## SIGMA-ALDRICH

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### SAFETY DATA SHEET

Version 3.9 Revision Date 06/08/2018 Print Date 11/10/2018

					Print Date 11/1	
1. P	RODUCT AND COMPANY	IDEN	TIFICATION			
1.1	Product identifiers Product name	:	Sodium molybda	ate dihydrate		
	Product Number Brand	:	M1003 Sigma-Aldrich			
	CAS-No.	:	10102-40-6			
.2	Relevant identified uses of the substance or mixture and uses advised against					
	Identified uses	:	Laboratory chemicals,	Synthesis of substances		
1.3	Details of the supplier of the safety data sheet					
	Company	:	Sigma-Aldrich 3050 Spruce Street SAINT LOUIS MO 63 USA	103		
	Telephone Fax	:	+1 800-325-5832 +1 800-325-5052			
.4	Emergency telephone number					
	Emergency Phone #	:	+1-703-527-3887 (CH	EMTREC)		
2. H	AZARDS IDENTIFICATIO	N				
2.1	Classification of the sub	stance	e or mixture			
	Not a hazardous substance or mixture.					
2.2	GHS Label elements, including precautionary statements					
	Not a hazardous substance or mixture.					
2.3	Hazards not otherwise cl	assifi	ed (HNOC) or not cover	red by GHS - none		
3 0	COMPOSITION/INFORMAT					
6. C	Substances					
5.1	Synonyms	:	Molybdic acid sodium	salt dihydrate		
	Formula	:	MoNa <sub>2</sub> O <sub>4</sub> · 2H <sub>2</sub> O			
	Molecular weight CAS-No. EC-No.	:	241.95 g/mol 10102-40-6 231-551-7			
	Registration number	:	01-2119489495-21-XX	XXX		
	Hazardous components					
	Component			Classification	Concentration	

	Component	Classification	Concentration
Disodium molybdate dihydrate			
			-

#### 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

#### **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 No data available

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

#### 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.

#### 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.Normal measures for preventive fire protection. For precautions see section 2.2.

#### 7.2 Conditions for safe storage, including any incompatibilities Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): 13: Non Combustible Solids

#### 7.3 Specific end use(s)

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

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

#### Components with workplace 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.

Full contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm Break through time: 480 min Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

#### 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 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.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: crystalline Colour: white
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available

e) Melting point/freezing Melting point/range: 100 °C (212 °F)

point

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	No data available				
k)	Vapour pressure	No data available				
I)	Vapour density	No data available				
m)	Relative density	2.370 g/cm3				
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				
Other safety information						

9.2 Other safety information 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

# 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 toxicity No data available

Inhalation: No data available

Dermal: No data available

#### LD50 Intraperitoneal - Rat - 520 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Coma.

#### Skin corrosion/irritation

Skin - Rabbit Result: No skin irritation

#### Serious eye damage/eye irritation

Eyes - Rabbit Result: Mild eye irritation

#### **Respiratory or skin sensitisation** No data available

#### Germ cell mutagenicity

No data available

#### 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.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

#### **Reproductive toxicity**

No data available

#### No data available

Specific target organ toxicity - single exposure No data available

#### Specific target organ toxicity - repeated exposure No data available

#### Aspiration hazard No data available

#### **Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### 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

#### 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 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.

#### Contaminated packaging

Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

#### DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

#### ΙΑΤΑ

Not dangerous goods

#### 15. REGULATORY INFORMATION

#### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### SARA 311/312 Hazards

Chronic Health Hazard

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### **16. OTHER INFORMATION**

#### **HMIS Rating**

Health hazard: Chronic Health Hazard: Flammability: Physical Hazard	0 * 0 0
NFPA Rating Health hazard: Fire Hazard:	
Reactivity Hazard:	0

Further information

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**Preparation Information** Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

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