

Sodium molybdate dihydrate**13315-1KG**

Version 1.1 1

Revision Date 06/11/2017

Print Date 08/27/2018

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Sodium molybdate dihydrate

SDS Number : 000000020206

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : CHEM-SUPPLY Pty Ltd
38-50 Bedford St.
Gillman SA 5013, Australia

For more information call : +61 8 8440 2000
(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : Medical: 1-800-498-5701 or +1-303-389-1414
: **Transportation (CHEMTREC): 1-800-424-9300 or +1-703-**
: **527-3887**
: **CHEMTREC in Australia: +(61)-290372994**
: (24 hours/day, 7 days/week)

2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

GHS Label elements, including precautionary statements

Precautionary statements : **Prevention:**
Use personal protective equipment as required.

Other hazards which do not result in classification : Repeated or prolonged exposure may irritate eyes, skin and respiratory system.

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Sodium molybdate dihydrate

Formula : $\text{MoNa}_2\text{O}_4 \cdot 2\text{H}_2\text{O}$

Chemical nature : Substance

CAS-No. : 10102-40-6

Hazardous components

none

4. FIRST AID MEASURESGeneral advice : First aider needs to protect himself.
Move out of dangerous area.
Take off all contaminated clothing immediately.

Inhalation : If inhaled, remove to fresh air.

Skin contact : After contact with skin, wash immediately with plenty of water.

Eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion : Rinse mouth with water.
Call a physician immediately.**5. FIREFIGHTING MEASURES**Suitable extinguishing media : Water spray
Foam
Carbon dioxide (CO₂)
Dry powder

Specific hazards during firefighting : Hazardous decomposition products formed under fire conditions.

Special protective equipment for firefighters : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Provide adequate ventilation.
Avoid dust formation.
- Environmental precautions : Should not be released into the environment.
- Methods for cleaning up : Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE**Handling**

- Advice on safe handling : Wear personal protective equipment.
Use with local exhaust ventilation.
Avoid dust formation.
- Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

- Requirements for storage areas and containers : Store in original container.
Keep containers tightly closed in a dry, cool and well-ventilated place.
- Materials to avoid : No information available.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

none

Engineering measures

Use with local exhaust ventilation.

Personal protective equipment

- Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
- Hand protection : Latex gloves
Gloves must be inspected prior to use.
Replace when worn.

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Eye protection	: Safety glasses with side-shields
Skin and body protection	: Protective suit
Hygiene measures	: Keep away from food, drink and animal feedingstuffs. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.
Protective measures	: Ensure that eyewash stations and safety showers are close to the workstation location. Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing dust or spray mist.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: crystalline
Colour	: white
Odour	: odourless
pH	: 7.0 - 10.0 at , 20 °C
Melting point/range	: 100 °C Note: Elimination of water of crystallisation
Flash point	: Note: Not applicable
Lower explosion limit	: Note: Not applicable
Upper explosion limit	: Note: Not applicable
Density	: ca. 2.700 g/cm ³ at 20 °C

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Water solubility : 840.0 g/l at 20 °C

Ignition temperature : Note: Not applicable

Decomposition temperature : 100 °C
Note: Loss of water of crystallization on heating.

Molecular weight : 241.95 g/mol

Bulk density : ca. 930 kg/m³**10. STABILITY AND REACTIVITY**

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Hazardous polymerisation does not occur.

Conditions to avoid : No information available.

Incompatible materials to avoid : No information available.

11. TOXICOLOGICAL INFORMATIONAcute oral toxicity : LD50: 4,233 mg/kg
Species: Rat
Method: OECD Test Guideline 401
Test substance: anhydrous substanceAcute inhalation toxicity : LC50: > 1.93 mg/l , dust/mist
Exposure time: 4 h
Species: Rat
Test substance: anhydrous substance
Note: No deaths

Acute dermal toxicity : LD50: > 2,000 mg/kg

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Species: Rat
Method: OECD Test Guideline 402
Test substance: anhydrous substance
Note: No deaths

Skin irritation : Species: Rabbit
Classification: non-irritant
Method: OECD Test Guideline 404
Test substance: anhydrous substance

Eye irritation : Species: Rabbit
Result: slight irritation
Method: OECD Test Guideline 405
Test substance: anhydrous substance

Sensitisation : Maximisation Test
Species: Guinea pig
Classification: non-sensitizing
Test substance: anhydrous substance
Method: OECD Test Guideline 406

Genotoxicity in vitro : Test Method: In vitro gene mutation study in mammalian cells
Cell type: Mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Result: negative
Method: OECD Test Guideline 476

: Test Method: Ames test
Metabolic activation: with and without metabolic activation
Result: negative
Method: OECD Test Guideline 471

Aspiration toxicity : Not applicable

Teratogenicity : Species: Rat Application Route: Oral
NOAEL: >40 mg/kg bw/d
NOAEL: >40 mg/kg bw/d
Method: OECD Test Guideline 414

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12. Ecological information**Toxicity**

Toxicity to fish : semi-static test
LC50: 610 mg/l
Exposure time: 96 h
Species: Pimephales promelas (fathead minnow)
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : LC50: 1,680 mg/l
Exposure time: 48 h
Species: Daphnia (water flea)
Method: OECD Test Guideline 202

Toxicity to algae : Note: no data available

Toxicity to bacteria : Respiration inhibition
EC50: 820 mg/l
Exposure time: 3 h
Species: activated sludge
Test substance: REACH dossier "read-across"
Method: OECD 209

Persistence and degradability

Biodegradability : Note: The methods for determining biodegradability are not applicable to inorganic substances.

13. DISPOSAL CONSIDERATIONS

Product : In accordance with local and national regulations.

14. TRANSPORT INFORMATION**ADR**

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Not dangerous goods

ADG ROAD

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

RID

Not dangerous goods

15. REGULATORY INFORMATION**National regulatory information**

Standard for the Uniform : No poison schedule number allocated
Scheduling of Medicines and
Poisons

Other international regulations**Notification status**

US. Toxic Substances : On TSCA Inventory
Control Act

Australia. Industrial Chemical : On the inventory, or in compliance with the inventory
(Notification and
Assessment) Act

Canada. Canadian : All components of this product are on the Canadian DSL
Environmental Protection Act
(CEPA). Domestic
Substances List (DSL)

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Toxic Chemical : On the inventory, or in compliance with the inventory
Control Law (TCCL) List

Philippines. The Toxic : On the inventory, or in compliance with the inventory
Substances and Hazardous
and Nuclear Waste Control
Act

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China. Inventory of Existing Chemical Substances : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand : On the inventory, or in compliance with the inventory

16. OTHER INFORMATION**Sources of key data used to compile the Safety Data Sheet:**

1. National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]
2. Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]
3. List of Designated Hazardous Substances [NOHSC:10005(1999)]
4. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003(1995)]
5. Australian Dangerous Goods Code, No. 6 [National Road Transport Commission]
6. Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP), No. 19 [NDPSC: 2004]
7. National Code of Practice for the Labelling of Workplace Substances [NOHSC:2012(1994)]

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Prepared by:
Honeywell Performance Materials and Technologies Product Stewardship Group

End of Safety Data Sheet