

Revision Date: 15.11.2018

Section 1 - Chemical Product and Company Identification

1.1Product Identifier

Product name: Sodium Hexameta Phosphate

CAS No: 68915-31-1

1.2Synonyms: Hexametaphosphate, sdodium salt; SHMP; Metaphosphoric acid, hexasodium;

Sodium polyphates, glassy

1.3Company Information

Rolfes Chemicals

A Division of Rolfes Group of Companies

Cnr Brammer and Strachan, Industries East

Germiston

Information (Product safety) Telephone: +27 11 873 0157 Fax: +27 11 8738480

1.4 Emergency Telephone Number South Africa +27 (0)86 044 44 11

Section 2 - Composition/Information on Ingrédients

Hazard Classes Hazard Categories

Skin irritation
Eye irritation
Specific target organ toxicity single exposure
Acute toxicity, oral

Category 3 Category 2B Category 3

Category 5

Signal Word: Warning



Hazard Statements

PHYSICAL HAZARDS: None



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HEALTH HAZARDS: H303 May be

harmful if swallowed H315 Causes mild skin irritation. H319

Causes eye irritation

H335 May cause respiratory irritation

ENVIRONMENTAL HAZARDS: None

PRECAUTIONARY STATEMENTS: P102: Keep out of reach of children

P202: Do not handle until all safety precautions have been

read and understood P261: Avoid breathing dust

P280: Wear protective gloves, clothing and eye protection

RESPONSE STATEMENTS: P301 +310+ P331: IF SWALLOWED: USA Immediately

call the

National POISON CENTER at 800-222-1222. DO

NOT induce vomiting

P303+P361+353: IF ON SKIN Take off immediately all

contaminated clothing. Rinse skin with water

P304+340: IF INHALED, Remove to fresh air and keep

comfortable for breathing

P305+P351: IF IN EYES rinse cautiously with water for at

least 15 minutes

P306+P361: IF ON CLOTHING, Take off contaminated

clothing

STORAGE STATEMENTS: P403: None

DISPOSAL STATEMENTS: P501: Dispose of content and/or container in

accordance with local, regional, national or

international regulations



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Section 3 - Hazards Identification

CAS COMPONENT PERCENT

68915-31-1 SODIUM HEXAMETAPHOSPHATE >90

This product, commonly called "sodium hexametaphosphate" or "sodium polyphosphates glassy", is a mixture of many polymers for which the CAS number is 68915-31-1, the chemical formula is $Na(x+2) P_X O(3x+1)$, where x=6 to 21. An alternate CAS number 10124- 56-8 is specific for sodium hexametaphosphate, Na6O18P6, molecular weight 611.77. Synonyms: SHMP, Glassy sodium, Vitrafos, Metafos, Sodium polyphosphate, Metaphosphoric acid, Sodium metaphosphate

Section 4 - First Aid Measures

Emergency Overview

Sodium Hexametaphosphate is a glassy, white solid found in plate, granular or powder forms. Dusts of this product may cause mild irritation to the eyes, skin, nose and throat. Sodium Hexametaphosphate may react violently with strong oxidizers. Product is not combustible. Use extinguishing media appropriate for surrounding fire. Thermal decomposition of this product produces irritating vapors and toxic gases (e.g. phosphorous oxides and sodium oxide). Emergency responders should wear proper personal protective equipment for the releases to which they are responding.

Hazard Statements

CAUTION! MAY CAUSE RESPIRATORY TRACT IRRITATION. MAY CAUSE EYE AND SKIN IRRITATION. Avoid contact with eyes and skin. Avoid breathing dusts. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

Potential Health Effects: Eyes

Exposure to particulates or solution of this product may cause mild irritation of the eyes with symptoms such as stinging, tearing, redness and pain.

Potential Health Effects: Skin

Alkalies penetrate skin slowly. The extent of damage therefore depends on duration of contact. Chronic poisoning (from skin contact), may occur. Repeated skin contact may lead to dermatitis (red, cracked skin). Symptoms are generally alleviated when exposure ends.

Section 5 - Fire Fighting Measures



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Suitable Extinguishing Media Product does not burn. Use appropriate extinguishing media for material that is

supplying the fuel to the fire.

Unsuitable Extinguishing Media Not Available

Specific Hazards Arising From the

Chemical

Oxides of sodium and phosphorous.

Special Protective Equipment and Wear NIOSH-approved self-contained breathing apparatus and protective

clothing.

