic |
| | DNEL | Long term Dermal | 6.8 mg/kg bw/day | Workers | Systemic |
| 1,2-benzisothiazol-3(2H)-one | DNEL | Long term Inhalation | 6.81 mg/m³ | Workers | Systemic |
| | DNEL | Long term Dermal | 0.966 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Dermal | 0.345 mg/kg bw/day | General population | Systemic |
| | DNEL | Long term Dermal | 0.966 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 1.2 mg/m³ | General population | Systemic |
| | DNEL | Long term Inhalation | 6.81 mg/m³ | Workers | Systemic |
| reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1) | DNEL | Long term Inhalation | 0.02 mg/m³ | General population | Local |
| | DNEL | Long term Inhalation | 0.02 mg/m³ | Workers | Local |
| | DNEL | Short term Inhalation | 0.04 mg/m³ | General population | Local |
| | DNEL | Short term Inhalation | 0.04 mg/m³ | Workers | Local |
| | DNEL | Long term Oral | 0.09 mg/kg bw/day | General population | Systemic |
| | DNEL | Short term Oral | 0.11 mg/kg bw/day | General population | Systemic |

**PNECs**

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|---|---|---|---|
| 2-butoxyethanol | Sewage Treatment Plant | 463 mg/l | - |
| | Soil | 2.33 mg/kg | - |
| | Marine water sediment | 3.46 mg/kg | - |
| | Marine water | 0.88 mg/l | - |
| | Fresh water | 8.8 mg/l | - |
| | Fresh water sediment | 34.6 mg/kg | - |
| zinc oxide | Fresh water | 20.6 µg/l | Sensitivity Distribution |
| | Marine water | 0.1 µg/l | Sensitivity Distribution |
| | Sewage Treatment Plant | 100 µg/l | Assessment Factors |
| | Fresh water sediment | 117.8 mg/kg | Sensitivity Distribution |

# SECTION 8: Exposure controls/personal protection

| | | | |
|---|---|---|---|
| | Marine water sediment | 56.5 mg/kg | Equilibrium Partitioning |
| | Soil | 36.5 mg/kg | Sensitivity Distribution |
| 1,2-benzisothiazol-3(2H)-one | Fresh water | 4.03 µg/l | - |
| | Marine water | 0.403 µg/l | - |
| | Sewage Treatment Plant | 1.03 mg/l | - |
| | Fresh water sediment | 49.9 µg/kg dwt | - |
| | Marine water sediment | 4.99 µg/kg dwt | - |
| | Soil | 3 mg/kg | - |
| reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1) | Fresh water | 0.00339 mg/l | - |
| | Marine water | 0.00339 mg/l | - |
| | Soil | 0.01 mg/kg dwt | - |
| | Sewage Treatment Plant | 0.23 mg/l | - |
| | Fresh water sediment | 0.027 mg/kg dwt | - |
| | Marine water sediment | 0.027 mg/kg dwt | - |

### 8.2 Exposure controls

**Appropriate engineering controls** : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

**Individual protection measures**

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Use safety eyewear designed to protect against splash of liquids.

**Skin protection**

**Hand protection**

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.
The breakthrough time must be greater than the end use time of the product.
The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.
Gloves should be replaced regularly and if there is any sign of damage to the glove material.
Always ensure that gloves are free from defects and that they are stored and used correctly.
The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.
Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

**Gloves** : Duration / breakthrough time: <1 hour,
Glove material: NBR, nitrile rubber, material thickness as splash protection: at least 0.2 mm, (EN374)
Glove material: NBR, nitrile rubber Material thickness for short-term contact: at least 0.5 mm, (EN374)

The recommendation for the type or types of glove to use when handling this product is based on information from the following source:

Expert judgment

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

**Body protection** : Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

## SECTION 8: Exposure controls/personal protection

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators.

Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flatting should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

**Environmental exposure controls** : Do not allow to enter drains or watercourses.

## SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

### 9.1 Information on basic physical and chemical properties

**Appearance**

| | | |
|---|---|---|
| **Physical state** | : | Liquid. |
| **Colour** | : | White. |
| **Odour** | : | Not available. |
| **Odour threshold** | : | Not available. |
| **Melting point/freezing point** | : | Technically not possible to measure |
| **Initial boiling point and boiling range** | : | 100 to 3000°C (212 to 5432°F) |
| **Flammability (solid, gas)** | : | Not available. |
| **Upper/lower flammability or explosive limits** | : | Not available. |
| **Lower and upper explosive (flammable) limits** | : | Not available. |
| **Flash point** | : | Closed cup: 101°C (213.8°F) [Product does not sustain combustion.] |
| **Auto-ignition temperature** | : | 230°C (446°F) |
| **Decomposition temperature** | : | Not applicable. |
| **pH** | : | 7.5 to 8.5 |
| **Viscosity** | : | Dynamic (room temperature): 921 mPa·s<br>Kinematic (room temperature): 684 $mm^2/s$<br>Kinematic (40°C): Not available. |
| **Solubility in water** | : | Not available. |
| **Miscible with water** | : | Yes. |
| **Partition coefficient: n-octanol/ water** | : | Not applicable. |
| **Vapour pressure** | : | 0.73 kPa (5.5 mm Hg) |
| **Relative density** | : | Not available. |
| **Density** | : | 1.347 $g/cm^3$ |
| **Vapour density** | : | Not available. |
| **Explosive properties** | : | Not available. |
| **Oxidising properties** | : | Not available. |
| **Weight volatiles** | : | 35.1 % (w/w) |
| **VOC content** | : | 4.9 % (w/w) (2010/75/EU) |

### 9.2 Other information

#### 9.2.1 Information with regard to physical hazard classes

## SECTION 9: Physical and chemical properties

Further information Not available.

**9.2.2 Other safety characteristics**

**Miscible with water** : Yes.

Further information Not available.

***room temperature (=20°C)***

## SECTION 10: Stability and reactivity

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : Stable under recommended storage and handling conditions (see Section 7).

**10.3 Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : When exposed to high temperatures may produce hazardous decomposition products.

**10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.

**10.6 Hazardous decomposition products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

## SECTION 11: Toxicological information

**11.1 Information on toxicological effects**

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.
Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.
If splashed in the eyes, the liquid may cause irritation and reversible damage.
This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Contains 1,2-benzisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

**Acute toxicity**

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| 2-butoxyethanol | LD50 Dermal | Rat | 2010 mg/kg | - |
| | LD50 Oral | Rat | 917 mg/kg | - |
| 1,2-benzisothiazol-3(2H)-one | LC50 Inhalation Dusts and mists | Rat | 0.21 mg/l | 4 hours |
| | LD50 Oral | Rat | 1020 mg/kg | - |
| reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol- | LD50 Oral | Rat | 53 mg/kg | - |

## SECTION 11: Toxicological information

| | | | | |
|---|---|---|---|---|
| 3-one [EC no. 220-239-6] (3:1) | | | | |

**Acute toxicity estimates**

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---|---|---|---|---|---|
| mixture | 24742.3 | N/A | N/A | 226.8 | N/A |
| 2-butoxyethanol | 1200 | 2010 | N/A | 11 | N/A |
| 1,2-benzisothiazol-3(2H)-one | 450 | N/A | N/A | N/A | 0.21 |
| reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1) | 53 | 50 | N/A | 0.5 | N/A |

**Irritation/Corrosion**

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|---|---|---|---|---|
| | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 mg | - |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |
| - | Skin - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| - | Eyes - Severe irritant | Mammal - species unspecified | - | - | - |
| | Skin - Mild irritant | Human | - | 48 hours 5 % | - |
| - | Skin - Severe irritant | Human | - | 0.01 % | - |

**Respiratory or skin sensitization**

| Product/ingredient name | Route of exposure | Species | Result |
|---|---|---|---|
| - | skin | Guinea pig | Sensitising |

**Mutagenicity**

**Carcinogenicity**

**Reproductive toxicity**

**Teratogenicity**

**Specific target organ toxicity (single exposure)**

| Product/ingredient name | Category | Route of exposure | Target organs |
|---|---|---|---|
| ammonia | Category 3 | - | Respiratory tract irritation |

**Specific target organ toxicity (repeated exposure)**

Not available.

