JLS-PNA

1. Product Identification

Chemical product name: Melamine polyphosphate
EINECS No: 243-601-5
CAS No.: 20208-95-1
Product No.: 200601
Molecular Weight: 206
Chemical Formula: \((\text{C}_3\text{H}_7\text{N}_6\text{O}_3\text{P})_n\)

2. Composition /Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS no.</th>
<th>%(w/w)</th>
<th>Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melamine polyphosphate</td>
<td>20208-95-1</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

3. Hazards Identification

Physical/chemical hazards: None
Environmental hazards: None
Effect of exposure: Irritating to eyes and respiratory tract at exposure
Symptom of exposure

Inhalation: Sore throat, coughing.
Ingestion: Result in abdominal pain.
Skin contact: No irritation.
Eye contact: Redness, pain.

4. First Aid Measures

Ingestion: Wash out mouth with water.
5. Fire Fighting Measures

Extinguishing media
Suitable : Not available.
Not suitable : Not available.
Unusual fire and explosion hazards: Decomposition at temperatures above 350°C.
Hazardous thermal decomposition and combustion products: Above 500°C: hydrogen cyanide.
Protection of firefighters: Self-contained breathing equipment.

6. Accidental Release Measures

Personal precautions: Use appropriate protective clothing and equipment (see section 8).
Environmental precautions
Methods for cleaning up: Collect spilled material in sealable containers. Forward for disposal.
Remarks: Prevent dispersion of dust.

7. Handling and Storage

Handling: Take the usual precautions.
Storage: Store away from highly flammable substances. Keep in dry Place.
Packaging materials
Other requirements Prevent dispersion of dust.

8. Exposure Controls/Personal Protection

Engineering measures: Ventilation recommended to minimize dust exposure.
Hygienic measures: When using do not eat, drink or smoke.
Personal protection
Respiratory system: Dust mask.
Hands: Rubber coated gloves.
Eyes: Safety goggles.
Other exposure limits: According to Threshold Limit Value of nuisance dust: (Expected 10mg/m³ total dust. Expected 5 mg/m³ respirable dust.)
Recommended monitoring procedures: Not available.

9. Physical and Chemical Properties

**Appearance:** Fine, white free-flowing powder.

**Thermal decomposition:** ≥350°C

**Density at 25°C**
- approx. 1.7g/cm³.
- Apparent density: 0.7-0.8g/cm³

**PH** 5.0-7.5 (at 25°C in 10% suspension)

**Boiling point** Not applicable

**Melting point** Decomposition at temperatures above 350°C.

**Flash point** Not applicable

**Upper explosion limit** Not applicable

10. Stability and Reactivity

**Stability** Stable under ordinary conditions of use and storage.

**Hazardous decomposition products:** None (normal conditions).

**Hazardous polymerization:** Will not occur (normal conditions).

**Conditions to avoid:** Avoid temperatures above 350°C.

**Materials to avoid:** Not applicable.

**Hygroscopic** Non-hygroscopic, however when stored in open container, the product can still absorb small amounts of moisture owing to the high surface area of the power.

11. Toxicological information

**Acute toxicity**
- Oral: LD50 rat: expected > 4000 mg/kg

**Eye irritation** Slightly irritating.

**Skin irritation** Very slightly irritating.

**Sensitization** Not sensitizing (Expected on basis of structure).

12. Ecological information

**Mobility:** Not available

**Persistence and degradability** Expected inherently biodegradable.

**Bioaccumulative potential:** None.
13. Disposal considerations

Methods of disposal: Disposal according to the local legislation.

14. Transport information

<table>
<thead>
<tr>
<th>Mode</th>
<th>Restriction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land, road, railway</td>
<td>Not restricted</td>
</tr>
<tr>
<td>Inland waterways, sea</td>
<td>Not restricted</td>
</tr>
<tr>
<td>Air</td>
<td>Not restricted</td>
</tr>
</tbody>
</table>

15. Regulatory information

<table>
<thead>
<tr>
<th>Region</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEC</td>
<td>Not classified as a dangerous substance according to EC criteria</td>
</tr>
<tr>
<td>USA</td>
<td>Reported in the EPA TSCA Inventory</td>
</tr>
<tr>
<td>Japan</td>
<td>Exempt from notification requirements under the Kashinho</td>
</tr>
</tbody>
</table>

16. Other information

All information given by or on behalf of JLS as to properties, specifications, use, etc. of the products is based on research, including literature and is believed reliable.

All information is based on our present state of knowledge and is intended to provide general notes on our products and their uses.

All information is supplied upon the condition that the persons receiving same will make their own determination as to its safety and suitability for their purposes prior to use.