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MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1 Product identifiers

Product name : Sodium molybdate dihydrate, ≥99.5% Product Code: S 2126 CAS-No. : 10102-40-6

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 : MoNa2O4 · 2H2O 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 If inhaled After inhalation: fresh air. In case of skin contact In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. In case of eve contact After eye contact: rinse out with plenty of water. Remove contact lenses. If swallowed After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell. 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 extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.
5.2 Special hazards arising from the substance or mixture
Sodium oxides
Molybdenum oxides
Not combustible.
Ambient fire may liberate hazardous vapours.
5.3 Advice for firefighters
In the event of fire, wear self-contained breathing apparatus.
5.4 Further information
Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire

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extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. 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 Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts. 6.4 Reference to other sections For disposal see section 13. **SECTION 7: Handling and storage** 7.1 Precautions for safe handling For precautions see section 2.2. 7.2 Conditions for safe storage, including any incompatibilities Storage conditions Tightly closed. Dry. Storage class 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 **SECTION 8: Exposure controls/personal protection** 8.1 Control parameters Ingredients with workplace control parameters 8.2 Exposure controls Personal protective equipment Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses Skin protection This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Full contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de). Splash contact Material: Nitrile rubber Minimum layer thickness: 0,11 mm Break through time: 480 min Material tested:KCL 741 Dermatril® L Respiratory protection required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

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Recommended Filter type: Filter type P1 The entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. 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) Physical state solid b) Color white c) Odor odorless d) Melting Melting point/range: 100 °C point/freezing point e) Initial boiling point Not applicable and boiling range f) Flammability (solid, The product is not flammable. gas) g) Úpper/lower No data available flammability or explosive limits h) Flash point Not applicable i) Autoignition No data available temperature 130 °C - Elimination of water of crystallization i) Decomposition temperature 9 - 10 at 840 g/l at 20 °C k) pH Viscosity, kinematic: No data available I) Viscosity Viscosity, dynamic: Not applicable m) Water solubility 840 g/l at 20 °C n) Partition coefficient: Not applicable n-octanol/water o) Vapor pressure Not applicable p) Density 2,71 g/cm3 at 22 °C Relative density No data available q) Relative vapour No data available densitv r) Particle No data available characteristics s) Explosive properties No data available t) Oxidizing properties none 9.2 Other safety information No data available **SECTION 10: Stability and reactivity** 10.1 Reactivity No data available 10.2 Chemical stability The product is chemically stable under standard ambient conditions (room temperature). 10.3 Possibility of hazardous reactions no information available 10.4 Conditions to avoid no information available 10.5 Incompatible materials No data available 10.6 Hazardous decomposition products In the event of fire: see section 5

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SECTION 11: Toxicological information

11.1 Information on toxicological effects Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Toxicity to Animals: Oral LD50 Rat: 1500 mg/kg; Dermal LD50 Rabbit: 2000mg/kg Inhalation LC50 Rat: > 50mg/L. Chronic Effects on Humans: CARCINOGENIC EFFECTS: Classified None. by NTP, None. by OSHA, None. by NIOSH. Other Toxic Effects on Humans: Hazardous in case of skin contact (irritant), of inhalation (lung irritant). Special Remarks on Toxicity to Animals: Not available. Special Remarks on other Toxic Effects on Humans: Not available.

SECTION 12: Ecological information

12.1 Toxicity Toxicity to fish semi-static test LC50 - Pimephales promelas (fathead minnow) -609,1 mg/l - 96 h (OECD Test Guideline 203) Remarks: (ECHA) NOEC - Pimephales promelas (fathead minnow) - 143,8 mg/l - 32 d Remarks: (ECHA) Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - 130,9 mg/l - 48 h (OECD Test Guideline 202) Remarks: (ECHA) Toxicity to algae static test NOEC - Isochrysis galbana (salt water algae) - >= 9,5 mg/l - 72 h (OECD Test Guideline 201) Remarks: (ECHA) static test ErC50 - Pseudokirchneriella subcapitata (green algae) -289,2 mg/l - 72 h (OECD Test Guideline 201) Remarks: (ECHA) Toxicity to bacteria static test EC50 - activated sludge - 820 mg/l - 3 h (OECD Test Guideline 209) Remarks: The value is given in analogy to the following substances: disodium molybdate 12.2 Persistence and degradability The methods for determining the biological degradability are not applicable to inorganic substances. 12.3 Bioaccumulative potential Bioaccumulation Oncorhynchus tshawytscha(Disodium molybdate dihydrate) Remarks: No data available 12.4 Mobility in soil No data available 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 Endocrine disrupting properties Product. Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. 12.7 Other adverse effects No data available

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SECTION 13: Disposal considerations

13.1 Waste treatment methods No data available

SECTION 14: Transport information

14.1 UN number			
ADR/RID: -		IMDG: -	IATA: -
14.2 UN proper ship	ping name		
ADR/RID:	Not dangerous good	ls	
IMDG:	Not dangerous good	ls	
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			
Further information			
Not classified as dangerous in the meaning of transport regulations.			
SECTION 15: Regulatory information			
15.1 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.			
1007/2006			

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

Section 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

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