

DSC Trading Co., Ltd.

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SAFETY DATA SHEET (SDS/MSDS)

SECTION 1: IDENTIFICATION

Product Name: Sodium Hexametaphosphate (SHMP)

CAS No.: 10124-56-8 | **EC No.:** 233-343-1

Recommended Use: Water softener, dispersing agent, scale inhibitor, food additive.

Company: DSC Trading Co., Ltd.

Emergency Contact: +86 18020070568

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification: Not a hazardous substance or mixture according to GHS standards.

Potential Health Effects:

- Eye: May cause mild mechanical irritation.
- Skin: May cause mild irritation with prolonged contact.
- Inhalation: Dust may cause respiratory tract irritation.

SECTION 3: COMPOSITION

Chemical Name: Sodium Hexametaphosphate

Formula: (NaPO₃)₆ | **Molecular Weight:** 611.77

Concentration: ≥ 68.0% (as P₂O₅)

SECTION 4: FIRST AID MEASURES

Inhalation: Remove to fresh air. If symptoms persist, seek medical attention.

Skin Contact: Wash with soap and water. Remove contaminated clothing.

Eye Contact: Flush with plenty of water for 15 minutes. Consult a physician if irritation occurs.

Ingestion: Rinse mouth with water. Do not induce vomiting. Seek medical advice if large amounts swallowed.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid dust formation. Wear appropriate personal protective equipment.

Storage: Store in a cool, dry, well-ventilated area.

CRITICAL NOTE: Product is **highly hygroscopic**. Exposure to moist air will cause it to hydrate and hydrolyze into orthophosphates. Keep containers tightly sealed.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White crystalline powder / Glassy plates.

pH: 5.8 - 7.3 (1% solution).

DSC Trading Co., Ltd. | Leading Supplier of High-Purity SHMP

Melting Point: 628°C (1162.4°F).

Solubility: Highly soluble in water; insoluble in organic solvents.

Specific Gravity: 2.484 g/cm³.

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under recommended storage conditions.

Incompatibility: Strong oxidizing agents, strong acids.

Decomposition Products: Phosphorus oxides, Sodium oxides.

SECTION 14: TRANSPORT INFORMATION

DOT/IMDG/IATA: Not regulated as a dangerous good for transport.

Ensure package integrity during transit to avoid moisture contamination.