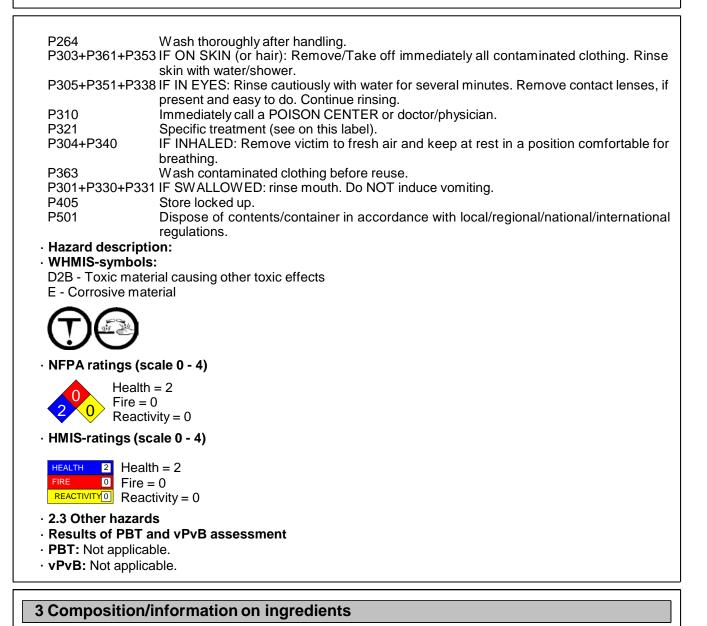
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| 1 Identification of the substance/mixture and of the company/undertaking | | | | | |
|---|--|--|--|--|--|
| · 1.1 Product identifier | | | | | |
| Trade name: Oxishield Corrosion Inhibitor Application of the substance / the preparation Water treatment | | | | | |
| 1.3 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: Plastic Process Equipment, Inc. 8303 Corporate Park Drive Macedonia, OH 44056 | | | | | |
| Further information obtainable from: Product Safety Department 1.4 Emergency telephone number: 800-535-5053 | | | | | |
| Hazards identification | | | | | |
| 2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 | | | | | |
| GHS05 corrosion | | | | | |
| Skin Corr. 1C H314 Causes severe skin burns and eye damage. | | | | | |
| Classification according to Directive 67/548/EEC or Directive 1999/45/EC C; Corrosive R34: Causes burns. | | | | | |
| • Information concerning particular hazards for human and environment: The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. | | | | | |
| Classification system: The classification is according to the latest editions of the EU-lists, and extended by company and literature data. | | | | | |
| • 2.2 Label elements • Labeling according to Regulation (EC) No 1272/2008 The product is classified and labeled according to the CLP regulation. • Hazard pictograms | | | | | |
| GHS05 | | | | | |
| Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. | | | | | |
| Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. | | | | | |

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· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

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| | nents: | |
|--|--|--------|
| CAS: 7601-54-9 EINECS: 231-509-8 | trisodium orthophosphate substance with a Community workplace exposure limit | < 2.2% |
| CAS: 7631-99-4 EINECS: 231-554-3 | sodium nitrate, containing in the dry statemore than 16,3 per cent by weight of nitrogen Xn R22; Xi R36; O R8 O X. Sol. 2, H272 Eye Irrit. 2, H319 | <1.0% |
| · Additional informa | tion: For the wording of the listed risk phrases refer to section 16. | |
| First aid measu | res | |
| persist. In case of unconscio • After skin contact: Immediately wash w If skin irritation conti • After eye contact: Remove contact lens Rinse opened eye fo • After swallowing: Do not induce vomit Rinse out mouth and | or several minutes under running water. Then consult a doctor. Ing; call for medical help immediately. If then drink plenty of water. Symptoms and effects, both acute and delayed nia | rmptom |

- · 5.1 Extinguishing media
- · Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.

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· 5.3 Advice for firefighters

• Protective equipment:

Wear self-contained respiratory protective device. Wear fully protective suit.

6 Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.
 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Clean the affected area carefully; suitable cleaners are: Warm water and cleansing agent

Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. • 6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

7 Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

• Information about fire - and explosion protection: No special measures required.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Store away from foodstuffs.
- Do not store together with acids.
- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- 7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.

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| · 8.1 Control parameters | | | | |
|---|--|--|--|--|
| Ingredients with limit values that require monitoring at the workplace: | | | | |
| | 7601-54-9 trisodium orthophosphate | | | |
| | WEEL (USA) Short-term value: 5 mg/m ³ | | | |
| | Additional information: The lists valid during the making were used as basis. | | | |
| | 8.2 Exposure controls | | | |
| | Personal protective equipment: General protective and hygienic measures: | | | |
| | Keep away from foodstuffs, beverages and feed. | | | |
| | Immediately remove all soiled and contaminated clothing | | | |
| | Wash hands before breaks and at the end of work. | | | |
| | Avoid contact with the eyes and skin. Respiratory protection: | | | |
| | Not necessary if room is well-ventilated. | | | |
| | Use suitable respiratory protective device in case of insufficient ventilation. | | | |
| • | Protection of hands: | | | |
| | Protective gloves | | | |
| | The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ th preparation/ the chemical mixture. | | | |
| | Selection of the glove material on consideration of the penetration times, rates of diffusion and th degradation Material of gloves | | | |
| | Rubber gloves | | | |
| : | The selection of the suitable gloves does not only depend on the material, but also on further marks quality and varies from manufacturer to manufacturer. As the product is a preparation of seve substances, the resistance of the glove material can not be calculated in advance and has therefore to checked prior to the application. | | | |
| | Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has be observed. | | | |
| · | Eye protection: | | | |
| | Safety glasses | | | |
| | Goggles recommended during refilling | | | |
| | Body protection: Protective work clothing | | | |

