

M1003-500G

Version 1.3

Revision Date 24.07.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

4.4. Deside at the set of		
1.1. Product identifier		
Product name	: Sodium molybdate dihydrat	te
SDS-number	: 00000020206	
Type of product	: Substance	
Remarks	: Document according to Art.	. 32 of Regulation (EC) 1907/2006
Chemical name	: Sodium molybdate-2-hydra	ate
CAS-No.	: 10102-40-6	
REACH Registration Number	: 01-2119489495-21	
1.2. Relevant identified u	ises of the substance or mixture	e and uses advised against
Use of the Substance/Mixture	: Laboratory chemicals	
Uses advised against	: none	
-	: none er of the safety data sheet	
1.3. Details of the suppli Company Telephone Telefax For further information,	er of the safety data sheet : Honeywell Specialty Chemicals Seelze GmbH Wunstorfer Straße 40 30926 Seelze Germany : (49) 5137-999 0 : (49) 5137-999 123 : PMTEU Product Stewardsh	USA hip:
1.3. Details of the suppli Company Telephone Telefax For further information, please contact:	er of the safety data sheet : Honeywell Specialty Chemicals Seelze GmbH Wunstorfer Straße 40 30926 Seelze Germany : (49) 5137-999 0 : (49) 5137-999 123 : PMTEU Product Stewardsh SafetyDataSheet@Honeyw	115 Tabor Road Morris Plains, NJ 07950-254 USA nip:
 1.3. Details of the suppli Company Telephone Telefax For further information, please contact: 1.4. Emergency telephon 	er of the safety data sheet : Honeywell Specialty Chemicals Seelze GmbH Wunstorfer Straße 40 30926 Seelze Germany : (49) 5137-999 0 : (49) 5137-999 123 : PMTEU Product Stewardsh SafetyDataSheet@Honeyw	115 Tabor Road Morris Plains, NJ 07950-254 USA hip: vell.com
1.3. Details of the suppli Company Telephone Telefax For further information,	er of the safety data sheet : Honeywell Specialty Chemicals Seelze GmbH Wunstorfer Straße 40 30926 Seelze Germany : (49) 5137-999 0 : (49) 5137-999 123 : PMTEU Product Stewardsh SafetyDataSheet@Honeyw	115 Tabor Road Morris Plains, NJ 07950-254 USA hip: vell.com



M1003-500G

Version 1.3

Revision Date 24.07.2018

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008

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

2.2. Label elements

REGULATION (EC) No 1272/2008

Precautionary statements : P280

Wear protective gloves/ eye protection/ face protection.

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

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.1. Substance

Chemical name	CAS-No. Index-No. REACH Registration Number EC-No.	Classification 1272/2008	Concentration	Remarks
Sodium molybdate-2- hydrate	10102-40-6 01-2119489495-21 231-551-7		100 %	N.C.*

N.C.* - Non-hazardous substance - for information only

3.2. Mixture

Not applicable

Occupational Exposure Limit(s), if available, are listed in Section 8. For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice:

First aider needs to protect himself. Move out of dangerous area. Take off all contaminated clothing immediately.

Inhalation:

Honeywell Fluka

Sodium molybdate dihydrate

M1003-500G

Version 1.3

Revision Date 24.07.2018

If inhaled, remove to fresh air.

Skin contact: After contact with skin, wash immediately with plenty of water.

Eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion: Rinse mouth with water. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

no data available

4.3. Indication of any immediate medical attention and special treatment needed

no data available

See Section 11 for more detailed information on health effects and symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water spray Foam Carbon dioxide (CO2) Dry powder

Extinguishing media which shall not be used for safety reasons: High volume water jet

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions.

5.3. Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Avoid dust formation.



M1003-500G

Version 1.3

Revision Date 24.07.2018

6.2. Environmental precautions

Should not be released into the environment.

6.3. Methods and materials for containment and cleaning up

Use mechanical handling equipment. Pick for disposal in tightly closed containers

6.4. Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling: Wear personal protective equipment. Use with local exhaust ventilation. Avoid dust formation.

Advice on protection against fire and explosion: Normal measures for preventive fire protection.

Hygiene measures:

Keep away from food, drink and animal feedingstuffs. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities

Further information on storage conditions: Store in original container. Keep containers tightly closed in a cool, well-ventilated place.

