

### 1. IDENTIFICATION

**Product Name Sodium Hexametaphosphate Solution** 

**Other Names** Glassy Solution; SHMP 20%; Sodium polyphosphate [CAS#68915-31-1]; Sodium Polyphosphate Solution

Uses Sequestrant and preservative adjunct for use in food/dairy; Water treatment; Sequestrant for alkali metals; Corrosion

control; Scale control; Softening; Red and black water control.

**Chemical Family** No Data Available **Chemical Formula** Unspecified

**Chemical Name** Sodium Hexametaphosphate Solution 20% (w/v)

**Product Description** No Data Available

## Contact Details of the Supplier of this Safety Data Sheet

| Organisation            | Location   | Telephone       |
|-------------------------|--|-----------------|
| Redox Ltd               | 2 Swettenham Road<br>Minto NSW 2566<br>Australia   | +61-2-97333000  |
| Redox Ltd               | 11 Mayo Road<br>Wiri Auckland 2104<br>New Zealand  | +64-9-2506222   |
| Redox Inc.              | 3960 Paramount Boulevard<br>Suite 107<br>Lakewood CA 90712<br>USA                                    | +1-424-675-3200 |
| Redox Chemicals Sdn Bhd | Level 2, No. 8, Jalan Sapir 33/7<br>Seksyen 33, Shah Alam Premier Industrial Park<br>40400 Shah Alam | +60-3-5614-2111 |

## **Emergency Contact Details**

For emergencies only; DO NOT contact these companies for general product advice.

Sengalor, Malaysia

| Organisation               | Location     | Telephone                                  |
|----------------------------|--------------|--|
| Poisons Information Centre | Westmead NSW | 1800-251525<br>131126                      |
| Chemcall                   | Australia    | 1800-127406<br>+64-4-9179888               |
| Chemcall                   | Malaysia     | +64-4-9179888                              |
| Chemcall                   | New Zealand  | 0800-243622<br>+64-4-9179888               |
| National Poisons Centre    | New Zealand  | 0800-764766                                |
| CHEMTREC                   | USA & Canada | 1-800-424-9300 CN723420<br>+1-703-527-3887 |

### 2. HAZARD IDENTIFICATION

Poisons Schedule (Aust)

Corporate Office Sydney
Locked Bag 15 Minto NSW 2566 Australia
2 Swettenham Road Minto NSW 2566 Australia All Deliveries: 4 Holmes Road Minto NSW 2566 Australia Phone E-mail ABN

Not Scheduled

+61 2 9733 3000 +61 2 9733 3111 svdnev@redox.com www.redox.com 92 000 762 345

Adelaide Brisbane Melbourne Perth Sydney

New Zealand Auckland Hawke's Bay London

Malaysia Kuala Lumpur Los Angeles Oakland Mexico



#### **Globally Harmonised System**

**Hazard Classification** NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of

Chemicals (GHS)

Signal Word None

### **National Transport Commission (Australia)**

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

**Dangerous Goods Classification** NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients

| Chemical Entity          | Formula           | CAS Number | Proportion |
|--------------------------|-------------------|------------|------------|
| Sodium hexametaphosphate | No Data Available | 10124-56-8 | 18 - 22 %  |
| Water                    | H20               | 7732-18-5  | Balance %  |

#### 4. FIRST AID MEASURES

## Description of necessary measures according to routes of exposure

**Swallowed** IF SWALLOWED: Rinse mouth, then drink 2 - 3 glasses of water. Do not induce vomiting unless directed to do so by

> medical personnel. Get medical advice/attention if you feel unwell. If vomiting occurs spontaneously, lean patient forward or place on left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Never give

anything by mouth to an unconscious person.

IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting Eye

the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye

irritation persists, get medical advice/attention.

Skin IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation

occurs, get medical advice/attention.

Inhaled IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms

persist, get medical advice/attention. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is

difficult.

**Advice to Doctor** All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given

> to the possibility that overexposure to materials other than this product may have occurred. Ensure that attending medical personnel are aware of the identity and nature of the product(s) involved, and take precautions to protect

themselves.

**Exposure** 

Medical Conditions Aggravated by Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis.

Skin contact may aggravate existing skin disease.

#### 5. FIRE FIGHTING MEASURES

General Measures If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

Dike fire control water for later disposal.

Flammability Conditions Non-combustible.

Extinguishing Media If material is involved in a fire, use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction - Do not scatter

spilled material with high pressure water streams. Use extinguishing media suitable for surrounding fire.

Fire and Explosion Hazard Containers may explode when heated.

**Hazardous Products of** 

Combustion

Decomposition may produce irritating and or toxic gases, including oxides of Phosphorus, oxides of Sodium.

Special Fire Fighting Instructions Contain runoff from fire control or dilution water - Runoff may cause pollution.

Personal Protective Equipment Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only

provide limited protection.

Flash Point
No Data Available
Lower Explosion Limit
No Data Available
Upper Explosion Limit
No Data Available
Auto Ignition Temperature
No Data Available
Hazchem Code
No Data Available

#### **6. ACCIDENTAL RELEASE MEASURES**

General Response Procedure Ensure adequate ventilation. Do not touch or walk through spilled material. Avoid breathing vapours and contact with

eyes, skin and clothing.

Clean Up Procedures Pick up with sand or other non-combustible absorbent material and place into containers for later disposal (see SECTION

13).

**Containment** Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Dike far ahead of large spill for later

disposal.

**Decontamination** Flush residual spill area with large amounts of water.

**Environmental Precautionary** 

Measures

Prevent entry into drains and waterways.

**Evacuation Criteria** Spill or leak area should be isolated immediately. Keep unauthorised personnel away.

Personal Precautionary Measures Use personal protective equipment as required (see SECTION 8).

## 7. HANDLING AND STORAGE

**Handling** Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure

adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing mist/vapours/spray and contact with eyes, skin and clothing. Do not ingest. Use personal protective equipment as

required (see SECTION 8).

Storage Store in a cool, dry and well-ventilated place, out of direct sunlight. Protect from freezing. Keep container tightly closed

when not in use. Keep away from incompatible materials (see SECTION 10).

**Container** Keep in the original container.

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General The product does not contain any relevant quantities of materials with critical values that have to be monitored at the

workplace.

**Exposure Limits** No Data Available

**Biological Limits** No information available.

**Engineering Measures** 

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.

- Respiratory protection: In case of inadequate ventilation, wear respiratory protection (refer to AS/NZS 1715 & 1716).

- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Wear safety glasses with side-shields; Goggles recommended during refilling.

- Hand protection: Handle with gloves. The glove material has to be impermeable and resistant to the product/substance/preparation.

 $- Skin/body\ protection:\ We ar\ appropriate\ personal\ protective\ clothing\ to\ avoid\ skin\ contact.\ We ar\ long-sleeved\ clothing$ 

and/or protective coveralls.

**Special Hazards Precaustions** 

**Personal Protection Equipment** 

No information available.

**Work Hygienic Practices** 

Do not eat, drink or smoke when using this product. Wash hands and exposed skin thoroughly after handling. Take off

contaminated clothing and wash it before reuse.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** Liquid **Appearance** Clear liquid Odour Odourless Colour Colourless 4.8 - 5.2 (neat) pН **Vapour Pressure** No Data Available **Relative Vapour Density** No Data Available **Boiling Point** No Data Available **Melting Point** No Data Available **Freezing Point** No Data Available Solubility No Data Available **Specific Gravity** 1.130 - 1.150 **Flash Point** No Data Available **Auto Ignition Temp** No Data Available **Evaporation Rate** No Data Available **Bulk Density** No Data Available **Corrosion Rate** No Data Available **Decomposition Temperature** No Data Available Density 1.130 - 1.150 g/ml **Specific Heat** No Data Available **Molecular Weight** No Data Available **Net Propellant Weight** No Data Available **Octanol Water Coefficient** No Data Available **Particle Size** No Data Available **Partition Coefficient** No Data Available **Saturated Vapour Concentration** No Data Available Vapour Temperature No Data Available Viscosity No Data Available **Volatile Percent** No Data Available **VOC Volume** No Data Available

**Additional Characteristics** Solid content: 18 - 22 % (w/v).

Potential for Dust Explosion Not applicable.

Fast or Intensely Burning

Characteristics

No information available.

Flame Propagation or Burning

**Rate of Solid Materials** 

No information available.

Non-Flammables That Could Contribute Unusual Hazards to a No information available.

Fire

Properties That May Initiate or Contribute to Fire Intensity

Non-combustible.

**Reactions That Release Gases or** 

**Vapours** 

Decomposition may produce irritating and or toxic gases, including oxides of Phosphorus, oxides of Sodium.

Release of Invisible Flammable

Vapours and Gases

No information available.

### 10. STABILITY AND REACTIVITY

**General Information** No dangerous reaction known under conditions of normal use.

**Chemical Stability** This material is stable under normal handling and storage conditions.

Conditions to Avoid Protect from freezing.

Materials to Avoid No information available.

**Hazardous Decomposition** 

**Products** 

Decomposition may produce irritating and or toxic gases, including oxides of Phosphorus, oxides of Sodium.

**Hazardous Polymerisation** Hazardous polymerisation will not occur.

## 11. TOXICOLOGICAL INFORMATION

**General Information** Information on possible routes of exposure:

- Ingestion: Ingestion of large quantities may cause nausea, vomiting, diarrhoea, abdominal cramps, headache,

decreased blood pressure, decreased heart rate, coma.

- Eye contact: May cause mild irritation.

- Skin contact: May cause slight transient irritation on prolonged contact.

- Inhalation: Low acute inhalation toxicity.

Chronic effects: This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or

suspected human carcinogens.

Acute

**Ingestion** Acute toxicity (Oral):

- LD50, Rat: 3,053 mg/kg (Sodium polyphosphates).

Carcinogen Category None

## 12. ECOLOGICAL INFORMATION

 Ecotoxicity
 No information available.

 Persistence/Degradability
 No information available.

 Mobility
 No information available.

**Environmental Fate** Prevent entry into drains and waterways.

Bioaccumulation Potential No information available.

