



SODIUM MOLYBDATE DIHYDRATE

SECTION 1: CHEMICAL PRODUCT IDENTIFICATION

Product Name: Sodium molybdate dihydrate

Product Code: 449 **CAS#:** 10102-40-6

Synonym: Molybdic acid sodium salt dihydrate

Chemical Name: Not available Chemical Formula: Na₂MoO₄.2H₂O

Formula weight: 241.95

SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS

Composition:

Name: Sodium molybdate dihydrate

Toxicological Data on Ingredients: Not available

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture

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

Potential Acute Health Effects: Not available
Potential Chronic Health Effects: Not available

Carcinogenic Effects: Not available
Mutagenic Effects: Not available.
Teratogenic Effects: Not available.
Developmental Toxicity: Not Available
Specific target organ toxicity - Not available

SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled If breathed in: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact Wash off with soap and plenty of water. Consult a physician.

In case of eye contact: Flush eyes with water as a precaution.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delay: No data available

Indication of any immediate medical attention and special treatment needed: No data available

SECTION 5: FIRE AND EXPLOSION DATA

Extinguishing media

Suitable extinguishing media:

Water Foam Carbon dioxide (CO2) Dry powder.

Special hazards arising from the substance or mixture

Sodium oxides

Molybdenum oxides

Not combustible.

Ambient fire may liberate hazardous vapours.











MATERIAL SAFETY DATA SHEET



Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

Environmental precautions Do not let product enter drains.

Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Work under hood. Do not inhale substance/mixture.

Conditions for safe storage, including any incompatibilities

Tightly closed. Dry.

Storage Class:

Not available.

Specific end use(s) A part from the uses:

No other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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 Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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 For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Form : Solid Colour : White Odour : Odorless **Odour Threshold** : Not available рΗ : Not available Melting point/freezing point : 100°C Initial boiling point and boiling range : Not available Flash point : Not available **Evapouration rate** : Not available Flammability (solid, gas) : Not available **Upper/lower flammability or explosive limits** : Not available : Not available Vapour pressure



MATERIAL SAFETY DATA SHEET

Vapour density: Not availableRelative density: Not available

Water solubility : 840 g/l at 20°C - completely soluble

Partition coefficient: Not availableAuto-ignition temperature: Not available

SECTION 10: STABILITY AND REACTIVITY DATA

Reactivity no data available

Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

Possibility of hazardous reactions

Risk of explosion/exothermic reaction with:

Alkali metals

Exothermic reaction with:

Lithium

Conditions to avoid:

Not available.

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products Other decomposition products - In the event of fire

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity:

LD50 Oral - Rat - 4.233 mg/kg Symptoms: Nausea, Vomiting LD50 Dermal - Rat - > 2.000 mg/kg

Skin corrosion/irritation no data available

Serious eye damage/eye irritation no data available **Respiratory or skin sensitization** no data available

Carcinogenicity no data available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity:

Toxicity to fish NOEC - Oncorhynchus mykiss (rainbow trout) - 3.200 mg/l - 96 h

LC50 - Oncorhynchus mykiss (rainbow trout) - 7.600 mg/l - 96 h

NOEC - Daphnia magna (Water flea) - 100 mg/l - 48 h

Toxicity to daphnia

and other aquatic invertebrates

Toxicity to algae NOEC - Pseudokirchneriella subcapitata (green algae) - 4,6 mg/l - 72 h

Toxicity to bacteria EC10 - Pseudomonas putida - 50 mg/l - 18 h

Persistence and degradability:

no data available

Bioaccumulative potential:

no data available

Mobility in soil no data available

Results of PBT and vPvB assessment PBT/vPvB assessment not available

Other adverse affects no data available

SECTION 13: DISPOSAL CONSIDERATIONS





MATERIAL SAFETY DATA SHEET

Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. 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.

SECTION 14: TRANSPORT INFORMATION

ADR/RID:

IMDG: IATA:

UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods
Transport hazard class(es):

ADR/RID: IMDG: IATA:

Packaging group:

UN number:

ADR/RID: IMDG: IATA:

Environmental hazards:

ADR/RID: No IMDG Marine pollutant: No IATA: No

SECTION 15: OTHER REGULATORY INFORMATION

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

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

Other regulations

Take note of Dir 94/33/EC on the protection of young people at work.

SECTION 16: OTHER INFORMATION

References: Full text of H AND R-Statements.

Not avaialable.

Special Considerations: Not available

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