

Safety Data Sheet



Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product identifier

| | |
|----------------------------------|---|
| Product Name | • Sodium Tripolyphosphate |
| Synonyms | • Pentasodium Triphosphate; STPP; Tripoly |
| SDS Number/Grade | • 6 |
| REACH Registration Number | • 05-2118797182-33-0000 |

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

| | |
|-----------------------------------|--|
| Relevant identified use(s) | • Food applications for meat and seafood. A wide variety of processed food products including dairy and meat processing. Water Treatment. Sequestrant for alkaline metals, scale control, corrosion control, softening, lead control, red and black water control. |
|-----------------------------------|--|

1.3 Details of the supplier of the safety data sheet

| | |
|---------------------|--|
| Manufacturer | • Innophos 259 Prospect Plains Rd. Bldg A Cranbury, NJ 08512-3706 United States |
|---------------------|--|

Telephone (Technical) • 609-495-2495

1.4 Emergency telephone number

| | |
|---------------------|--|
| Manufacturer | • 800-424-9300 - Chemtrec - within USA and Canada |
| Manufacturer | • 615-386-7816 - Innophos Emergency Communication Team (ECT) |
| Manufacturer | • +1 703-527-3887 - Chemtrec - outside USA and Canada (collect calls accepted) |

Section 2: Hazards Identification

EU/EEC

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]
According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

2.1 Classification of the substance or mixture

| | |
|----------------|---|
| CLP | • Skin Irritation 2 - H315 Eye Irritation 2 - H319 |
| DSD/DPD | • Irritant (Xi) R36/38 |

2.2 Label Elements

| | |
|------------|----------------|
| CLP | WARNING |
|------------|----------------|



- Hazard statements**
- H315 - Causes skin irritation
 - H319 - Causes serious eye irritation

Precautionary statements

- Prevention**
- P264 - Wash thoroughly after handling.
 - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response**
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
 - P321 - Specific treatment, see supplemental first aid information.
 - P332+P313 - If skin irritation occurs: Get medical advice/attention.
 - P362 - Take off contaminated clothing and wash before reuse.
 - P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P337+P313 - If eye irritation persists: Get medical advice/attention.

DSD/DPD



- Risk phrases**
- R36/38 - Irritating to eyes and skin.
- Safety phrases**
- S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

2.3 Other Hazards

- CLP**
- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.
- DSD/DPD**
- According to European Directive 1999/45/EC this material is considered dangerous.

United States (US)

According to OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

- OSHA HCS 2012**
- Skin Irritation 2 - H315
 - Eye Irritation 2 - H319

2.2 Label elements

OSHA HCS 2012

WARNING



- Hazard statements**
- Causes skin irritation - H315
 - Causes serious eye irritation - H319

Precautionary statements

- Prevention**
- Wash thoroughly after handling. - P264
 - Wear protective gloves/protective clothing/eye protection/face protection. - P280
- Response**
- IF ON SKIN: Wash with plenty of soap and water. - P302+P352
 - Specific treatment, see supplemental first aid information. - P321
 - If skin irritation occurs: Get medical advice/attention. - P332+P313
 - Take off contaminated clothing and wash before reuse. - P362
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338
 - If eye irritation persists: Get medical advice/attention. - P337+P313

2.3 Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Canada**According to WHMIS****2.1 Classification of the substance or mixture****WHMIS**

- Other Toxic Effects - D2B

2.2 Label elements**WHMIS**

- Other Toxic Effects - D2B

2.3 Other hazards**WHMIS**

- In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

Section 3 - Composition/Information on Ingredients**3.1 Substances**

- Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

3.2 Mixtures

| Composition | | | | | |
|---------------------------------------|--|-------|--|--|----------|
| Chemical Name | Identifiers | % | LD50/LC50 | Classifications According to Regulation/Directive | Comments |
| Triphosphoric acid, sodium salt (1:5) | CAS: 7758-29-4 EC Number: 231-838-7 | > 94% | Ingestion/Oral-Rat LD50 • 3120 mg/kg Skin-Rabbit LD50 • >4640 mg/kg | EU DSD/DPD: Self Classified: Xi; R38 EU CLP: Self Classified: Skin Irrit. 2, H315 OSHA HCS 2012: Skin Irrit. 2 | NDA |
| Diphosphoric acid, sodium salt (1:4) | CAS: 7722-88-5 EC Number: 231-767-1 | < 6% | Ingestion/Oral-Rat LD50 • 4 g/kg | EU DSD/DPD: Self Classified: Xi; R36/37/38 EU CLP: Self Classified: Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3: Resp. Irrit., H335 OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3: Resp. Irrit. | NDA |