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| 9.1 Information on basic physical ar | nd chemical properties | | |
|--|---|--|--|
| General Information | • • | | |
| Appearance: | | | |
| Form: | Liquid | | |
| Color: | Light yellow | | |
| Odor: | Mild | | |
| Odor threshold: | Not determined. | | |
| pH-value at 20°C: | 11 - 12 | | |
| Change in condition | | | |
| Melting point/Melting range: | Undetermined. | | |
| Boiling point/Boiling range: | Undetermined. | | |
| Flash point: | Not applicable. | | |
| Flammability (solid, gaseous): | Not applicable. | | |
| Ignition temperature: | Not established | | |
| Decomposition temperature: | Not determined. | | |
| Self-igniting: | Product is not self igniting. | | |
| Danger of explosion: | Product does not present an explosion hazard. | | |
| Explosion limits: | | | |
| Lower: | Not determined. | | |
| Upper: | Not determined. | | |
| Vapour pressure at 20°C: | 23 hPa | | |
| Density at 20°C: | 1,03 g/cm ³ | | |
| Relative density | Not determined. | | |
| Vapour density | Not determined. | | |
| Evaporation rate | Not determined. | | |
| Solubility in / Miscibility with | | | |
| water: | Fully miscible. | | |
| Segregation coefficient (n-octanol/water): Not determined. | | | |
| Viscosity: | | | |
| Dynamic: | Not determined. | | |
| Kinematic: | Not determined. | | |
| Solvent content: | | | |
| Organic solvents: | <10 % | | |
| 9.2 Other information | No further relevant information available. | | |

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10 Stability and reactivity

- · 10.1 Reactivity
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Contact with acids releases toxic gases. Contact with acids releases irritant gases. Reacts with alkali (yes).
- 10.4 Conditions to avoid No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- 10.6 Hazardous decomposition products: Possible in traces.

11 Toxicological information

- 11.1 Information on toxicological effects
- Acute toxicity:
- · Primary irritant effect:
- on the skin:
- Caustic effect on skin and mucous membranes. Irritant to skin and mucous membranes.
- on the eye:
- Strong caustic effect.

Strong irritant with the danger of severe eye injury.

- Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12 Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability
- Moderately/partly biodegradable
- Moderately/partly removable from water
- 12.3 Bioaccumulative potential Not worth-mentioning accumulating in organisms
- **12.4 Mobility in soil** No further relevant information available.

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Additional ecological information:

· General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or neutralized.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

• 12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

- · Unclean packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

| 14.1 UN-Number | | |
|---------------------------------|-----|--|
| DOT, ADR, ADN, IMDG, IATA | N/A | |
| 14.2 UN proper shipping name | | |
| DOT, ADR, ADN, IMDG, IATA | N/A | |
| 14.3 Transport hazard class(es) | NA | |
| DOT, IATA | NA | |
| Class | N/A | |
| ADR, ADN, IMDG | | |
| Class | N/A | |
| 14.4 Packing group | NA | |
| DOT, ADR, IMDG, IATA | N/A | |
| 14.5 Environmental hazards: | | |
| Marine pollutant: | No | |

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Trade name: Oxishield Corrosion Inhibitor · 14.6 Special precautions for user Not applicable. • 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · UN "Model Regulation": **15 Regulatory information** · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture United States (USA) · SARA · Section 355 (extremely hazardous substances): None of the ingredients is listed. Section 313 (Specific toxic chemical listings): None of the ingredients is listed. · TSCA (Toxic Substances Control Act): All ingredients are listed. · Proposition 65 (California): · Chemicals known to cause cancer: None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. · Chemicals known to cause developmental toxicity: None of the ingredients is listed. · Carcinogenic Categories • EPA (Environmental Protection Agency) None of the ingredients is listed. • TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed. NIOSH-Ca (National Institute for Occupational Safety and Health) None of the ingredients is listed. · OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed. · Canada

· Canadian Domestic Substances List (DSL)

All ingredients are listed.

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· Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 1%)

7631-95-0 Sodium molybdate

7631-99-4 sodium nitrate, containing in the dry state more than 16,3 per cent by weight of nitrogen

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H272 May intensify fire; oxidizer. H319 Causes serious eye irritation.

R22 Harmful if swallowed.

R36 Irritating to eyes.

R8 Contact with combustible material may cause fire.

· Abbreviations and acronyms:

ADR: Accord European sur le transport des merchandises dangerousness par Route (European Agreement concerning the

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada)