



SALES & SERVICES

**HEAD OFFICE**

38 May Holman Drive

Bassendean WA 6054

T: (61 8) 6270 4500

F: (61 8) 6270 4544

E: [admin@agentsales.com.au](mailto:admin@agentsales.com.au)

## Material Safety Data Sheet

### 1. IDENTIFICATION OF THE PRODUCT AND THE SUPPLIER

**1.1 Product identifiers**

Product name : SODIUM HEXAMETAPHOSPHATE

**1.2 Other means of identification**

Calgon; HMP; Metaphosphoric Acid; Hexasodium Salt

**1.3 Recommended use of the product and restrictions on use**

Water softener, detergent ingredient, deflocculating agent in oil well drilling muds, sequestering agent textile processes, sequestrant for alkali metals, corrosion control, scale control

**1.4 Details of supplier of the safety data sheet**

Company : AGent Sales & Services Pty Ltd

Street address : 38 May Holman Drive, Bassendean, Western Australia 6054

Telephone : (+61 8) 6270 4500

Fax : (+61 8) 6270 4544

**1.5 Emergency telephone number**

Telephone : (+61 8) 6270 4500

### 2. HAZARDS IDENTIFICATION

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

**2.1 GHS Classification**

NOT hazardous according to the criteria of the Globally Harmonised System of Classification & Labelling of Chemicals (GHS)

**2.2 GHS Label elements, including precautionary statements**

Pictogram None

Signal word None

Hazard statement(s) None

Precautionary statement(s) None

Other hazards None

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS Number	Classification	Concentration (%)
Sodium Hexametaphosphate	10124-56-8		> 99.0

### 4. FIRST AID MEASURES

**4.1 Description of First Aid measures**

**General advice**

Contact the Poisons Information Centre (Phone: Australia 131 126; New Zealand 0800 764 766) or consult a doctor/physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If inhaled in, move person into fresh air. If not breathing, give artificial respiration. If rapid recovery does not occur, seek medical advice.

**In case of skin contact**

Remove contaminated clothing and wash affected areas with soap and running water for at least 15 minutes. Launder clothing before reuse. If skin irritation occurs, seek medical advice.

**In case of eye contact**

In case of eye contact, check for and remove any contact lenses. Immediately rinse thoroughly with plenty of running water for at least 15 minutes, keeping eyelids open. If eye irritation persists, seek medical advice/attention.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in Section 2.2 and/or Section 11.

**4.3 Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**4.4 First Aid facilities**

Eye wash facilities and safety shower should be available.

**5. FIRE FIGHTING MEASURES**

**5.1 Suitable extinguishing media**

Not combustible. Use extinguishing media suitable for surrounding fire.

**5.2 Special hazards arising from the chemical**

Sodium and phosphorus oxides may form when heated to decomposition.

**5.3 Special protective equipment and precautions for fire fighters**

Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

**5.4 Hazchem code**

None allocated

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Do not inhale product dust/fumes.  
For personal protection see section 8.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. If contamination of sewers or waterways has occurred, advise local emergency services. Observe all local and national regulations.

**6.3 Methods and materials for containment and cleaning up**

Slippery when spilt. Avoid accidents, clean up immediately. Use clean, non-sparking tools and equipment. Contain and sweep/shovel up spills with dust binding material or use an industrial vacuum cleaner. Transfer to a suitable, labelled container and dispose of promptly. Vacuuming or wet sweeping may be used to avoid dust dispersal. Small amounts of residue may be flushed to sewer with plenty of water.

**7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed. Avoid contact with skin and eyes. Avoid inhalation of vapour, mist and aerosol. Observe good personal hygiene, including washing hands before eating.

For precautions see Section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in a cool, dry, well ventilated place. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### 8.1 Control parameters

Not value assigned for this specific material by SWA. However, the exposure standard for dust not otherwise specified is 10 mg/m<sup>3</sup> (for inspirable dust) and 3mg/m<sup>3</sup> (for respirable dust).

#### Biological Limits

None allocated for this product.

### 8.2 Exposure controls

#### Appropriate engineering controls

General industrial hygiene practice.

#### Personal protective equipment (PPE)

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods and environmental factors.

#### Eye/face protection

Use chemical safety goggles. See Australian Standards (AS/NZS 1336 & 1337).

#### Skin protection

Wear protective gloves and clean body-covering clothing appropriate for the risk of exposure. See Australian Standards (AS 2161 and AS/NZS 2210).

Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands.

#### Respiratory protection

Where risk assessment shows inhalation risk exists, wear an approved NIOSH type N95 or type P1 particulate filter respirator. See Australian Standards (AS/NZS 1715 & 1716).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Form : Powder, granule or pellets Colour : White
<b>Odour:</b>	No data available
<b>Odour Threshold:</b>	No data available
<b>pH:</b>	5.8 – 7.3
<b>Melting Point (°C):</b>	550
<b>Boiling Point/Range (°C):</b>	1500
<b>Decomposition Temperature:</b>	No data available
<b>Evaporation Rate:</b>	No data available
<b>Flash Point:</b>	Not applicable
<b>Flammability Limits:</b>	Not applicable
<b>Specific Gravity:</b>	1.25
<b>Vapour Density (air=1):</b>	No data available
<b>Vapour Pressure:</b>	No data available
<b>% Volatiles:</b>	No data available
<b>Solubility in water:</b>	Miscible in water

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

Product is stable under normal conditions of use, storage and temperature

### 10.3 Possibility of hazardous reactions

Polymerisation is not expected to occur.

### 10.4 Conditions to avoid

Sources of ignition. Direct sunlight. Extremely high or low temperatures

### 10.5 Incompatible materials

Incompatible with strong oxidising agents

### 10.6 Hazardous decomposition products

Oxides of sodium and phosphorus.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

Oral LD<sub>50</sub> Ingestion (rat, female) : > 2,000 mg/kg (fixed dose method)

Oral LD<sub>50</sub> Inhalation (rat, male & female) : > 3.6 mg/L/4h (OECD Test Guideline 403)

#### Skin corrosion/irritation

Skin – rabbit : No skin irritation / 4h (OECD Test Guideline 404)

#### Serious eye damage/eye irritation

Eyes – rabbit : No eye irritation (OECD Test Guideline 405)

#### Respiratory or skin sensitisation

Skin - mouse : Does not cause skin sensitisation (OECD Test Guideline 429)

#### Germ cell mutagenicity

No data available

#### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### Reproductive toxicity

No data available

#### Specific target organ toxicity (STOT) - single exposure

No data available

#### Specific target organ toxicity (STOT) - repeated exposure

No data available

#### Aspiration hazard

No data available

#### Health Effects

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

**Eye contact :** May cause mild irritation, redness and pain.

**Skin contact :** May cause mild irritation to skin.

**Ingestion :** In large quantities may irritate the gastrointestinal tract causing nausea, vomiting, diarrhoea and abdominal discomfort.

**Inhalation :** Exposure to dust may cause respiratory irritation.

### 11.2 Information on possible routes of exposure

The substance can be absorbed into the body by ingestion, inhalation of its dust, vapour, mist or aerosol, eye contact and skin contact.

### 11.3 Additional Information

RTECS: OY3675000

## 12. ECOLOGICAL INFORMATION

### 12.1 Ecotoxicity

Avoid contaminating waterways.

#### Toxicity to fish:

Semi-static test LC50 (Oncorhynchus mykiss, rainbow trout) : > 100 mg/L , 96h (OECD Test Guideline 203)

**Toxicity to daphnia and other aquatic invertebrates**

Static test EC50 (Daphnia magna, water flea) : > 485 mg/L, 48h

**Toxicity to algae**

Growth inhibition EC50 (Desmodesmus subspicatus, green algae) : > 100 mg/L, 72h (OECD Test Guideline 201)

**Toxicity to bacteria**

Respiration inhibition EC50 (Sludge Treatment) : > 1,000 mg/L, 3h (OECD Test Guideline 209).

**12.2 Persistence and degradability**

No data available.

**12.3 Bioaccumulative potential**

No data available.

**12.4 Mobility in soil**

No data available.

**12.5 Other adverse effects**

No data available.

**13. DISPOSAL CONSIDERATIONS**

**13.1 Disposal methods and containers**

Ensure waste disposal conforms to relevant local, state and federal authority waste disposal regulations

**14. TRANSPORT INFORMATION**

Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail; NON-DANGEROUS GOODS.

Not classified as a Dangerous Goods by the criteria of the IMDG Code for transport by sea

Not classified as a Dangerous Goods by the criteria of the IATA Code for transport by air

<b>14.1 UN number</b>	None allocated
<b>14.2 Proper shipping name</b>	SODIUM HEXAMETAPHOSPHATE
<b>14.3 Transport hazard class</b>	None allocated
<b>14.4 Packing group</b>	None allocated
<b>14.5 Environmental hazards</b>	No
<b>14.6 Special precautions for users</b>	None allocated
<b>14.7 Hazchem code</b>	None allocated
<b>14.8 Dangerous goods initial emergency response guide (SAA/SNZ HB76:2010)</b>	None allocated

**15. REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations**

**Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)**

None allocated

**Carcinogen classification under WHS Regulations 2011, Schedule 10**

Not listed

**Notification status**

**AICS** On the inventory, or in compliance with the inventory.

**SECTION 16 OTHER INFORMATION**

**Key / legend to abbreviations and acronyms used in the MSDS**

ADG	Australian Dangerous Goods
ASCC	Australian Safety and Compensation Council
DEC	Department of Environment and Conservation

GHS	Globally Harmonised System of Classification & Labelling of Chemicals
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
NOHSC	National Occupational Health and Safety Commission
OECD	Organisation for Economic Co-Operation and Development
SUSDP	Standard for the Uniform Scheduling of Drugs and Poisons
RTECS	Registry of Toxic Effects of Chemical Substances.
SWA	Safe Work Australia
EC <sub>50</sub>	The concentration which induces a response halfway between the baseline and maximum after a specified exposure time.
LD <sub>50</sub>	Lethal dose 50. The single dose of a substance that causes the death of 50% of an animal population from exposure to the substance by any route other than inhalation
LC <sub>50</sub>	Lethal concentration that kills 50% of an animal population within a specified time
pH	Relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline

**Full text of H-Statements referred to under sections 2 and 3.**

H319 Causes serious eye irritation.

**Literature references**

“Workplace Exposure Standards for Airborne Contaminants, December 2011” by SWA Work Health and Safety Regulations 2011

“Registry of Toxic Effects of Chemical Substances”. Ed. D. Sweet, US Dept. of Health & Human Services: Cincinnati, 2012.

**Reason(s) for Issue:**

Alignment to GHS requirements

**Disclaimer**

AGent Sales & Services Pty Ltd provides the information contained herein in good faith but makes no representation as to its' comprehensiveness or accuracy. A properly trained person using this product intends this document only as a guide to the appropriate precautionary handling of the material. Individuals receiving the information must exercise their independent judgement in determining its appropriateness for a particular purpose. AGent Sales & Services Pty Ltd makes no representations or warranties, either express or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, AGent Sales & Services Pty Ltd will not be responsible for damages resulting from use of or reliance upon this information.