See Section 16 for full text of H-statements and R-phrases.

Section 4 - First Aid Measures**4.1 Description of first aid measures****Inhalation**

- Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

- Skin**
- IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
- Eye**
- Flush eyes with water for at least 15 minutes while holding eyelids open. Remove contact lenses if worn. If eye irritation persists: Get medical advice/attention.
- Ingestion**
- Do NOT induce vomiting. Do not give anything by mouth to an unconscious person. Rinse mouth. Vomiting may occur spontaneously. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

4.2 Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

4.4 Other information

- Call 911 or emergency medical service. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media ● Not combustible. Use extinguishing media suitable for surrounding fire.

Unsuitable Extinguishing Media ● None known.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards ● Non-combustible.

Hazardous Combustion Products ● Oxides of sodium, oxides of phosphorus.

5.3 Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.
LARGE FIRES: Move containers from fire area if you can do it without risk.
LARGE FIRES: Do not scatter spilled material with high pressure water streams.
LARGE FIRES: Dike fire-control water for later disposal.

Section 6 - Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions ● Do not touch or walk through spilled material.

Emergency Procedures ● Keep unauthorized personnel away.

6.2 Environmental precautions

- LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas.

6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Avoid generating dust.
SMALL DRY SPILLS: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.
LARGE SPILLS: Cover powder spill with plastic sheet or tarp to minimize spreading. Clean up residual material by washing area with water. Collect washings for disposal. Decontaminate tools and equipments after cleanup.

6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

7.1 Precautions for safe handling

Handling

- Keep containers closed when not in use. Avoid breathing dust. Avoid direct or prolonged contact with skin and eyes. Do not ingest. Do not use in areas without adequate ventilation.

7.2 Conditions for safe storage, including any incompatibilities

Storage

- Store in a tightly closed container. Product is hygroscopic and tends to cake on storage. Store in an area that is cool, dry and isolated from all toxic and harmful substances.

7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

8.1 Control parameters

| Exposure Limits/Guidelines | | | | | | |
|---|--------|--|--|-------------------------|--|--|
| | Result | ACGIH | Argentina | Australia | Austria | Belgium |
| Sodium Tripolyphosphate as Particulates not otherwise classified (PNOC) | TWAs | 10 mg/m ³ TWA (inhalable particles, recommended); 3 mg/m ³ TWA (respirable particles, recommended) <i>as Particulates not otherwise classified (PNOC)</i> | 10 mg/m ³ TWA [CMP] (inhalable fraction, particulate matter containing no asbestos and less than 1% crystalline silica); 3 mg/m ³ TWA [CMP] (respirable fraction, particulate matter containing no asbestos and less than 1% crystalline silica) <i>as Particulates not otherwise classified (PNOC)</i> | Not established | Not established | 3 mg/m ³ TWA (alveolar fraction); 10 mg/m ³ TWA (inhalable fraction) <i>as Particulates not otherwise classified (PNOC)</i> |
| Diphosphoric acid, sodium salt (1:4) (7722-88-5) | TWAs | Not established | 5 mg/m ³ TWA [CMP] | 5 mg/m ³ TWA | Not established | 5 mg/m ³ TWA |
| | MAKs | Not established | Not established | Not established | 5 mg/m ³ TWA [TMW] (inhalable fraction) | Not established |
| | STELs | Not established | Not established | Not established | 10 mg/m ³ STEL [KZW] (inhalable fraction, 4 X 15 min) | Not established |
| Exposure Limits/Guidelines (Con't.) | | | | | | |
| | Result | China | Denmark | France | Indonesia | Ireland |
| | STELs | 16 mg/m ³ STEL (free SiO ₂ <10%, except asbestos and toxic substances. Use PC-STEL of silica When free SiO ₂ >10%, | Not established | Not established | Not established | Not established |

