

# Sodium molybdate dihydrate

### 331058-100G

Version 1.4 Issuing date 07/22/2016

Revision Date 05/22/2020

Print Date 08/03/2021

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### Product information

	Trade name	:	Sodium molybdate dihydrate	
	Number	:	00000020206	
	Recommended use of the chemical and restrictions on use	:	Laboratory chemicals	
	Manufacturer or supplier's details	:	Honeywell Specialty Chemicals Seelze GmbH Wunstorfer Straße 40 Seelze, 30926	
	For further information, please contact:	:	1-800-368-0050 +1-231-726-3171 (Monday-Friday, 9:00am-5:00pm)	
	In case of emergency call	:	Medical: 1-800-498-5701 or +1-303-389-1414 Transportation (CHEMTREC): 1-800-424-9300 or +1-703- 527-3887 In Japan: +(81)-345209637 (24 hours/day, 7 days/week)	
2. ⊦	2. HAZARDS IDENTIFICATION			
	Classification of the substa	nce	e or mixture	
	Not a hazardous substance or mixture according to the Globally Harmonised System (GH		ixture according to the Globally Harmonised System (GHS).	
	GHS Label elements, inclue	ding	precautionary statements	
	Precautionary statements		: <b>Prevention:</b> Use personal protective equipment as required.	
	Other hazards which do not result in classification		: Repeated or prolonged exposure may irritate eyes, skin and respiratory system.	
	Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).			
3. C	COMPOSITION/INFORMATIO	NO	N INGREDIENTS	
	Formula	:	MoNa2O4 · 2H2O	

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			Honeywel Fluka
Sodium molybdate dihy	drate		
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Chemical nature	: Subst	tance	
Chemical name Sodium molybdate-2-hydrate Sodium molybdate-2-hydrate		CAS-No. 10102-40-6	Concentration >=90.00 - <=100.00 %
I. FIRST AID MEASURES			
General advice	Move	aider needs to protect himself. out of dangerous area. off all contaminated clothing im	mediately.
Inhalation	: If inha	aled, remove to fresh air.	
Skin contact	: After	contact with skin, wash immedia	ately with plenty of water.
Eye contact		e case of contact with eyes, rinse ter and seek medical advice.	e immediately with plenty
Ingestion		e mouth with water. a physician immediately.	
Notes to physician	: Treat	symptomatically.	
5. FIREFIGHTING MEASURES			
Suitable extinguishing media			
Specific hazards during firefighting	: Hazaı condi	rdous decomposition products f tions.	ormed under fire
Special protective equipment for firefighters		an approved positive pressure ratus in addition to standard fire	
Further information		extinguishing measures that are mstances and the surrounding e	
6. ACCIDENTAL RELEASE MEAS	URES		
Personal precautions, protective equipment and		de adequate ventilation. I dust formation. 2/10	



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emergency procedures Environmental precautions Methods and materials for containment and cleaning up	<ul><li>Should not be released into the environment.</li><li>Sweep up and shovel into suitable containers for disposal.</li></ul>	
7. HANDLING AND STORAGE		
Handling		
Precautions for 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.	
Storage		
Conditions for safe storage, including any incompatibilities	<ul> <li>Store in original container.</li> <li>Keep containers tightly closed in a dry, cool and well- ventilated place.</li> </ul>	

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters** Contains no substances with occupational exposure limit values.

#### Appropriate engineering controls

Use with local exhaust ventilation.

#### Individual protection measures, such as personal protective equipment

Respiratory protection	: In the case of dust or aerosol formation use respirator with an approved filter.	
Hand protection	: Latex gloves Gloves must be inspected prior to use. Replace when worn.	
Eye protection	: Safety glasses with side-shields	
Skin and body protection	: Protective suit	
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. 3/10	

AFETY DATA SHEET		Honeywel Fluka	
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Protective measures	the wo Legal selecti Avoid	e that eyewash stations and safe orkstation location. requirements are to be considere on, use and care of personal pro contact with skin, eyes and cloth breathing dust or spray mist.	ed in regard of the otective equipment.
PHYSICAL AND CHEMICAL Physical state	<b>PROPERTIE</b> : crystal	-	
Colour	: white		
Odour	: odourl	ess	
рН	: 7.0 - 7	10.0 at , 20 °C	
Melting point/range	: 100 ° Note:	C Elimination of water of crystallisa	tion
Boiling point/boiling range	: Note:	no data available	
Flash point	: Note:	Not applicable	
Evaporation rate	: Note:	no data available	
Lower explosion limit	: Note:	Not applicable	
Upper explosion limit	: Note:	Not applicable	
Vapour pressure	: Note:	no data available	
Vapour density	: Note:	no data available	
Density	: ca. 2.7	700 g/cm3 at 20 °C	



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Version 1.4 Issuing date 07/22/2016 Print Date 08/03/2021 Revision Date 05/22/2020 Water solubility : 840.0 g/l at 20 °C Partition coefficient: n-: Note: no data available octanol/water Ignition temperature : Note: Not applicable Decomposition temperature : 100 °C Note: Loss of water of crystallization on heating. : Note: no data available Viscosity, dynamic Viscosity, kinematic : Note: no data available Molecular weight : 241.95 g/mol Bulk density : ca. 930 kg/m3 **10. STABILITY AND REACTIVITY** Chemical stability : Stable under recommended storage conditions. Possibility of hazardous : Hazardous polymerisation does not occur. reactions Conditions to avoid : No information available. Incompatible materials to : No information available. avoid **11. TOXICOLOGICAL INFORMATION** Acute oral toxicity : LD50: 4,233 mg/kg Species: Rat Method: OECD Test Guideline 401 Test substance: anhydrous substance Acute inhalation toxicity : LC50: > 1.93 mg/l , dust/mist 5/10



