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Infosafe No™ 1CH6L Issue Date : August 2014 RE-ISSUED by CHEMSUPP

Product Name: SODIUM MOLYBDATE Dihydrate

Not classified as hazardous

1. Identification

**GHS Product** 

SODIUM MOLYBDATE Dihydrate

Identifier

Company Name CHEM-SUPPLY PTY LTD (ABN 19 008 264 211)

Address 38 - 50 Bedford Street GILLMAN

SA 5013 Australia

Telephone/Fax Number Tel: (08) 8440-2000 Fax: (08) 8440-2001

Recommended use of the chemical and restrictions on use

Reagent in analytical chemistry, paint pigment, production of molybdated toners and lakes, metals finishing, brightening agent for zinc plating, corrosion inhibitor, catalyst in dye and pigment production,

additive for fertilizers and feeds, micronutrient and laboratory reagent.

Other Names <u>Name</u> <u>Product Code</u>

SODIUM MOLYBDATE Dihydrate LR SL095 SODIUM MOLYBDATE Dihydrate TG ST095

Sodium molybdate (VI) dihydrate, Molybdic acid sodium dihydrate

SODIUM MOLYBDATE Dihydrate AR

SA095

Other Information

EMERGENCY CONTACT NUMBER: +61 08 8440 2000 Business hours: 8:30am to 5:00pm, Monday to Friday.

Chem-Supply Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Chem-Supply Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Chem-Supply Pty Ltd is limited to the replacement of supply of equivalent goods

or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification of the

Not classified as hazardous according to the Approved Criteria for Classifying Hazardous Substances

[NOHSC:1008(2004] 3rd Edition, Safe Work Australia.

substance/mixture

Not classified as dangerous goods according to the Australian Dangerous Goods Code (ADG).

Signal Word (s) None.

3. Composition/information on ingredients

Chemical Solid

Characterization

Ingredients <u>Name</u> <u>CAS</u> <u>Proportion</u> <u>Hazard Symbol</u> <u>Risk Phrase</u>

Sodium Molybdate Dihydrate 10102-40-6 100 %

4. First-aid measures

Inhalation If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not

breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Ingestion Rinse mouth thoroughly with water immediately. Give plenty of water to drink. Do not induce vomiting.

Seek medical advice.

Skin Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and

wash before re-use. If irritation occurs seek medical advice.

**Eye contact** Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open.

Seek medical advice.

First Aid Facilities Maintain eyewash fountain and safety shower in work area.

Advice to Doctor Treat symptomatically.

Other Information For advice, contact the National Poisons Information Centre (Phone Australia 13 11 26; New Zealand

0800 764 766) or a doctor.

#### 5. Fire-fighting measures

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Hazards from

May librate toxic fumes in fire (oxides of carbon and oxides of sodium).

Combustion **Products** 

Use extinguishing media most appropriate for the surrounding fire. No limitations to the type of extinguishing media.

Specific hazards

**Specific Methods** 

Material does not burn.

arising from the chemical

Precautions in Wear SCBA and structural firefighter's uniform.

connection with Fire

6. Accidental release measures

Personal Avoid inhalation, contact with skin, eyes and clothing.

**Precautions** 

Personal Protection Wear protective clothing specified for normal operations (see Section 8)

Clean-up Methods -Sweep up (avoid generating dust) and remove to a suitable, clearly labelled container for disposal in **Small Spillages** accordance with local regulations.

7. Handling and storage

Precautions for Safe Avoid generation or accumulation of dusts. Use with adequate ventilation. In case of insufficient Handling

ventilation, wear suitable respiratory equipment. Wash hands and face thoroughly after working with

material.

Conditions for safe storage, including

incompatabilities

Store in a well ventilated place away from ignition sources, oxidising agents, foodstuffs and clothing.

Keep containers closed when not in use.

8. Exposure controls/personal protection

A time weighted average (TWA) has been established for Molybdemum, soluble compounds (as Mo) Other Exposure Information (Safe Work Australia) of 5 mg/m<sup>3</sup>. The exposure value at the TWA is the average airborne concentration

of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. In industrial situations maintain the concentrations values below the TWA. This may be achieved by

**Appropriate** engineering controls process modification, use of local exhaust ventilation, capturing substances at the source, or other

Respiratory

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing dust, vapours or mists. Respiratory protection should comply with AS 1716 - Respiratory Protective Devices and be **Protection** selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective

Devices. Filter capacity and respirator type depends on exposure levels. In event of emergency or planned entry into unknown concentrations a positive pressure, full-facepiece SCBA should be used. If respiratory protection is required, institute a complete respiratory protection program including selection,

fit testing, training, maintenance and inspection.