| | | | | | | |
|---|------|---|-----------------|-------------------|--|--|
| Sodium Tripolyphosphate as Particulates not otherwise classified (PNOC) | | total) <i>as Particulates not otherwise classified (PNOC)</i> | | | | |
| | TWAs | 8 mg/m3 TWA (free SiO2 <10%, except asbestos and toxic substances. Use PC-TWA of silica When free SiO2 >10%, total) <i>as Particulates not otherwise classified (PNOC)</i> | Not established | Not established | 10 mg/m3 TWA (not containing Asbestos and the crystal content is <1%, inhalable particulate); 3 mg/m3 TWA (not containing Asbestos and the crystal content is <1%, respirable particulate) <i>as Particulates not otherwise classified (PNOC)</i> | 10 mg/m3 TWA (total inhalable); 4 mg/m3 TWA (respirable) <i>as Particulates not otherwise classified (PNOC)</i> |
| Diphosphoric acid, sodium salt (1:4) (7722-88-5) | TWAs | Not established | 5 mg/m3 TWA | 5 mg/m3 TWA [VME] | 5 mg/m3 TWA | 5 mg/m3 TWA |

Exposure Limits/Guidelines (Con't.)

| | Result | Israel | Korea | Malaysia | New Zealand | NIOSH |
|---|--------|--|---|--|--|-----------------|
| Sodium Tripolyphosphate as Particulates not otherwise classified (PNOC) | TWAs | 10 mg/m3 TWA (recommended, inhalable particles); 3 mg/m3 TWA (recommended, respirable particles) <i>as Particulates not otherwise classified (PNOC)</i> | 10 mg/m3 TWA (no more than 1% crystalline silica, Serial No. 699) <i>as Particulates not otherwise classified (PNOC)</i> | 10 mg/m3 TWA (particulate matter containing no Asbestos and <1% crystalline Silica, inhalable fraction); 3 mg/m3 TWA (particulate matter containing no Asbestos and <1% crystalline Silica, respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i> | 3 mg/m3 TWA (respirable dust); 10 mg/m3 TWA (inhalable dust) <i>as Particulates not otherwise classified (PNOC)</i> | Not established |
| Diphosphoric acid, sodium salt (1:4) (7722-88-5) | TWAs | Not established | 5 mg/m3 TWA (Serial No. 549) | 5 mg/m3 TWA | 5 mg/m3 TWA | 5 mg/m3 TWA |

Exposure Limits/Guidelines (Con't.)

| | Result | Norway | OSHA | Portugal | Singapore | South Africa |
|--|--------|--------|------|---|-----------|--------------|
| | | | | 10 mg/m3 TWA [VLE-MP] (inhalable fraction, particulate matter containing no | | |

| | | | | | | |
|---|------|--|--|--|--|-------------------------|
| Sodium Tripolyphosphate as Particulates not otherwise classified (PNOC) | TWAs | 10 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable dust) <i>as Particulates not otherwise classified (PNOC)</i> | 15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i> | Asbestos and < 1% Crystalline silica); 3 mg/m ³ TWA [VLE-MP] (respirable fraction, particulate matter containing no Asbestos and < 1% Crystalline silica) <i>as Particulates not otherwise classified (PNOC)</i> | 10 mg/m ³ PEL <i>as Particulates not otherwise classified (PNOC)</i> | Not established |
| Diphosphoric acid, sodium salt (1:4) (7722-88-5) | TWAs | 5 mg/m ³ TWA | Not established | Not established | 5 mg/m ³ PEL | 5 mg/m ³ TWA |

Exposure Limits/Guidelines (Con't.)