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	Exposure time: 4 h Species: Rat Test substance: anhydrous substance Note: No deaths
Acute dermal toxicity	<ul> <li>LD50: &gt; 2,000 mg/kg</li> <li>Species: Rat</li> <li>Method: OECD Test Guideline 402</li> <li>Test substance: anhydrous substance</li> <li>Note: No deaths</li> </ul>
Skin irritation	: Species: Rabbit Classification: non-irritant Method: OECD Test Guideline 404 Test substance:anhydrous substance
Eye irritation	: Species: Rabbit Result: slight irritation Method: OECD Test Guideline 405 Test substance: anhydrous substance
Sensitisation	<ul> <li>Maximisation Test Species: Guinea pig Classification: non-sensitizing Test substance: anhydrous substance Method: OECD Test Guideline 406</li> </ul>
Genotoxicity in vitro	<ul> <li>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</li> </ul>
	: Test Method: Ames test Metabolic activation: with and without metabolic activation Result: negative Method: OECD Test Guideline 471
Aspiration toxicity	: Not applicable
Teratogenicity	: Species: RatApplication Route: Oral 6/10

SAFETY DATA SHEET			<b>loneywell</b> <i>Fluka</i> "
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	NOAE	EL: >40 mg/kg bw/d EL: >40 mg/kg bw/d od: OECD Test Guideline 414	
12. ECOLOGICAL INFORMATI	ON		
Toxicity			
Toxicity to fish	LC50: Expos Specio	static test 610 mg/l sure time: 96 h es: Pimephales promelas (fathea od: OECD Test Guideline 203	ad minnow)
Toxicity to daphnia and othe aquatic invertebrates	Expos Speci	: 1,680 mg/l sure time: 48 h es: Daphnia (water flea) od: OECD Test Guideline 202	
Toxicity to algae	: Note:	no data available	
Toxicity to bacteria	EC50 Expos Specia Test s	ration inhibition : 820 mg/l sure time: 3 h es: activated sludge substance: REACH dossier "read od: OECD 209	-across"
Persistence and degradab	ility		
Biodegradability		The methods for determining bio able to inorganic substances.	degradability are not
13. DISPOSAL CONSIDERATIO	ONS		
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Disposal methods	: In acc	cordance with local and national r	egulations.
14. TRANSPORT INFORMATIO	N		
<b>ADR</b> Not dangerous goods			
IATA Not dangerous goods			
IMDG Not dangerous goods			
<b>RID</b> Not dangerous goods			
15. REGULATORY INFORMATI	ON		
National regulatory inform	ation		
<b>National regulatory inform</b> Substances Subject to be Notified Names JP MSDSD	:	old Concentration: 1 % wt 603	
Substances Subject to be Notified Names	:		
Substances Subject to be Notified Names JP MSDSD	: Thresh : Not re : Listed Sodiu	elevant	0-6
Substances Subject to be Notified Names JP MSDSD Fire Service Law Japan. ISHL Hazardous Substances Labeling Requirements (ISHL Art. 57, Enforcement Order Art. 18, Enforcement Rule Art. 30 & 31, as amended through 6 April 2018) Japan. SDS and Risk Assessment Requirements (ISHL Art. 57-2 and 57-3, Enforcement Order Art. 18-2 Enforcement Rule Art. 34-2	: Thresh : Not re : Listed Sodiu : Listed Sodiu	elevant I m molybdate-2-hydrate 10102-4	
Substances Subject to be Notified Names JP MSDSD Fire Service Law Japan. ISHL Hazardous Substances Labeling Requirements (ISHL Art. 57, Enforcement Order Art. 18, Enforcement Rule Art. 30 & 31, as amended through 6 April 2018) Japan. SDS and Risk Assessment Requirements (ISHL Art. 57-2 and 57-3, Enforcement Order Art. 18-2 Enforcement Rule Art. 34-2 and 34-2-2), as amended Poisonous and Deleterious	: Thresh : Not re : Listed Sodiu : Listed Sodiu	elevant 1 m molybdate-2-hydrate 10102-4 1 m molybdate-2-hydrate 10102-4	
Substances Subject to be Notified Names JP MSDSD Fire Service Law Japan. ISHL Hazardous Substances Labeling Requirements (ISHL Art. 57, Enforcement Order Art. 18, Enforcement Rule Art. 30 & 31, as amended through 6 April 2018) Japan. SDS and Risk Assessment Requirements (ISHL Art. 57-2 and 57-3, Enforcement Order Art. 18-2 Enforcement Rule Art. 34-2 and 34-2-2), as amended	: Thresh : Not re : Listec Sodiu : Listec Sodiu 2, : Not re : Class	elevant 1 m molybdate-2-hydrate 10102-4 1 m molybdate-2-hydrate 10102-4	0-6



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Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof	Sodium molybdate-2-hydrate 10102-40-6				
Other international regulations					
Notification status 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 (IECSC)	On the inventory, or in compliance with the inventory				
New Zealand. Inventory of : Chemicals (NZIoC), as published by ERMA New Zealand	On the inventory, or in compliance with the inventory				
16. OTHER INFORMATION					
Health hazard :	HMIS III NFPA 1 1 1 1 0 9/10				



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Instability

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Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

#### **Further information**

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.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group