

## MATERIAL SAFETY DATA SHEET

### **SODIUM ACID PYROPHOSPHATE (SAPP)**

#### **SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION**

**Date of Issue: 27/09/03**

**Rev-02**

1.1 Product Details	
1.1.1 Product name	SODIUM ACID PYROPHOSPHATE
1.1.2 Chemical name	1.Sodium Acid Pyrophosphate 2.Disodium Dihydrogen Diphosphate 3.Disodium Pyrophosphate
1.1.3 Chemical formula	Na <sub>2</sub> H <sub>2</sub> P <sub>2</sub> O <sub>7</sub>
1.2 Company	Aditya Birla Chemicals 77 Moo 6 Soi Sukhaphiban 1, Poochao Saming Prai Road, Samrong, Phrapradaeng, Samutprakarn 10130 Telephone: +66 (0) 2396 1715-6, 2748 5173 – 4 Fax: +66 (0) 2398 0774 E-mail: <a href="mailto:mktg@thaipoly.co.th">mktg@thaipoly.co.th</a> Website: <a href="http://www.thaipoly.com">www.thaipoly.com</a>
1.3 Emergency	Telephone: +66 (0) 2396 1715 - 6, 2748 5173 – 4

#### **SECTION 2: COMPOSITION**

2.1 Ingredients	Disodium Dihydrogen Diphosphate Na <sub>2</sub> H <sub>2</sub> P <sub>2</sub> O <sub>7</sub>
2.2 CAS Number	7758-16-9

#### **SECTION 3: HAZARDS**

3.1 No known hazards
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#### **SECTION 4: FIRST AID MEASURES**

4.1 Eye Contact	None required.
4.2 Skin contact	None required.
4.3 Inhalation / Ingestion	If any symptoms follow ingestion or inhalation, obtain medical advice.

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### **SECTION 5: FIRE-FIGHTING MEASURES**

5.1 Governed by other materials present. No special fire-fighting equipment or measures required.
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### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

6.1 Sweep up spillage and recover/recycle if possible. Otherwise place in a fiber keg or paper sack and dispose of as industrial waste.
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### **SECTION 7: HANDLING & STORAGE**

7.1 Handling	Minimize dust formation.
7.2 Storage	1. Protect from contamination, 2. Store in original, unopened package in clean, cool, dry place. 3. Store one pallet high to avoid compaction.

### **SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

8.1 Regulations	None
8.2 Air contamination limits	None listed

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

9.1 Form	Powder
9.2 Colour	White
9.3 Odour	None
9.4 Change in physical state	Melts above 600°C
9.5 Bulk Density	1.1-1.3 g/ml (50 taps)
9.6 Vapour pressure	Not applicable
9.7 Viscosity	Not applicable
9.8 Solubility	11.9 g per 100 g water at 20°C
9.9 pH Value	4.3 at 20°C (1% soln)
9.10 Flash point	Not applicable
9.11 Ignition temperature	Does not burn or help other materials to burn
9.12 Explosion limits	Not relevant

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### **SECTION 10: STABILITY AND REACTIVITY**

10.1 Thermal decomposition	Loses water above 250°C to form Sodium Hexametaphosphate
10.2 Hazardous thermal decomposition products	None
10.3 Hazardous reactions	None

### **SECTION 11: TOXICOLOGICAL INFORMATION**

11.1 The material, when of sufficient purity, is a permitted food additive. Sodium ions and diphosphate are normal constituents of the human body.

### **SECTION 12: ECOLOGICAL INFORMATION**

12.1 Ecological effects	Slowly hydrolyzed in water to orthophosphate, which can act as a plant nutrient and precipitate heavy metals.
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### **SECTION 13: DISPOSAL CONSIDERATIONS**

13.1 Sweep up spillage and recover/recycle if possible. Otherwise place in a fiber keg or paper sack and dispose of as industrial waste.

### **SECTION 14: TRANSPORT INFORMATION**

14.1 Not classified as a substance hazardous for transport.

### **SECTION 15: REGULATORY INFORMATION**

15.1 Not classified as a substance hazardous for supply

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### SECTION 16: OTHER INFORMATION

16.1 This product may be used in the following applications
16.1.2 As a constituent of baking powder.
16.1.3 As a constituent of blanching solutions for preventing after-cooking darkening of potatoes.
16.1.4 As a constituent of phosphate mixes in meat processing.
16.1.5 As a constituent of cheese emulsifying salts.
16.1.6 As a general buffer and acidifying agent in foodstuffs.
16.1.7 As a dispersant in oil well drilling mud.
16.1.8 In leather treatment to remove iron stains.
16.1.9 In the stabilization of hydrogen peroxide solutions.
16.1.10 As a cleaning agent, in conjunction with Sulphamic acid, in certain dairy applications.
16.1.11 As seafood preservative.

*DISCLAIMER: Every endeavor has been made to ensure that the information contained in this leaflet reliable but we cannot accept liability for any loss, injury or damage which may result from it use. Data given in this Material Safety Data Sheet are solely for guidance in safe handling and use of the product (s) by customers. They do not form part of any specification. Any liability is not acceptable since application of this product is not in our control.*