CANNING
POOL & PUMP CENTRE

HEAD OFFICE
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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, deflocculanting 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 safetv data sheet

Company Canning Pool & Pump Centre

Street address Unit 4 / 213 Railway Avenue Kelmscott WA 6111

Telephone (08) 9390 7040

:

1.5 Emergency telephone number

Telephone 0410 467 404

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 Hexametaphophate	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^3 (for inspirable dust) and 3mg/m^3 (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

Appearance:	Form : Powder, granule or pellets
	Colour : White
Odour:	No data available
Odour Threshold:	No data available
pH:	5.8 – 7.3
Melting Point (°C):	550
Boiling Point/Range (°C):	1500
Decomposition Temperature:	No data available
Evaporation Rate:	No data available
Flash Point:	Not applicable
Flammability Limits:	Not applicable
Specific Gravity:	1.25
Vapour Density (air=1):	No data available
Vapour Pressure:	No data available
% Volatiles:	No data available
Solubility in water:	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_{50} Ingestion (rat, female) : > 2,000 mg/kg (fixed dose method)
Oral LD_{50} 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. ECOGICAL 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

14.1	**UN number**	None allocated
14.2	**Proper shipping name**	SODIUM HEXAMETAPHOSPHATE
14.3	**Transport hazard class**	None allocated
14.4	**Packing group**	None allocated
14.5	**Environmental hazards**	No
14.6	**Special precautions for users**	None allocated
14.7	**Hazchem code**	None allocated
14.8	**Dangerous goods initial emergency response guide (SAA/SNZ HB76:2010)**	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_{50}	The concentration which induces a response halfway between the baseline and maximum after a specified exposure time.
LD_{50}	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_{50}	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: Cincinatti, 2012.

Reason(s) for Issue:

Alignment to GHS requirements

Disclaimer