7.3. Specific end use(s)

no additional data available



Sodium molybdate dihydrate

M1003-500G

Version 1.3

Revision Date 24.07.2018

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits:

Components	Basis / Value type	Value / Form of exposure	Exceeding Factor	Remarks
Sodium molybdate-2-hydrate	EH40 WEL TWA	5 mg/m3		
		as Mo		
Sodium molybdate-2-hydrate	EH40 WEL STEL	10 mg/m3		
		as Mo		

TWA - Time weighted average

STEL - Short term exposure limit

DNEL/ PNEC-Values

Component	End- use/impact	Exposure duration	Value	Exposure routes	Remarks
Sodium molybdate-2- hydrate	Workers / Long-term systemic effects		23,97 mg/m3	Inhalation	
Sodium molybdate-2- hydrate	Consumers / Long-term systemic effects		7,15 mg/m3	Inhalation	
Sodium molybdate-2- hydrate	Consumers / Long-term systemic effects		7,3mg/kg bw/d	Ingestion	

Component	Environmental compartment / Value	Remarks
Sodium molybdate-2-hydrate	Fresh water: 27,25 mg/l	
Sodium molybdate-2-hydrate	Marine water: 4,87 mg/l	
Sodium molybdate-2-hydrate	Fresh water sediment: 48500 mg/kg	
Sodium molybdate-2-hydrate	Marine sediment: 5085 mg/kg	
Sodium molybdate-2-hydrate	Sewage treatment plant: 46,57 mg/l	Assessment factor: 10
Sodium molybdate-2-hydrate	Soil: 20,39 mg/kg dw	



Sodium molybdate dihydrate

M1003-500G

Version 1.3

Revision Date 24.07.2018

8.2. Exposure controls

Occupational exposure controls

The Personal Protective Equipment must be in accordance with EN standards:respirator EN 136, 140, 149; safety glasses EN 166; protective suit: EN 340, 463, 468, 943-1, 943-2; gloves EN 374, 511; safety shoes EN-ISO 20345.

Engineering measures

Use with local exhaust ventilation.

Personal protective equipment

Respiratory protection: In the case of dust or aerosol formation use respirator with an approved filter.

Hand protection: Glove material: Natural Latex Break through time: > 480 min Glove thickness: 0,6 mm Lapren®706 Gloves must be inspected prior to use. Replace when worn. Remarks:Supplementary note: The specifications are based on information and tests from similar substances by analogy. Due to varying conditions (e.g.temperature or other strains) it must be considered that the usage of a chemical protective glove in practice may be much shorter than the permeation time determined in accordance with EN 374. Since actual conditions of practical use often deviate from standardised conditions according EN 374 the glove manufacturer reccomends to use the chemical protective glove in practice not longer than 50% of the recomended permeation time. Manufacturer's directions for use should be observed because of great diversity of types . Suitable gloves tested according EN 374 are supplied e.g. from KCL GmbH, D-36124 Eichenzell, Vertrieb@kcl.de

Eye protection: Safety glasses with side-shields

Skin and body protection: Protective suit

Environmental exposure controls

Handle in accordance with local environmental regulations and good industrial practices.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form

crystalline

Page 6 / 13



Sodium molybdate dihydrate

M1003-500G

Version 1.3

Revision Date 24.07.2018

Colour	:	white
Odour	:	odourless
molecular weight	:	241,95 g/mol
Melting point/range	:	100 °C Elimination of water of crystallisation
Boiling point/boiling range	:	no data available
Flash point	:	Not applicable
Ignition temperature	:	Not applicable
Lower explosion limit	:	Not applicable
Upper explosion limit	:	Not applicable
Vapour pressure	:	no data available
Density	:	ca. 2,700 g/cm3 at 20 °C
Bulk density	:	ca. 930 kg/m3
Viscosity, dynamic	:	no data available
Viscosity, kinematic	:	no data available
рН	:	7,0 - 10,0 at 20 °C
Water solubility	:	840,0 g/l at 20 °C
Partition coefficient: n- octanol/water	:	no data available
Relative vapour density	:	no data available
Evaporation rate	:	no data available
9.2 Other Information		

no additional data available



Sodium molybdate dihydrate

M1003-500G

Version 1.3

Revision Date 24.07.2018

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended storage conditions.

10.2. Chemical stability

100 °C Loss of water of crystallization on heating.

10.3. Possibility of hazardous reactions

Hazardous polymerisation does not occur.

10.4. Conditions to avoid

No information available.

10.5. Incompatible materials

no data available

10.6. Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity: LD50 Species: Rat Value: 4.233 mg/kg Method: OECD Test Guideline 401 Test substance: anhydrous substance

Acute dermal toxicity: LD50 Species: Rat Value: > 2.000 mg/kg Method: OECD Test Guideline 402 Test substance: anhydrous substance

Acute inhalation toxicity: LC50 Species: Rat

Honeywell Fluka

Sodium molybdate dihydrate

M1003-500G

Version 1.3

Revision Date 24.07.2018

Value: > 1,93 mg/l Exposure time: 4 h Test substance: anhydrous substance

Skin irritation: Species: Rabbit Classification: non-irritant Method: OECD Test Guideline 404 Test substance: anhydrous substance

Eye irritation: Species: rabbit eye Classification: non-irritant Method: OECD Test Guideline 405 Test substance: anhydrous substance

Respiratory or skin sensitisation: Maximisation Test Route of exposure: Dermal Species: Guinea pig Classification: non-sensitizing Method: OECD Test Guideline 406 Test substance: anhydrous substance

Germ cell mutagenicity: Test Method: In vitro gene mutation study in mammalian cells Cell type: Mouse lymphoma cells Metabolic activation: with and without metabolic activation Result: negative Method: OECD Test Guideline 476

Test Method: Ames test Metabolic activation: with and without metabolic activation Result: negative Method: OECD Test Guideline 471

Reproductive toxicity: Method: OECD Test Guideline 414 Species: Rat Route of Application: Oral General Toxicity Maternal: NOAEL: > 40 mg/kg bw/d Developmental Toxicity: NOAEL: > 40 mg/kg bw/d

Aspiration hazard: Not applicable

Other information: no data available



Sodium molybdate dihydrate

M1003-500G

Version 1.3

Revision Date 24.07.2018

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish: LC50 semi-static test Species: Pimephales promelas (fathead minnow) Value: 610 mg/l Exposure time: 96 h Method: OECD Test Guideline 203

Toxicity to aquatic plants: no data available

Toxicity to Microorganisms: EC50 Respiration inhibition Species: activated sludge Value: 820 mg/l Exposure time: 3 h Method: OECD 209 Test substance: REACH dossier "read-across"

Toxicity to aquatic invertebrates: LC50 Species: Daphnia (water flea) Value: 1.680 mg/l Exposure time: 48 h Method: OECD Test Guideline 202

12.2. Persistence and degradability

Biodegradability: The methods for determining biodegradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

no data available

12.4. Mobility in soil

no data available

12.5. Results of PBT and vPvB assessment

no data available

Page 10 / 13

Honeywell Fluka

Sodium molybdate dihydrate

M1003-500G

Version 1.3

Revision Date 24.07.2018

12.6. Other adverse effects

no data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product:

Dispose according to legal requirements.

Packaging:

Legal requirements are to be considered in regard of reuse or disposal of used packaging materials

Further information: Provisions relating to waste: EC Directive 2006/12/EC; 2008/98/EEC Regulation No. 1013/2006

For personal protection see section 8.

SECTION 14: Transport information

ADR/RID Not dangerous goods

IATA Not dangerous goods

IMDG

Not dangerous goods

SECTION 15: Regulatory information

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

Poison Control Center

Country Phone Number	
Austria	+4314064343
Belgium	070 245245
Bulgaria	(+)35929154233
Croatia	(+3851)23-48-342
Cyprus	no data available
Czech Republic	+420224919293; +420224915402

Country	Phone Number
Liechtenstein	no data available
Lithuania	+370532362052
Luxembourg	070245245; (+352)80002-5500
Malta	no data available
Netherlands	030-2748888
Norway	22591300



Sodium molybdate dihydrate

M1003-500G

Version 1.3

Revision Date 24.07.2018

Denmark	82121212	
Estonia	16662; (+372)6269390	
Finland	9471977	
France	+33(0)145425959	
Greece	no data available	
Hungary	(+36-80)201-199	
Iceland	5432222	
Ireland	+353(1)8092166	
Italy	no data available	
	Berlin : 030/19240	
	Bonn : 0228/19240	
	Erfurt : 0361/730730	
Germany	Freiburg : 0761/19240	
Connaity	Göttingen : 0551/19240	
	Homburg : 06841/19240	
	Mainz : 06131/19240	
	Munich : 089/19240	
Latvia	+37167042473	

Poland	no data available
Portugal	808250143
Romania	no data available
Slovakia (NTIC)	+421 2 54 774 166
Slovenia	no data available
Spain	+34915620420
	112 (begär
Sweden	Giftinformation);+46104566786
Switzerland	145
United Kingdom	no data available

Other inventory information

US. Toxic Substances Control Act On TSCA Inventory

Australia. Industrial Chemical (Notification and Assessment) Act On the inventory, or in compliance with the inventory

Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL) All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List On the inventory, or in compliance with the inventory

Korea. Existing Chemicals Inventory (KECI) On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances On the inventory, or in compliance with the inventory

Page 12 / 13



M1003-500G

Version 1.3

Revision Date 24.07.2018

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Further information

All directives and regulations refer to amended versions. Vertical lines in the left hand margin indicate a relevant amendment from the previous version.

Abbreviations: EC European Community CAS Chemical Abstracts Service DNEL Derived no effect level PNEC Predicted no effect level vPvB Very persistent and very biaccumulative substance PBT Persistent, bioaccmulative und toxic substance

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.

This information should not constitute a guarantee for any specific product properties.