The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate. **Eye Protection** 

Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336. Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and

**Hand Protection** 

Recommendation: Rubber or plastic gloves.

**Personal Protective** Equipment

Final choice of personal protective equipment will depend on individual circumstances and/or according

to risk assessments undertaken.

Safety boots in industrial situations is advisory, foot protection should comply with AS 2210, **Footwear** 

Occupational protective footwear - Guide to selection, care and use.

Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection **Body Protection** 

against chemicals should comply with AS 3765 Clothing for Protection Against Hazardous Chemicals.

**Hygiene Measures** Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other

protective equipment before storing or re-using.

9. Physical and chemical properties

**Form** Solid

White granular powder. **Appearance** 

Odourless. Odour

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**SODIUM MOLYBDATE Dihydrate** Product Name:

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**Melting Point** 687 °C

Solubility in Water 840 g/L (20 °C)

**Specific Gravity** 

7.9 - 10.3 (5%, H2O, 20 °C) рH Non combustible material. **Flammability** 

**Molecular Weight** 

10. Stability and reactivity

**Chemical Stability** Stable under normal use conditons.

Conditions to Avoid Incompatibles.

Incompatible Strong oxidising agents, alkali metals, most common metals, molten magnesium and interhalogens (e.g.

**Materials** bromine pentafluoride; chlorine trifluoride). Carbon, molybdenum and sodium oxides. Hazardous

**Decomposition Products** 

Possibility of

Explodes on contact with molten magnesium. Violent reaction with interhalogens (e.g. bromine hazardous reactions pentafluoride; chlorine trifluoride). Incandescent reaction with hot sodium, potassium or lithium.

Will not occur. Hazardous

**Polymerization** 

11. Toxicological Information

Ingestion Moderately toxic. Large doses may cause severe distress, cramping, vomiting and hypertension.

Symptoms of an acute molybdenum (VI) intoxication: diarrhoea, anaemia (decreased haemoglobin

concentration in the blood), fatigue. Toxic effect on liver and kidneys after high doses.

Irritating to mucous membranes and upper respiratory tract. Symptoms may include coughing and Inhalation

shortness of breath. Can be route for absorption.

Irritating to skin. Contact with wet skin may cause a rash which is difficult to heal. May be harmful if Skin

absorbed through the skin.

Irritating to eyes. May act as a sensitizer. Eve No evidence of carcinogenic properties. Carcinogenicity

**Chronic Effects** Prolonged exposure may cause anemia. Molybdenum is rapily excreted from the body.

Mutagenicity No evidence of mutagenic properties.

12. Ecological information

Methods for the determination of biodegradability are not applicable to inorganic substances. Persistence and

degradability

Acute Toxicity - Fish LC50 (Onchorhynchus mykiss): 7600 mg/l/96 h.

**Acute Toxicity -**

EC50 (Daphnia magna): 330 mg/l/48 h.

Daphnia

**Acute Toxicity -**IC50 (Selenastrum capricornutum): > 100 mg/l/72 h.

Algae

EC10 (Ps. putida): 50 mg/l/18 h. **Acute Toxicity -**

**Bacteria** 

13. Disposal considerations

Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, Disposal

Considerations state and federal government regulations.

14. Transport information

**Transport** Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous

Goods by Road and Rail. Information

15. Regulatory information

Listed in the Australian Inventory of Chemical Substances (AICS). Regulatory

Information

**Poisons Schedule** Not Scheduled

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#### 16. Other Information

Date of preparation August 2009.

or last revision of

**SDS** 

Literature References 'Standard for the Uniform Scheduling of Medicines and Poisons No. 4', Commonwealth of Australia,

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Inc., NY, 1997.

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and Rail 7th. Ed.', 2007.

'Labelling of Hazardous Workplace Chemicals, Code of Proctice' Safe Work Australia.

Standards Australia 'AS 1940-2004 The Storage and Handling of Flammable and Combustible Liquids. Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide',

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Worksafe Australia, 'Hazardous Substances Information System, 2005'.

Worksafe Australia, 'National Code of Practice for the Labelling of Workplace Hazardous Substances

(2011)'.

Worksafe Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational

Environment [NOHSC:1003(1995)]'.

Contact Person/Point Paul McCarthy Ph. (08) 8440 2000 DISCLAIMER STATEMENT:

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Empirical Formula & Na2MoO4.2H2O

Structural Formula

...End Of MSDS...

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