Precautions for Fire-Fighters

Further Information Not Available

Section 6 - Accidental Release Measures

Containment Procedures

Stop the flow of material, if this can be done without risk. Contain the discharged material. If sweeping of a contaminated area is necessary use a dust suppressant agent, which does not react with product

Clean- Up Procedures

Small releases can be cleaned-up wearing gloves, googles and suitable body protection. In case of a large spill, clear the affected area, protect people, and respond with trained personnel. Do not allow the spilled product to enter public drainage system or open water courses. Place all spill residues in an appropriate container and seal. Thoroughly wash the area after a spill or leak clean up. Prevent spill rinsate from contamination of storm drain, sewers, soil or groundwater.

Evacuation Procedures

Evacuate the area promptly and keep upwind of the spilled material. Isolate the spill area to prevent people from entering. In case of large spills, follow all facility emergency response procedures.

Special Procedures

Remove solid clothing and launder before reuse. Avoid all skin contact with the spilled material. Have emergency equipment readily available.

Section 7 - Handling and Storage

Handling:

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.



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Avoid ingestion and inhalation.

Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash

facility and a safety shower. Use adequate ventilation to keep airborne

concentrations low.

Exposure Limits CAS# 68915-31-1: ACGIH TLV 10 mg/m3 TWA, 8h (inhalable)

ACGIH TLV 3 mg/m3 TWA, 8h (respirable)
OSHA PEL 15 mg/m3 TWA, 8h (total dust)
OSHA PEL 5 mg/m3 TWA, 8h (respirable)

Personal Protective Equipment

Eyes: Wear safety glasses.

Skin: Wear chemical resistant gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European

Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Protective Clothing Pictograms:









Section 9 - Physical and Chemical Properties

Physical State: Powder

Color: White

Odor: None

pH: 7 (1% solution in water)

Vapor Pressure: Not applicable

Viscosity: Not applicable

Boiling Point: 1500°C @ 760 mmHg



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Freezing/Melting Point: 550°C

Autoignition Temperature: Not applicable

Flash Point: Not applicable

Explosion Limits: Lower: Not applicable

Explosion Limits: Upper: Not applicable

Decomposition

Temperature: Not available

Solubility in water: Partially soluble <150 g/l

Specific Gravity/Density: 0.850 g/cm3 packed

Molecular Formula: Na2O.P2O5

Molecular Weight: 611.52

Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Excessive moisture. The material is hygroscopic.

Incompatibilities with

Other Materials:

Oxidizing agents.

Hazardous Decomposition

Products:

Oxides of phosphorus and sodium may occur.

Hazardous Polymerization: Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 68915-31-1

LD50/LC50: Acute oral toxicity, rat: 3 035 mg/kg

Acute dermal toxicity, rabbit: >7940 mg/kg

Carcinogenicity: Not classified based on available information.



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Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Other: Do not empty into drains.

Ecotoxicity: CAS# 68915-31-1

Toxicity to fish: LC50 (Rainbow trout): >= 1,000 mg/l Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 485

mg/l Exposure time: 48 h

LC 50 (Medina & Mysid shrimp): > 1,000 mg/l Exposure time: 96h

Persistence and

Inorganic compounds in contact with the soil, sub-surface or surface waters may be taken up by

plants

Degradability: and utilized as essential nutrients. Phosphates may also form precipitates, usually with calcium or

magnesium. The resultant compounds are insoluble in water and become a part of the soil or

sediment.

The term biodegradability, as such, is not applicable to inorganic compounds

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA	IMO	RID/ADR
SHIPPING NAME	None	None	None
HAZARD CLASS	None	None	None
UN NO.	None	None	None
PACKING GROUP	None	None	None



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Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: None Hazard Phrases: None

Risk Phrases: R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases: S 26 In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice

S 36 Wear suitable protective clothing.

WGK (Water Danger/Protection): Not controlled

Canada: CAS# 6815-31-1 is listed on Canada's DSL List

US Federal:

TSCA: CAS# 68915-31-1 is listed on the TSCA Inventory.

Section 16 - Other Information

All reasonable efforts were exercised to compile this SDS in accordance with GHS SANS 10234. The SDS provides information regarding the health, safety and environmental hazards, at the date of issue, to facilitate the safe receipt, use and handling of the product in the workplace. Rolfes Chemicals cannot anticipate or control all conditions under which the product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which the product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place as regards health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of the product. Although all reasonable efforts were exercised in the compilation of this SDS, Rolfes Chemicals does not expressly warrant the accuracy or assume any liability for the incompleteness of the information contained herein or any advice given. The product is sold and risk passes in accordance with the specific terms and conditions of sale.