**Aspiration hazard**

Not available.

**Information on likely routes of exposure** : Not available.

**Potential acute health effects**

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

**Symptoms related to the physical, chemical and toxicological characteristics**

# SECTION 11: Toxicological information

**Eye contact** : No specific data.

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

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

**Short term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Long term exposure**

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

**Potential chronic health effects**

Not available.

**Conclusion/Summary** : Not available.

**General** : No known significant effects or critical hazards.

**Carcinogenicity** : No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : No known significant effects or critical hazards.

**Other information** : Not available.

# SECTION 12: Ecological information

**12.1 Toxicity**

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| - | Acute EC50 >1000 mg/l Fresh water | Daphnia - Water flea - *Daphnia magna* | 48 hours |
| | Acute LC50 800000 µg/l Marine water | Crustaceans - Common shrimp, sand shrimp - *Crangon crangon* | 48 hours |
| | Acute LC50 1250 ppm Marine water | Fish - Inland silverside - *Menidia beryllina* | 96 hours |
| - | Acute IC50 46 µg/l Fresh water | Algae - Green algae - *Raphidocelis subcapitata* - Exponential growth phase | 72 hours |
| | Acute IC50 1.85 mg/l Marine water | Algae - Diatom - *Skeletonema costatum* | 96 hours |
| | Acute LC50 98 µg/l Fresh water | Daphnia - Water flea - *Daphnia magna* - Neonate | 48 hours |
| | Acute LC50 1.1 ppm Fresh water | Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss* | 96 hours |
| - | Acute LC50 37 ppm Fresh water | Fish - Western mosquitofish - *Gambusia affinis* - Adult | 96 hours |
| - | Acute EC50 0.11 mg/l | Algae | 72 hours |
| | Acute EC50 97 ppb Fresh water | Daphnia - Water flea - *Daphnia magna* | 48 hours |
| | Acute LC50 10 to 20 mg/l Fresh water | Crustaceans - Water flea - *Ceriodaphnia dubia* | 48 hours |
| | Acute LC50 167 ppb Fresh water | Fish - Rainbow trout,donaldson trout - *Oncorhynchus mykiss* | 96 hours |
| | Chronic NOEC 0.0403 mg/l | Algae | 72 hours |

**Conclusion/Summary** : Not available.

# SECTION 12: Ecological information

### 12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|---|---|---|---|---|
| - | - | 70 % - Readily - 28 days | - | - |

**Conclusion/Summary** : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|---|---|---|
| 1,2-benzisothiazol-3(2H)-one | - | - | Readily |

### 12.3 Bioaccumulative potential

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| trizinc bis(orthophosphate) | - | 60960 | High |
| 2-butoxyethanol | 0.81 | - | Low |
| zinc oxide | - | 28960 | High |
| reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) | 0.4 | - | Low |

### 12.4 Mobility in soil

**Soil/water partition coefficient ($K_{OC}$)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

# SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

### 13.1 Waste treatment methods

**Product**

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

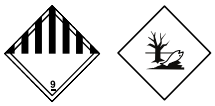
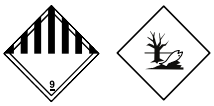
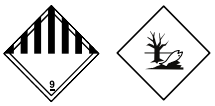
**Packaging**

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

| Type of packaging | Waste catalogue | |
|---|---|---|
| | 15 01 10* | packaging containing residues of or contaminated by hazardous substances |

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

| | ADR/RID | ADN | IMDG | IATA |
|---|---|---|---|---|
| **14.1 UN number** | UN3082 | UN3082 | UN3082 | UN3082 |
| **14.2 UN proper shipping name** | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (trizinc bis (orthophosphate)) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (trizinc bis (orthophosphate)) | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (trizinc bis (orthophosphate)) | Environmentally hazardous substance, liquid, n.o.s. (trizinc bis (orthophosphate)) |
| **14.3 Transport hazard class(es)** | 9  | 9  | 9  | 9  |
| **14.4 Packing group** | III | III | III | III |
| **14.5 Environmental hazards** | Yes. | Yes. | Yes. | Yes. |

