

MATERIAL SAFETY DATA SHEET

SODIUM HEXAMETAPHOSPHATE (SHMP)

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Date of Issue: 27/09/03

Rev-02

1.1 Product Details	
1.1.1 Product name	1. SODIUM HEXAMETAPHOSPHATE 2. SODIUM POLYPHOSPHATE - GLASS
1.1.2 Chemical name	Sodium Hexametaphosphate
1.1.3 Chemical formula	$(\text{NaPO}_3)_n$ where $n = 3-30$
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: mktg@thaipoly.co.th website: www.thaipoly.com
1.3 Emergency	Telephone: +66 (0) 2396 1715 - 6, 2748 5173 –4

SECTION 2: COMPOSITION

2.1 Ingredients	Sodium polyphosphate of general formula $(\text{NaPO}_3)_n$ where $n = 3-30$
2.2 CAS Number	68915-31-1

SECTION 3: HAZARDS

3.1 No known hazards

SECTION 4: FIRST AID MEASURES

4.1 Eye Contact	Wash with water
4.2 Skin contact	None required
4.3 Inhalation/ingestion	If any symptoms following ingestion or inhalation obtain medical advice

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 paper or plastic sacks and dispose of as industrial waste.

SECTION 7: HANDLING & STORAGE

7.1 Handling	No special precaution required.
7.2 Storage	Hygroscopic solid. Store in tightly sealed containers in a dry cool place. Store one pallet high to avoid compaction. Protect food grade material from contamination.

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	Hygroscopic glassy chips or powder or granules dependent on type.
9.2 Colour	White
9.3 Odour	None
9.4 Change in physical state	Melts above 600°C
9.5 Bulk Density	0.8-1.5 g/ml
9.6 Vapour pressure	Not applicable
9.7 Viscosity	Not applicable
9.8 Solubility	Greater than 50 g per 100 g water at 25°C
9.9 pH Value	7.0 at 25°C (1% soln.)
9.10 Flash point	Not applicable
9.11 Ignition temperature	Does not burn
9.12 Explosion limits	Not relevant

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SECTION 10: STABILITY AND REACTIVITY

10.1 Thermal decomposition	None. Melts at around 600°C
10.2 Hazardous thermal decomposition products	None
10.3 Hazardous reactions	None

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Low toxicity - when of suitable purity is a permitted food additive.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecological effects	Hydrolyses in water to orthophosphate which 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 paper or plastic sacks 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

SECTION 16: OTHER INFORMATION

16.1 This product may be used for: Boiler water treatment, Detergent builder, Dispersant in paper - coating mixtures, Pre-tanning agent for leather, Deflocculant in ceramics, Bonding agent in refractory, paint manufacture, seafood preservative, food additive for a wide variety of prepared foods e.g. Cheese, ham, sausages, jams, and canned vegetables.

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