Environmental Impact No Data Available

### 13. DISPOSAL CONSIDERATIONS

**General Information** Dispose of contents/container in accordance with local/regional/national regulations.

Special Precautions for Land Fill Processing, use, or contamination of this product may change the waste management options. State and local disposal

regulations may differ from Federal disposal regulations.

### 14. TRANSPORT INFORMATION

# Land Transport (Australia)

ADG Code

Proper Shipping Name Sodium Hexametaphosphate Solution

Class No Data Available
Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

**Comments** NON-DANGEROUS GOODS: Not regulated for LAND transport.

# Land Transport (Malaysia)

ADR Code

**Proper Shipping Name** Sodium Hexametaphosphate Solution

Class No Data Available
Subsidiary Risk(s) No Data Available

No Data Available

UN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

**Comments** NON-DANGEROUS GOODS: Not regulated for LAND transport.

# Land Transport (New Zealand)

NZS5433

**Proper Shipping Name** Sodium Hexametaphosphate Solution

Class No Data Available
Subsidiary Risk(s) No Data Available

No Data Available

UN NumberNo Data AvailableHazchemNo Data AvailablePack GroupNo Data AvailableSpecial ProvisionNo Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

## **Land Transport (United States of America)**

**US DOT** 

Proper Shipping Name Sodium hexametaphosphate Solution

Class No Data Available
Subsidiary Risk(s) No Data Available

No Data Available

UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

Sea Transport

**IMDG** Code

Proper Shipping Name Sodium Hexametaphosphate Solution

Class No Data Available
Subsidiary Risk(s) No Data Available
UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available
EMS No Data Available

Marine Pollutant No

Comments NON-DANGEROUS GOODS: Not regulated for SEA transport.

**Air Transport** 

IATA DGR

Proper Shipping Name Sodium Hexametaphosphate Solution

Class No Data Available
Subsidiary Risk(s) No Data Available
UN Number No Data Available
Hazchem No Data Available
Pack Group No Data Available
Special Provision No Data Available

**Comments** NON-DANGEROUS GOODS: Not regulated for AIR transport.

## **National Transport Commission (Australia)**

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

Dangerous Goods Classification NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods

by Road & Rail (ADG Code)

### 15. REGULATORY INFORMATION

General Information No Data Available

Poisons Schedule (Aust) Not Scheduled

### **Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code Not Assessed

# National/Regional Inventories

Australia (AIIC) Listed

Canada (DSL) Not Determined

Canada (NDSL) Not Determined

China (IECSC) Not Determined

Europe (EINECS) Not Determined

Europe (REACh) Not Determined

Japan (ENCS/METI) Not Determined

Korea (KECI) Not Determined

Malaysia (EHS Register) Not Determined

New Zealand (NZIoC) Listed

Philippines (PICCS) Not Determined

Switzerland (Giftliste 1) Not Determined

Switzerland (Inventory of Notified

Substances)

Not Determined

Taiwan (NCSR) Not Determined

USA (TSCA) Not Determined

## **16. OTHER INFORMATION**

**Related Product Codes** SOHEXA2020, SOHEXF3160, SOHEXF3165

Revision 4

**AICS** Australian Inventory of Chemical Substances

atm Atmosphere

**CAS** Chemical Abstracts Service (Registry Number)

cm² Square CentimetresCO2 Carbon Dioxide

**COD** Chemical Oxygen Demand **deg C (°C)** Degrees Celcius

EPA (New Zealand) Environmental Protection Authority of New Zealand

deg F (°F) Degrees Farenheit

**g** Grams

g/cm3 Grams per Cubic Centimetre

g/I Grams per Litre

**HSNO** Hazardous Substance and New Organism

**IDLH** Immediately Dangerous to Life and Health

immiscible Liquids are insoluable in each other.

inHg Inch of Mercury

inH20 Inch of Water

K Kelvin

kg Kilogram

kg/m³ Kilograms per Cubic Metre

**Ib** Pound

**LC50** LC stands for lethal concentration. LC50 is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

**LD50** LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

Itr or L Litre

m<sup>3</sup> Cubic Metre

mbar Millibar

mg Milligram

mg/24H Milligrams per 24 Hours

mg/kg Milligrams per Kilogram

mg/m³ Milligrams per Cubic Metre

Misc or Miscible Liquids form one homogeneous liquid phase regardless of the amount of either component present.

mm Millimetre

mmH20 Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

**NIOSH** National Institute for Occupational Safety and Health

NOHSC National Occupational Heath and Safety Commission

**OECD** Organisation for Economic Co-operation and Development

Oz Ounce

**PEL** Permissible Exposure Limit

Pa Pascal

ppb Parts per Billion

ppm Parts per Million

ppm/2h Parts per Million per 2 Hours

ppm/6h Parts per Million per 6 Hours

psi Pounds per Square Inch

**R** Rankine

**RCP** Reciprocal Calculation Procedure

**STEL** Short Term Exposure Limit

TLV Threshold Limit Value

tne Tonne

**TWA** Time Weighted Average

ug/24H Micrograms per 24 Hours

**UN** United Nations

wt Weight