**Additional information**

**ADR/RID** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
**Hazard identification number** 90
**Limited quantity** 5 L
**Special provisions** 274, 335, 601, 375
**Tunnel code** (-)

**ADN** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
**Special provisions** 274, 335, 375, 601

**IMDG** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.
**Emergency schedules** F-A, S-F
**Special provisions** 274, 335, 969

**IATA** : This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.
**Quantity limitation** Passenger and Cargo Aircraft: 450 L. Packaging instructions: 964. Cargo Aircraft Only: 450 L. Packaging instructions: 964. Limited Quantities - Passenger Aircraft: 30 kg. Packaging instructions: Y964.
**Special provisions** A97, A158, A197, A215

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to IMO instruments** : Not available.

# SECTION 15: Regulatory information

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

**UK (GB)/REACH**

**Annex XIV - List of substances subject to authorisation**

**Annex XIV**

None of the components are listed.

**Substances of very high concern**

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** Not applicable.

**Seveso Directive**

This product is controlled under the Seveso Directive.

**Danger criteria**

| Category |
|---|
| E2 |

**National regulations**

| Product/ingredient name | List name | Name on list | Classification | Notes |
|---|---|---|---|---|
| | | | | |

**International regulations**

**Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

**Montreal Protocol**

Not listed.

**Stockholm Convention on Persistent Organic Pollutants**

Not listed.

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments are still required.

# SECTION 16: Other information

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate
GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019 No. 720 and amendments
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = GB CLP-specific Hazard statement
N/A = Not available
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
SGG = Segregation Group
vPvB = Very Persistent and Very Bioaccumulative

**Procedure used to derive the classification**

| Classification | Justification |
|---|---|
| Aquatic Chronic 2, H411 | Calculation method |

## SECTION 16: Other information

**Full text of abbreviated H statements**

| | |
|---|---|
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H310 | Fatal 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. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH071 | Corrosive to the respiratory tract. |

**Full text of classifications**

| | |
|---|---|
| Acute Tox. 2 | ACUTE TOXICITY - Category 2 |
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Acute Tox. 4 | ACUTE TOXICITY - Category 4 |
| Aquatic Acute 1 | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 1 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Eye Irrit. 2 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 |
| Skin Corr. 1B | SKIN CORROSION/IRRITATION - Category 1B |
| Skin Corr. 1C | SKIN CORROSION/IRRITATION - Category 1C |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1A | SKIN SENSITISATION - Category 1A |
| STOT SE 3 | SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3 |

**Date of issue/ Date of revision** : 3/1/2025

**Version** : 1.13

**Date of previous issue** : 1/6/2025

**Notice to reader**

**This product is intended for industrial use only.**

**Safety Data Sheet (SDS) content is believed to be accurate as of its issue date, but is subject to change as new information is received by Axalta Coatings Systems, LLC or any of its subsidiaries or affiliates (Axalta). This SDS may incorporate information that has been provided to Axalta by its suppliers. Users should ensure that they are referring to the most current version of the SDS. Users are responsible for following the precautions identified in this SDS. It is the users' responsibility to comply with all laws and regulations applicable to the safe handling, use, and disposal of the product.**

**Users of Axalta products should read all relevant product information prior to use, and make their own determination as to the suitability of the products for their intended use. Except as otherwise required by applicable law, AXALTA MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The information on this SDS relates only to the specific product identified in Section 1, Identification, and does not relate to its possible use in combination with any other material or in any specific process. If this product is to be used in combination with other products, Axalta encourages you to read and understand the SDS for all products prior to use.**

**© 2022 Axalta Coating Systems, LLC and all affiliates. All rights reserved. Copies may be made only for those using Axalta Coating Systems products.**

## SECTION 16: Other information