| | Result | Spain | Switzerland | Taiwan | United Kingdom | Venezuela |
|---|--------|--|---|-------------------------|--|--|
| Sodium Tripolyphosphate as Particulates not otherwise classified (PNOC) | TWAs | 10 mg/m ³ TWA [VLA-ED] (recommended limit, this value is for the particulate matter that is free from Asbestos and contains less than 1% of Crystalline silica; no toxicological data to support TWA. Do not exceed generic limit value provided, inhalable fraction); 3 mg/m ³ TWA [VLA-ED] (recommended limit, this value is for the particulate matter that is free from Asbestos and contains less than 1% of Crystalline silica; no toxicological data to support TWA. Do not exceed generic limit value provided, respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i> | Not established | Not established | Not established | 10 mg/m ³ TWA [CAP (total inhalable particulate containing no Asbestos and <1% Crystalline silica, inhalable fraction)]; 3 mg/m ³ TWA [CAP (total inhalable particulate containing no Asbestos and <1% Crystalline silica, respirable fraction)] <i>as Particulates not otherwise classified (PNOC)</i> |
| Diphosphoric acid, sodium salt (1:4) (7722-88-5) | MAKs | Not established | 5 mg/m ³ TWA [MAK] (inhalable) | Not established | Not established | Not established |
| | TWAs | 5 mg/m ³ TWA [VLA-ED] | Not established | 5 mg/m ³ TWA | 5 mg/m ³ TWA | 5 ppm TWA [CAP |
| | STELs | Not established | Not established | Not established | 15 mg/m ³ STEL (calculated) | Not established |

Exposure Control Notations

South Africa

•Diphosphoric acid, sodium salt (1:4) (7722-88-5): **Skin:** (Skin Notation)

8.2 Exposure controls

Engineering Measures/Controls

- Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Personal Protective Equipment

Respiratory

- For limited exposure use an N95 dust mask. For prolonged exposure use an air-purifying respirator with high efficiency particulate air (HEPA) filters. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

- Wear safety glasses.

Skin/Body

- Wear appropriate gloves.

General Industrial Hygiene Considerations

- Do not use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored. Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.

Environmental Exposure Controls

- Follow best practice for site management and disposal of waste.

Key to abbreviations

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)

STEL = Short Term Exposure Limits are based on 15-minute exposures

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

TWAEV = Time-Weighted Average Exposure Value

ACGIH = American Conference of Governmental Industrial Hygiene

OSHA = Occupational Safety and Health Administration

Section 9 - Physical and Chemical Properties

9.1 Information on Physical and Chemical Properties

| Material Description | | | |
|-------------------------------------|------------------|------------------------|------------------------------|
| Physical Form | Solid | Appearance/Description | White granules with no odor. |
| Color | White | Odor | Odorless |
| Odor Threshold | Data lacking | | |
| General Properties | | | |
| Boiling Point | Data lacking | Melting Point | 622 C(1151.6 F) |
| Decomposition Temperature | Data lacking | pH | 9.5 to 10.2 |
| Specific Gravity/Relative Density | Data lacking | Water Solubility | Soluble |
| Viscosity | Data lacking | Explosive Properties | Not Explosive. |
| Oxidizing Properties: | Not an Oxidizer. | | |
| Volatility | | | |
| Vapor Pressure | Data lacking | Vapor Density | Data lacking |
| Evaporation Rate | Data lacking | | |
| Flammability | | | |
| Flash Point | Data lacking | UEL | Data lacking |
| LEL | Data lacking | Autoignition | Data lacking |
| Flammability (solid, gas) | Not Flammable. | | |
| Environmental | | | |
| Octanol/Water Partition coefficient | Data lacking | | |

9.2 Other Information

- No additional physical and chemical parameters noted.

Section 10: Stability and Reactivity

10.1 Reactivity

- No data available

10.2 Chemical stability

- Stable under normal temperatures and pressures.

10.3 Possibility of hazardous reactions

- Hazardous polymerization will not occur.

10.4 Conditions to avoid

- Dusting conditions, extreme heat, extreme humidity.

10.5 Incompatible materials

- Strong acids, strong oxidizing agents.

