

## Material Safety Data Sheet

| Section1. Product Information and Company Identification |                                                                     |               |            |
|----------------------------------------------------------|---------------------------------------------------------------------|---------------|------------|
| <b>Product name</b>                                      | Sodium Molybdate Dihydrate                                          |               |            |
| <b>Mol.formula</b>                                       | MoNa <sub>2</sub> O <sub>4</sub> · 2H <sub>2</sub> O                | <b>Cas no</b> | 10102-40-6 |
| <b>Mol.wt</b>                                            | 241.95 g/mol                                                        |               |            |
| <b>Manufacture name</b>                                  | Pioneers for laboratory chemicals                                   |               |            |
| <b>Brand name</b>                                        | Piochem                                                             |               |            |
| <b>Address</b>                                           | Area 540, Industrial Zone 6 <sup>th</sup> October city Giza, Egypt. |               |            |
| <b>Website</b>                                           | www.piochem.com                                                     |               |            |
| <b>E-mail</b>                                            | info@piochem.com                                                    |               |            |
| <b>Phone number</b>                                      | +201225728304 , +201023932115                                       |               |            |

### SECTION 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.

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Synonyms : Molybdic acid sodium salt dihydrate

Formula : MoNa<sub>2</sub>O<sub>4</sub> · 2H<sub>2</sub>O

Molecular weight : 241.95 g/mol

CAS-No. : 10102-40-6

EC-No. : 231-551-7

No components need to be disclosed according to the applicable regulations.

## **SECTION 4: First aid measures**

### **4.1 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**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### **If swallowed**

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

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### **5.2 Special hazards arising from the substance or mixture**

Sodium oxides, Molybdenum oxides

### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

### **5.4 Further information**

No data available

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

For personal protection see section 8.

### **6.2 Environmental precautions**

Do not let product enter drains.

### **6.3 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 for disposal.

### **6.4 Reference to other sections**

For disposal see section 13.

## **SECTION 7: Handling and storage**

### **7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.  
Storage class (TRGS 510): Combustible Solids

## 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

## 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

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

Impervious clothing, 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 r (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

## 9.1 Information on basic physical and chemical properties

- |                                            |                                       |
|--------------------------------------------|---------------------------------------|
| a) Appearance                              | Form: crystalline<br>Colour: white    |
| b) Odour                                   | No data available                     |
| c) Odour Threshold                         | No data available                     |
| d) pH                                      | No data available                     |
| e) Melting point/freezing point            | Melting point/range: 100 °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)               | No data available                     |
| j) Upper/lower flammability or             | explosive limits<br>No data available |

|    |                                        |                         |
|----|----------------------------------------|-------------------------|
| k) | Vapour pressure                        | No data available       |
| l) | Vapour density                         | No data available       |
| m) | Relative density                       | 2.370 g/cm <sup>3</sup> |
| n) | Water solubility                       | 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                              | No data available       |
| s) | Explosive properties                   | No data available       |
| t) | Oxidizing properties                   | No data available       |

## 9.2 Other safety information

No data available

## SECTION 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. - Sodium oxides, Molybdenum oxides

Other decomposition products - No data available

In the event of fire: see section 5

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

No data available Disodium molybdate dihydrate

LD50 Intraperitoneal - Rat - 520 mg/kg (Disodium molybdate dihydrate)

Remarks: Behavioral: Somnolence (general depressed activity). Behavioral: Coma.

#### Skin corrosion/irritation

Skin - Rabbit (Disodium molybdate dihydrate)

Result: No skin irritation

#### Serious eye damage/eye irritation

Eyes - Rabbit (Disodium molybdate dihydrate)

Result: Mild eye irritation

#### Respiratory or skin sensitisation

No data available (Disodium molybdate dihydrate)

#### Germ cell mutagenicity

No data available (Disodium molybdate dihydrate)

## **Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

## **Reproductive toxicity**

No data available(Disodium molybdate dihydrate)

## **Specific target organ toxicity - single exposure**

No data available(Disodium molybdate dihydrate)

## **Specific target organ toxicity - repeated exposure**

No data available

## **Aspiration hazard**

No data available(Disodium molybdate dihydrate)

## **Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Disodium molybdate dihydrate)

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

No data available

### **12.2 Persistence and degradability**

No data available

### **12.3 Bioaccumulative potential**

No data available

### **12.4 Mobility in soil**

No data available(Disodium molybdate dihydrate)

### **12.5 Results of PBT and vPvB assessment**

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.

### **12.6 Other adverse effects**

No data available

## **SECTION 13: Disposal considerations**

### **13.1 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 chem scrubber.

#### **Contaminated packaging**

Dispose of as unused product.

## **SECTION 14: Transport information**

### **14.1 UN number**

ADR/RID: -

IMDG: -

IATA: -

### **14.2 UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

### **14.3 Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA: -

**14.4 Packaging group**

ADR/RID: -

IMDG: -

IATA: -

**14.5 Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

**14.6 Special precautions for user**

No data available

**SECTION 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

**SECTION 16: Other information****Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. See [www.piochem.com](http://www.piochem.com) for additional terms and conditions of sale.