

# Safety Data Sheet

Date of Issue: 01.12.2020 Date of Expiry: 01.12.2025

# 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name : ECP Limited

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Product Name	Sodium Molybdate dihydrate
Product Code	48301
CAS No.	10102-40-6

Recommended use : Laboratory Investigations

#### 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### 2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## **Environmental Protection Authority New Zealand**

Approval number: HSR004076

**HSNO Classification** - **Health Hazards** Classification 6.1E Acutely toxic

# 3: Composition/information on ingredients

#### 3.1 Substances

Substance name : Sodium molybdate(VI) dihydrate

Molecular formula : Na2MoO4·2H2O Molecular weight : 241.95 g/mol CAS No. : 10102-40-6 : 000-000-00-0

# 4: First aid measures

#### 4.1 General information

When in doubt or if symptoms are observed, get medical advice. If unconscious place in recovery position and seek medical advice. Never give anything by mouth to an unconscious person or a person with cramps. Change contaminated, saturated clothing. Do not leave affected person unattended.

#### After inhalation

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

#### In case of skin contact

After contact with skin, wash immediately with plenty of water and soap. Remove contaminated, saturated clothing immediately.

In case of skin reactions, consult a physician.

#### After eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Protect uninjured eye. Remove contact lenses, if present and easy to do. Continue rinsing.

## In case of ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting. Give nothing to eat or drink.

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

no data available

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

no data available

# 4.4 Self-protection of the first aider

First aider: Pay attention to self-protection!

#### 4.5 Information to physician

no data available

# 5: Firefighting measures

## 5.1 Extinguishing media

## Suitable extinguishing media

The product itself does not burn.

Co-ordinate fire-fighting measures to the fire surroundings.

## Extinguishing media which must not be used for safety reasons

no restriction

## 5.2 Special hazards arising from the substance or mixture

In case of fire may be liberated:

Pyrolysis products, toxic

## 5.3 Advice for firefighters

DO NOT fight fire when fire reaches explosives.

Special protective equipment for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

# Additional information

Do not allow run-off from firefighting to enter drains or water courses.

Do not inhale explosion and combustion gases.

Use water spray jet to protect personnel and to cool endangered containers.

In case of fire: Evacuate area.

# 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

# 6.2 Environmental precautions

Do not allow to enter into surface water or drains.

# 6.3 Methods and material for containment and cleaning up

Spilled product must never be returned to the original container for recycling. Clean contaminated articles and floor according to the environmental legislation. Collect in closed and suitable containers for disposal.

#### 6.4 Additional information

# 7: Handling and storage

# 7.1 Precautions for safe handling

Avoid: Inhalation Avoid contact with eyes and skin. Use extractor hood (laboratory). If handled uncovered, arrangements with local exhaust ventilation have to be used. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Protect from moisture.

# 7.2 Conditions for safe storage, including any incompatibilities

Recommended storage temperature: 15-25°C

Storage class: 10-13

Keep container tightly closed and in a well-ventilated place.

#### 7.3 Specific end use(s)

no data available

### 8: Exposure controls/personal protection

## 8.1 Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

# 8.2 Exposure controls

# Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# Personal protective equipment

# Eye/face protection

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards.

# Skin protection

Handle with gloves. 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 in accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Body Protection**

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

# **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type or respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards.

#### 9: Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

(a) Appearance

Physical state : solid Colour : white

(b) Odour : no data available (c) Odour threshold : no data available

Safety relevant basic data

(d) pH : 7.9-10.3 (50 g/l; H2O; 20 °C)

(e) Melting point/freezing point : 687 °C

(f) Initial boiling point and boiling range : no data available (g) Flash point : no data available (h) Evaporation rate : no data available

(i) Flammability (solid, gas) : not applicable

(j) Flammability or explosive limits

Lower explosion limit : no data available
Upper explosion limit : no data available
(k) Vapour pressure : no data available
(l) Vapour density : no data available
(m) Relative density : 3.28 g/cm³ (20 °C)

(n) Solubility(ies)

Water solubility (g/L) : 840 g/l (20 °C)
Soluble (g/L) in Ethanol : no data available
(o) Partition coefficient: n-octanol/water : no data available
(p) Auto-ignition temperature : no data available
(q) Decomposition temperature : no data available

(r) Viscosity

Kinematic viscosity : no data available
Dynamic viscosity : no data available
(s) Explosive properties : not applicable
(t) Oxidising properties : not applicable

#### 9.2 Other information

Bulk density : 3.28 g/cm³ (20 °C)
Refraction index : no data available
Dissociation constant : no data available
Surface tension : no data available
Henry constant : no data available

# 10: Stability and reactivity

# 10.1 Reactivity

No data available

# 10.2 Chemical stability

Stable under recommended storage conditions.

# 10.3 Possibility of hazardous reactions

No data available

## 10.4 Conditions to avoid

No data available

# 10.5 Incompatible materials

Strong oxidizing agents

# 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sodium oxides, Molybdenum oxides

Other decomposition products - No data available

In the event of fire: see section 5

# 11: Toxicological information

# 11.1 Information on toxicological effects

**Acute effects** 

Acute oral toxicity:

LD50: > 4233 mg/kg - Rat - (Merck KGaA)

Acute dermal toxicity:

LD50: < 2000 mg/kg - Rabbit - (IUCLID) LD50: < 2000 mg/kg - Rat - (Merck KGaA)

Acute inhalation toxicity:

no data available

#### Irritant and corrosive effects

Primary irritation to the skin:

not applicable

Irritation to eyes:

not applicable

Irritation to respiratory tract:

not applicable

#### Respiratory or skin sensitisation

In case of skin contact: not sensitising

After inhalation: not sensitising

# STOT-single exposure

not applicable

# STOT-repeated exposure

not applicable

# CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

# Carcinogenicity

No indication of human carcinogenicity.

# Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

#### Reproductive toxicity

No indications of human reproductive toxicity exist.

#### **Aspiration hazard**

not applicable

# Other adverse effects

no data available

# **Additional information**

no data available

# 12: Ecological information

# 12.1 Ecotoxicity

#### Fish toxicity:

LC50: 1320 mg/l (96 h) - McConnell, R.P. 1977. Toxicity of Molybdenum to Rainbow Trout Under Laboratory Conditions.

Proc.Int.Symp.Molybdenum Environ.Ser. 2:725-730

Daphnia toxicity: no data available no data available Bacteria toxicity: no data available

# 12.2 Persistence and degradability

no data available

## 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water: no data available

# 12.4 Mobility in soil:

no data available

# 12.5 Results of PBT/vPvB assessment

no data available

#### 12.6 Other adverse effects

no data available

## 13: Disposal considerations

#### 13.1 Waste treatment methods

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

Dispose of as unused product.

## 14: Transport Information

#### Land transport (ADR/RID)

No dangerous good in sense of this transport regulation.

## Sea transport (IMDG)

No dangerous good in sense of this transport regulation.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code not relevant

# Air transport (ICAO-TI / IATA-DGR)

No dangerous good in sense of this transport regulation.

# 15: Regulatory information

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### 15.2 Chemical safety assessment

For this product, a chemical safety assessment was not carried out

# 16: Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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