10.6 Hazardous decomposition products

- None known.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

| Sodium Tripolyphosphate | | | | | | | | |
|---|--------------|------------------|-----------|---|---------|------------------------------------|---------------|-----------|
| Test Type | Dosage | Route | Species | Duration | Results | Test Class | Target Organs | Comments |
| Irritation | | Skin | Rabbit | NDA | NDA | Moderate irritation | NDA | NDA |
| Irritation | | Eye | Rabbit | NDA | NDA | Irritating (non-specific severity) | NDA | Unwashed. |
| Irritation | | Eye | Rabbit | NDA | NDA | Essentially non-irritating | NDA | Washed. |
| Irritation | = 3900 mg/kg | Unreported Route | Rat | NDA | NDA | NDA | NDA | NDA |
| Irritation | = 4640 mg/kg | Unreported Route | Rabbit | NDA | NDA | NDA | NDA | NDA |
| Component Name | | | CAS | Data | | | | |
| Triphosphoric acid, sodium salt (1:5) (> 94%) | | | 7758-29-4 | Irritation: skn-rbt 500 mg/24H MOD; Multi-dose Toxicity: orl-rat TDL0:2730 mg/kg/13W-l | | | | |
| Diphosphoric acid, sodium salt (1:4) (< 6%) | | | 7722-88-5 | Acute Toxicity: orl-rat LD50:4 gm/kg; skn-rbt LD :>300 mg/kg | | | | |
| GHS Properties | | | | Classification | | | | |
| Acute toxicity | | | | EU/CLP • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Data lacking; Acute Toxicity - Oral - Classification criteria not met OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Data lacking; Acute Toxicity - Oral - Classification criteria not met | | | | |
| Aspiration Hazard | | | | EU/CLP • Not relevant OSHA HCS 2012 • Not relevant | | | | |
| Carcinogenicity | | | | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking | | | | |
| Germ Cell Mutagenicity | | | | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking | | | | |

| | |
|--------------------------------------|---|
| Skin corrosion/Irritation | EU/CLP • Skin Irritation 2 OSHA HCS 2012 • Skin Irritation 2 |
| Skin sensitization | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking |
| STOT-RE | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking |
| STOT-SE | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking |
| Toxicity for Reproduction | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking |
| Respiratory sensitization | EU/CLP • Data lacking OSHA HCS 2012 • Data lacking |
| Serious eye damage/Irritation | EU/CLP • Eye Irritation 2 OSHA HCS 2012 • Eye Irritation 2 |

Route(s) of entry/exposure

- Inhalation, Skin, Eye, Ingestion

Medical Conditions Aggravated by Exposure

- Disorders of the lungs.

Potential Health Effects**Inhalation****Acute (Immediate)**

- May cause irritation. Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.

Chronic (Delayed)

- No data available.

Skin**Acute (Immediate)**

- Causes skin irritation.

Chronic (Delayed)

- No data available.

Eye**Acute (Immediate)**

- Causes serious eye irritation.

Chronic (Delayed)

- No data available.

Ingestion**Acute (Immediate)**

- Low acute oral toxicity. Ingestion of large quantities may cause abdominal pain, abdominal cramps, nausea, vomiting, diarrhea.

Chronic (Delayed)

- No data available.

Key to abbreviations

LD = Lethal Dose

MOD = Moderate

TD = Toxic Dose

Section 12 - Ecological Information**12.1 Toxicity**

- No data found for product.

12.2 Persistence and degradability

- No specific biodegradation test data located. While the alkalinity of this material is readily reduced in natural waters, the resulting phosphate may persist indefinitely or

incorporate into biological systems.

12.3 Bioaccumulative potential

- No data found for product.

12.4 Mobility in Soil

- No data found for product.

12.5 Results of PBT and vPvB assessment

- PBT and vPvB assessment has not been carried out.

12.6 Other adverse effects

- No studies have been found.

