

**SAFETY DATA SHEET**

1 | Page

**PNP1C****Section 1: Chemical Product and Company Identification**

**Product Name:** PNP1C  
**EINECS #:** 269-789-9  
**CAS#:** 68333-79-9  
**Chemical Name:** Compound based on Ammonium Polyphosphate

**Section 2: Composition and Information on Ingredients**

**Composition:**

Name	CAS #	% by Weight
Ammonium Polyphosphate	68333-79-9	-
Melamine	108-78-1	>10

**Toxicological Data on Ingredients:** Not applicable.

**Section 3: Hazards Identification**

**Physical/chemical Hazards:** None  
**Environmental Hazards:** None  
**Effects of exposure:** Irritating to eyes and respiratory tract at exposure above.

**Symptom of Exposure:**  
**Inhalation:** Sore throat, coughing  
**Ingestion:** Result in abdominal pain  
**Skin Contact:** No irritation  
**Eye Contact:** Redness, pain

**Section 4: First Aid Measures**

**Ingestion:** Wash out mouth with water  
**Inhalation:** Remove victim to fresh air. Consult a doctor if necessary.  
**Skin Contact:** Wash off with water and soap.  
**Eye Contact:** Wash out with plenty of water. Consult a doctor if necessary.

The information is given with best knowledge but no obligation or liability for any information in this document. Customer is responsible for the application of this product and information suitable for their specific purpose. Maha Chemicals assumes no warranties of any kind nor guarantee any representation, recommendation or data herein.

## SAFETY DATA SHEET

2 | Page

### Section 5: Fire and Explosion Data

**Extinguishing Media****Suitable:** Not available.**Not Suitable:** Not available.**Unusual Fire and Explosion Hazards:** Decomposition at temperature above 250°C.**Hazardous Thermal Decomposition and Combustion Products:** None.**Protection of Firefighters:** Self-container breathing equipment.

### Section 6: Accidental Release Measures

**Personal Precautions:** Use appropriate protective clothing and equipment (see section 8).**Environmental Precautions:** Take the usual precautions.**Methods for Cleaning Up:** Collect spilled material in sealed containers. Forward for disposal.**Remarks:** Prevent dispersion of dust.

### Section 7: Handling and Storage

**Handling:** Take the usual precautions.**Storage:** Store away from highly flammable substances. Keep in dry place.**Other Requirements:** Prevent dispersion of dust.

### Section 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 Limit Value of nuisance dust: (Expected 10mg/m<sup>3</sup> total dust.Expected 5mg/m<sup>3</sup> respirable dust.).**Recommended Monitoring Procedures:** Not available.

The information is given with best knowledge but no obligation or liability for any information in this document. Customer is responsible for the application of this product and information suitable for their specific purpose. Maha Chemicals assumes no warranties of any kind nor guarantee any representation, recommendation or data herein.

## SAFETY DATA SHEET

3 | Page

Section 9: Physical and Chemical Properties	
<b>Appearance</b>	Fine, free flow white powder
<b>Phosphorous</b>	20.0-24.0% (m/m)
<b>Water Content</b>	0.5 max
<b>Thermal Decomposition</b>	≥250°C
<b>Density at 25°C</b>	1.8 g/cm <sup>3</sup>
<b>Apparent Density</b>	0.9 g/cm <sup>3</sup>
<b>Solubility in Water (at 25°C, 10% suspension)</b>	10g/L, max
<b>Average Particle Size (D<sub>50</sub>)</b>	0.5% (m/m) max
<b>Weight Loss</b>	280°C approx. 5% (m/m)
	310°C approx. 10% (m/m)
	380°C approx. 20% (m/m)
<b>Boiling Point</b>	Not applicable
<b>Melting Point</b>	Decomposition at temperatures above 250°C
<b>Flash Point</b>	Not applicable
<b>Lower Explosion Limit</b>	Not applicable
<b>Upper Explosion Limit</b>	Not applicable
<b>Odor</b>	Odorless

Section 10: Stability and Reactivity Data	
<b>Stability</b>	Stable under ordinary conditions of use and storage
<b>Hazardous Decomposition Products</b>	None (normal conditions)
<b>Hazardous Polymerization</b>	Will not occur (normal conditions)
<b>Conditions to Avoid</b>	Avoid temperatures above 270°C
<b>Materials to Avoid</b>	Not applicable
<b>Hygroscopic</b>	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 powder.

The information is given with best knowledge but no obligation or liability for any information in this document. Customer is responsible for the application of this product and information suitable for their specific purpose. Maha Chemicals assumes no warranties of any kind nor guarantee any representation, recommendation or data herein.

## SAFETY DATA SHEET

4 | Page

Section 11: Toxicological Information	
<b>Acute Toxicity</b>	Not applicable
<b>Oral</b>	LD <sub>50</sub> rat: >2000mg/kg
<b>Eye Irritation</b>	Slightly irritating
<b>Skin Irritation</b>	No irritating
<b>Sensitization</b>	Not sensitizing (Expected on basis of structure)
<b>Germ Cell Mutagenicity</b>	Not mutagenic
<b>Carcinogenicity</b>	Not applicable
<b>Reproductive Toxicity</b>	Not toxic
<b>Toxicity to Specific Target Organ (one-contact)</b>	Not applicable
<b>Toxicity to Specific Target Organ (multiple-contact)</b>	Not applicable

Section 12: Ecological Information	
<b>Mobility</b>	Not available
<b>Persistence and Degradability</b>	Expected inherently biodegradable
<b>Bioaccumulative Potential</b>	None
<b>Ecotoxicity</b>	Not applicable
<b>Ames Test</b>	Negative

Section 13: Disposal Considerations	
<b>Methods of Disposal:</b>	Disposal according to the local legislation.

Section 14: Transport Information	
<b>Land, Road, Railways:</b>	Not restricted
<b>Inland Waterways, Sea:</b>	Not restricted
<b>Air:</b>	Not restricted

The information is given with best knowledge but no obligation or liability for any information in this document. Customer is responsible for the application of this product and information suitable for their specific purpose. Maha Chemicals assumes no warranties of any kind nor guarantee any representation, recommendation or data herein.

## SAFETY DATA SHEET

5 | Page

### Section 15: Other Regulatory Information

It is compound of ammonium polyphosphate melamine.

#### Compound 1: Ammonium Polyphosphate

**EEC:** Listed.

**Indication of Danger:** Not subject to labeling in accordance with EEC Directives.

**USA:** Reported in the EPA TSCA Inventory.

**Japan:** Listed in MITI.

#### Compound 2: Melamine

**EEC:** Listed.

**Indication of Danger:** Not subject to labeling in accordance with EEC Directives.

**USA:** Reported in the EPA TSCA Inventory.

**Japan:** Listed in MITI.

### Section 16: Other Information

No other information available.

The information is given with best knowledge but no obligation or liability for any information in this document. Customer is responsible for the application of this product and information suitable for their specific purpose. Maha Chemicals assumes no warranties of any kind nor guarantee any representation, recommendation or data herein.