ZINC PHOSPHATE
MATERIAL SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier
Product form: Substance
EC no: 231-944-3
CAS No: 7779-90-0
Product code: 33620

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

1.2.1 Relevant identified uses
Industrial/professional use spec: Industrial
For professional use only
Use of the substance/mixture: Laboratory Reagent

1.2.2 Uses advised against
No additional information available

1.3 Details of the manufacturer of the safety data sheet
Techno Pharmchem
Plot No.1022, Modern Industrial Estate,
Bahadurgarh-124507, India
T +91 11 23646422
info@technopharmchem.com

1.4 Emergency telephone number
Emergency number: +91 11 23646422 (9:30am – 5.30pm)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification according to regulation (EC) No. 1272/2008 [CLP]
Hazardous to the aquatic — Chronic
H410
Hazard, Category 1

Full text of classification categories and H statements: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC
N; R50/53
Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects
No additional information available
2.2. Label elements
Labelling according to regulation (EC) No. 1272/2008 [CLP]
Signal word (CLP) : Warning
Hazard statements (CLP) : H410 - Toxic to aquatic life with long lasting effects
Precautionary statements (CLP) : P273 - Avoid release to the environment
P501 - Dispose of contents/container to ...

2.3. Other hazards
No additional information available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance
Name : ZINC PHOSPHATE
CAS No : 7779-90-0
EC no : 231-944-3

Full text of R- and H-phrases: see section 16

3.2. Mixtures
Not applicable

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures
First-aid measures after inhalation : Assure fresh air breathing. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact : Wash with plenty of soap and water. Get immediate medical advice/attention.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.
First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed
No additional information available

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

SECTION 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media
Unsuitable extinguishing media : Do not use a heavy water stream.
5.2. Special Hazards arising from the substance or mixture
No additional information available

5.3. Advice for firefighters
Protection during firefighting: 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: Evacuate unnecessary personnel.

6.1.2. For emergency responders
Protective equipment: Use personal protective equipment as required.

6.2. Environmental precautions
Very toxic to aquatic life with long lasting effects

6.3. Methods and material for containment and cleaning up
Methods for cleaning up: Minimize generation of dust. On land, sweep or shovel into suitable containers.

6.4. Reference to other sections
No additional information available

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling
Precautions for safe handling: Avoid contact with skin and eyes. Avoid dust formation. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Store in a well-ventilated place. Keep container tightly closed.

7.3. Specific end use(s)
No additional information available
SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control Parameters
No additional information available

8.2 Exposure controls
Hand protection : Protective gloves
Eye protection : Chemical goggles or safety glasses
Skin and body protection : Wear suitable protective clothing
Respiratory protection : Wear respiratory protection

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>Colour</td>
<td>White powder</td>
</tr>
<tr>
<td>Odour</td>
<td>Odourless</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate</td>
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</tr>
<tr>
<td>Melting Point</td>
<td>900°C</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (Solid,gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Density</td>
<td>3.998 g/cm³</td>
</tr>
<tr>
<td>Solubility</td>
<td>Water: Insoluble in water</td>
</tr>
<tr>
<td>Log pow</td>
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</tr>
<tr>
<td>Viscosity, kinematic</td>
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</tr>
<tr>
<td>Viscosity, dynamic</td>
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</tr>
<tr>
<td>Explosive properties</td>
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<tr>
<td>Oxidising properties</td>
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<tr>
<td>Explosive limits</td>
<td>No data available</td>
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</tbody>
</table>

9.2 Other Information
No additional information available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
No additional information available
10.2. Chemical Stability
Stable under normal conditions

10.3. Possibility of hazardous reactions
No additional information available

10.4. Conditions to avoid
Direct sunlight. Air contact. Moisture

10.5. Incompatible materials
Oxidising agents

10.6. Hazardous decomposition products
No additional information available

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects
Acute toxicity: Not classified
Skin corrosion/irritation: Not classified
Serious eye damage/irritation: Not classified
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
Specific target organ toxicity: Not classified
   (single exposure)
Specific target organ toxicity: Not classified
   (repeated exposure)
Aspiration hazard: Not classified

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity
Ecology - water: Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>ZINC PHOSPHATE (7779-90-0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Persistence and degradability</td>
</tr>
</tbody>
</table>

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available
12.5. Results of PBT and vPvB assessment
No additional information available

12.6. Other adverse effects
No additional information available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Product/packaging disposal recommendations: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number
ADR/RID: - 3077
IMDG: - 3077
IATA: - 3077

14.2. UN Proper shipping name
ADR/RID: Environmentally hazardous substance, solid, n.o.s. (Zinc phosphate)
IMDG: Environmentally hazardous substance, solid, n.o.s. (Zinc phosphate)
IATA: Environmentally hazardous substance, solid, n.o.s. (Zinc phosphate)

14.3. Transport Hazard class(es)
ADR/RID: - 9
IMDG: - 9
IATA: - 9

14.4. Packaging group
ADR/RID: - III
IMDG: - III
IATA: - III

14.5. Environmental hazards
ADR/RID: yes
IMDG Marine pollutant: no
IATA: yes

14.6. Special precautions for user
No data available

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Ensure all local, regional, national and/or international regulations are observed.

15.2. Chemical safety Assessment
For this product a chemical safety assessment was not carried out.

SECTION 16: OTHER INFORMATION

The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.