

MATERIAL SAFETY DATA SHEET

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Version :01

PRODUCT NAME: SODIUM MOLYBDATE DIHYDRATE CAS Number: 10102-40-6

1. IDENTIFICATION:

Product Code : 91839, 91509, 91655

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

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2. HAZARDS IDENTIFICATION:

Hazard classification

Physical hazards : Not a hazardous substance or mixture

Health hazards : Not a hazardous substance or mixture

Labels elements : Not a hazardous substance or mixture

Hazard symbol : Not a hazardous substance or mixture

Signal word : Not a hazardous substance or mixture

Hazard statement : Not a hazardous substance or mixture

Precautionary statement

Prevention: Obtain special instructions before use.

Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

Keep container tightly closed. Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools. Take precautionary measures against static discharge.

Response : IF exposed or concerned: Get medical advice/ attention.

IF ON SKIN (or hair): Rinse skin with water/ shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Storage : Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are

opened must be carefully resealed and kept upright to prevent leakage.

Disposal : Dispose of contents/container to an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product characteristics at time of

disposal

Other hazards which do not : result in GHS classification

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.



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COMPOSITION/ INFORMATION ON INGRADIENTS:

Ingredient **CAS Number Percent Hazardous**

Sodium Molybdate

10102-40-6 NLT 98.0% Nο Dihydrate

FIRST AID MEASURES:

General information : Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in

attendance.

Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach Ingestion

content doesn't get into the lungs.

Move to fresh air. If breathing stops, provide artificial respiration. If breathing is difficult, Inhalation

give oxygen.

Skin contact Flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

Eye contact Flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

Most important

symptoms/effects, acute

and delayed

Indication of immediate

medical attention and special treatment needed Not a hazardous substance or mixture.

: No data available.

FIRE FIGHTING MEASURES:

General information No data available.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media

Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing

media

: Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising

from the chemical

Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance

to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Vapor from the solvent may accumulate in container headspace resulting in

flammability hazard. Heat may cause the containers to explode.

Special protective equipment and precautions for firefighters

Special firefighting Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting procedures

the fire. Fight fire from a protected location. Move containers from fire area if you can do so

without risk.

Special protective

Firefighters must use standard protective equipment including flame retardant coat, helmet

with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. equipment for fire-fighters



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6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.

Methods and material for containment and cleaning

up

Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

Notification Procedures

Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if

large amounts are involved.

Environmental precautions

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE:

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye

Protection / face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.

Conditions for safe storage,

including any incompatibilities

Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry,

well-ventilated place.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Control parameters

General information

Appropriate engineering

controls

No data available

Individual protection measures, such as personal protective equipment

rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation

area. Use explosion-proof ventilation equipment.

Eye/face protection . Wear safety glasses with side shields (or goggles).

Hand protection Chemical resistant gloves.

Other . Wear suitable protective clothing.

Respiratory protection In case of inadequate ventilation use suitable respirator.



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Hygiene measures

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance : White crystalline powder.

Odor : Odorless

Solubility : Miscible in water.

Formula : $Na_2MoO_4._2H_2O$

Molecular Weight : 241.95 g/mol

Specific Gravity : 2,71 g/cm3 at 22 °C

pH : 7.0 - 10.5

% Volatiles by volume @

21C (70F)

: No data available.

Boiling Point : Not applicable.

Melting Point : 687°C

Flash Point : Not applicable.

Vapor Density (Air=1) : No data available.

Vapor Pressure (mm Hg) : Not applicable.

Evaporation Rate (BuAc=1) : No data available.

10. STABILITY AND REACTIVITY:

Reactivity : No data available.

Chemical stability : Material is stable under ambient conditions..

Possibility of hazardous

reactions

No data available.

Conditions to avoid : No data available.

Incompatible materials : No data available.

Hazardous decomposition

products

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION:

Information on likely routes of exposure

Ingestion : No data available.

Inhalation : No data available.



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Skin contact : No data available.

Eye contact : No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product : LD 50 - Rat - male and female - 4.040 mg/kg.

Dermal Product : LD 50 Rat - male and female - > 2.000 mg/kg.

Inhalation Product LC 50 Rat - male and female - 4 h - > 1,93 mg/l - dust/mist.

Repeated dose toxicity

Product

: No data available.

: No data available.

Skin corrosion/irritation

Product

Prolonged or repeated skin contact may cause drying, cracking, or irritation.

Serious eye damage/eye

irritation Product

Respiratory or skin sensitization Product

: Not a skin sensitizer.

Carcinogenicity Product This substance has no evidence of carcinogenic properties

IARC Monographs on the

Evaluation of Carcinogenic

Risks to Humans

US. National Toxicology

Program (NTP) Report on

Carcinogens

US. OSHA Specifically

Regulated Substances (29

CFR 1910.1001-1050

Germ cell mutagenicity

: No carcinogenic components identified.

: No carcinogenic components identified.

: No carcinogenic components identified.

In vitro Product No data available.

Reproductive toxicity

Product

No components toxic to reproduction.

Specific target organ

toxicity - single exposure

Product

Specific target organ toxicity - repeated

exposure Product

: No data available.

: No data available.

Aspiration hazard Product

No data available.

Other effects

: No data available.



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Marine

Pollutant

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12. ECOLOGICAL INFORMATION:

Ecotoxicity

Acute hazards to the aquatic environment

Fish Product

: LC50 - Pimephales promelas (fathead minnow) - 609,1 mg/l

Aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 130,9 mg/l

Product

Chronic hazards to the aquatic environment

Fish Product

: No data available.

Product

Aquatic invertebrates

No data available.

Toxicity to Aquatic Plants

Product:

No data available.

Persistence and degradability

Biodegradation Product

The methods for determining the biological degradability are not applicable to inorganic

substances.

BOD/COD ratio Product

No data available.

Bioaccumulative potential

Bioconcentration factor

(BCF) Product

Mobility in soil

No data available on bioaccumulation.

Partition coefficient n-

octanol / water (log Kow)

Product

: No data available.

Other adverse effects

No data available.

No data available.

13. DISPOSAL CONSIDERATION:

Disposal instructions

Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.

Contaminated packaging

Since emptied containers retain product residue, follow label warnings even after container

is emptied.

14. TRANSPORT INFORMATION:

UN No. **UN proper shipping** Hazard **Packaging**

Class(es) name group

DOT Sodium Molybdate Dihydrate Not dangerous goods **IMDG** Sodium Molybdate Dihydrate Not dangerous goods Sodium Molybdate Dihydrate Not dangerous goods IATA



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This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.

16. OTHER INFORMATION:

15. REGULATORY INFORMATION:

NFPA Hazard ID

: 2 0 Flammability
Health
Reactivity
Special hazard.

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue Date : 12/06/2023

Version : 01

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