

## MATERIAL SAFETY DATA SHEET

### TRISODIUM PHOSPHATE (TSP)

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

Date of Issue: 27/09/03

Rev-02

1.1 Product Details	
1.1.1 Product name	1. Trisodium Phosphate Anhydrous 2. Trisodium Phosphate Hydrated
1.1.2 Chemical name	1. Trisodium Phosphate Anhydrous 2. Trisodium Phosphate Hydrated
1.1.3 Chemical formula	1. $\text{Na}_3\text{PO}_4$ 2. $\text{Na}_3\text{PO}_4 \cdot 12\text{H}_2\text{O}$
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	1. Trisodium Phosphate Anhydrous $\text{Na}_3\text{PO}_4$ 2. Trisodium Phosphate Hydrated $\text{Na}_3\text{PO}_4 \cdot 12\text{H}_2\text{O}$
2.2 CAS Number	7601-54-9 (Anhydrous) 10101-89-0 (Hydrated)

#### 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 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

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

9.1 Form	Powder or granules
9.2 Colour	White
9.3 Odour	None
9.4 Change in physical state	Hydrated lose water above 100°C to give anhydrous substance which melts without decomposition above 1000°C (1832°F)
9.5 Bulk Density	0.9-1.1 g/ml dependent on grade (50 taps)
9.6 Vapour pressure	Not applicable
9.7 Viscosity	Not applicable
9.8 Solubility	12.5 g/100 g water at 20°C, 90 g/100 g water at 90°C
9.9 pH Value	12.1 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

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

10.1 Thermal decomposition	Hydrated lose water above 10°C to give anhydrous substance which melts without decomposition above 1000°C
10.2 Hazardous thermal decomposition products	None
10.3 Hazardous reactions	None

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

11.1 When of sufficient purity the material is of low toxicity and is used as a permitted food additive. Food grade material is classified as GRAS (generally recognized as safe) by FDA. High pH of solutions may cause irritation to skin and eyes.

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

12.1 Ecological effects	High pH may affect effluent and sewage treatment processes. Orthophosphate may 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 as industrial waste.
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### SECTION 14: TRANSPORT INFORMATION

14.1 Not classified as a substance hazardous for transport.
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### SECTION 15: REGULATORY INFORMATION

15.1 Labeling based on supplier's classification (Directive 67/548/EEC and UK CPL Regulations 1984)
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15.2 R36/38 - Irritating to eyes and skin.
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15.3 S37/39 - Wear suitable gloves and eye/face protection.
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### SECTION 16: OTHER INFORMATION

16.1 This product may be used in the following applications:
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16.1.1 Industrial detergents such as degreasers for steel.
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16.1.2 Heavy - duty domestic cleaners such as for toilets and floors.
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16.1.3 Boiler - water treatment.
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16.1.4 Testing of steel parts after cleaning or pickling.
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16.1.5 Food grade material may be used as an additive to processed cheese.
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*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.*