Section 13 - Disposal Considerations

13.1 Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

| | 14.1 UN number | 14.2 UN proper shipping name | 14.3 Transport hazard class(es) | 14.4 Packing group | 14.5 Environmental hazards |
|-----------|----------------|------------------------------|---------------------------------|--------------------|----------------------------|
| DOT | NDA | Not Regulated | NDA | NDA | NDA |
| TDG | NDA | Not Regulated | NDA | NDA | NDA |
| IMO/IMDG | NDA | Not Regulated | NDA | NDA | NDA |
| IATA/ICAO | NDA | Not Regulated | NDA | NDA | NDA |

14.6 Special precautions for user

- None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- Not relevant.

Section 15 - Regulatory Information

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

SARA Hazard Classifications • Acute

| Inventory | | | | | | |
|---------------------------------------|-----------|------------|-------------|-------|-----------|-----------|
| Component | CAS | Canada DSL | Canada NDSL | China | EU EINECS | EU ELNICS |
| Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Yes | No | Yes | Yes | No |
| Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Yes | No | Yes | Yes | No |

| Inventory (Con't.) | | | | |
|---------------------------------------|-----------|-------------|-------------------|------|
| Component | CAS | New Zealand | Philippines PICCS | TSCA |
| Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Yes | Yes | Yes |
| Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Yes | Yes | Yes |

Canada

Labor

Canada - WHMIS - Classifications of Substances

- | | | |
|---|-----------|------------|
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | D2B |

Canada - WHMIS - Ingredient Disclosure List

- | | | |
|---|-----------|------------|
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | 1 % |

Environment

Canada - CEPA - Priority Substances List

- | | | |
|---|-----------|------------|
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Not Listed |

Germany

Environment

Germany - TA Luft - Types and Classes

- | | | |
|---|-----------|------------|
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Not Listed |

Germany - Water Classification (VwVwS) - Annex 1

- | | | |
|---|-----------|------------|
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Not Listed |

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

- | | | |
|---|-----------|---|
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | ID Number 1209, hazard class 1 - low hazard to waters |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Not Listed |

Germany - Water Classification (VwVwS) - Annex 3

- | | | |
|---|-----------|---|
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | ID Number 5096, hazard class 1 - low hazard to waters |

Philippines

Other

Philippines - Priority Chemical List

- | | | |
|---|-----------|------------|
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Not Listed |

Singapore

Other

Singapore - Corrosive and Explosive Substances - Corrosive Substances

| | | |
|---|-----------|------------|
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Not Listed |

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

| | | |
|---|-----------|------------|
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Not Listed |

U.S. - OSHA - Specifically Regulated Chemicals

| | | |
|---|-----------|------------|
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Not Listed |

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

| | | |
|---|-----------|------------|
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Not Listed |

U.S. - CAA (Clean Air Act) - Class II Ozone Depletors

| | | |
|---|-----------|------------|
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Not Listed |

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

| | | |
|---|-----------|------------|
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Not Listed |

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

| | | |
|---|-----------|------------|
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Not Listed |

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

| | | |
|---|-----------|------------|
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Not Listed |

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

| | | |
|---|-----------|------------|
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Not Listed |

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

| | | |
|---|-----------|------------|
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Not Listed |

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

| | | |
|---|-----------|------------|
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Not Listed |

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

| | | |
|---|-----------|------------|
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Not Listed |

U.S. - California - Proposition 65 - Developmental Toxicity

| | | |
|---|-----------|------------|
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
|---|-----------|------------|

| | | |
|--|-----------|------------|
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Not Listed |
| U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL) | | |
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Not Listed |
| U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL) | | |
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Not Listed |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Female | | |
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Not Listed |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Male | | |
| • Triphosphoric acid, sodium salt (1:5) | 7758-29-4 | Not Listed |
| • Diphosphoric acid, sodium salt (1:4) | 7722-88-5 | Not Listed |

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H335 - May cause respiratory irritation
R36/37/38 - Irritating to eyes, respiratory system and skin.
R38 - Irritating to skin.

Last Revision Date

- 29/January/2014

Preparation Date

- 15/November/2004

Disclaimer/Statement of Liability

- The information herein is given in good faith but no warranty, expressed or implied, is made.

Key to abbreviations

NDA = No Data Available