

Sodium molybdate dihydrate

331058-500G

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. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Not a hazardous substance or mixture according to the Globally Harmonised System (GHS).

GHS Label elements, including precautionary statements

Precautionary statements : Prevention:

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. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : MoNa2O4 · 2H2O



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Chemical nature : Substance

Chemical nameCAS-No.ConcentrationSodium molybdate-2-hydrate10102-40-6>=90.00 - <=100.00 %</td>

Sodium molybdate-2-hydrate Sodium molybdate-2-hydrate

4. FIRST AID MEASURES

General advice : First aider needs to protect himself.

Move out of dangerous area.

Take off all contaminated clothing immediately.

Inhalation : 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.

Notes to physician : Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

Foam

Carbon dioxide (CO2)

Dry powder

Specific hazards during

firefighting

: Hazardous decomposition products formed under fire

conditions.

Special protective equipment

for firefighters

: Wear an approved positive pressure self-contained breathing

apparatus in addition to standard fire fighting gear.

Further information : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and

: Provide adequate ventilation.

Avoid dust formation.



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emergency procedures

Environmental precautions : Should not be released into the environment.

Methods and materials for containment and cleaning up

: Sweep up and shovel into suitable containers for disposal.

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

: Store in original container.

Keep containers tightly closed in a dry, cool and well-

ventilated place.

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.



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Protective measures : Ensure that eyewash stations and safety showers are close to

the workstation location.

Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.

Avoid contact with skin, eyes and clothing.

Avoid breathing dust or spray mist.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : crystalline

Colour : white

Odour : odourless

pH : 7.0 - 10.0 at , 20 °C

Melting point/range : 100 °C

Note: Elimination of water of crystallisation

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. 2.700 g/cm3 at 20 °C



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Water solubility : 840.0 g/l at 20 °C

Partition coefficient: n-

octanol/water

: Note: no data available

Ignition temperature : Note: Not applicable

Decomposition temperature : 100 °C

Note: Loss of water of crystallization on heating.

Viscosity, dynamic : Note: no data available

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

reactions

: Hazardous polymerisation does not occur.

Conditions to avoid : No information available.

Incompatible materials to

avoid

: No information available.

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



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Exposure time: 4 h

Species: Rat

Test substance: anhydrous substance

Note: No deaths

Acute dermal toxicity : LD50: > 2,000 mg/kg

Species: Rat

Method: OECD Test Guideline 402 Test substance: anhydrous substance

Note: No deaths

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 : Maximisation Test

Species: Guinea pig

Classification: non-sensitizing

Test substance: anhydrous substance Method: OECD Test Guideline 406

Genotoxicity in vitro : 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

Aspiration toxicity : Not applicable

Teratogenicity : Species: RatApplication Route: Oral



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> NOAEL: >40 mg/kg bw/d NOAEL: >40 mg/kg bw/d

Method: OECD Test Guideline 414

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish : semi-static test

> LC50: 610 mg/l Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

Method: OECD Test Guideline 203

Toxicity to daphnia and other : LC50: 1,680 mg/l

aquatic invertebrates

Exposure time: 48 h

Species: Daphnia (water flea) Method: OECD Test Guideline 202

Toxicity to algae : Note: no data available

Toxicity to bacteria : Respiration inhibition

EC50: 820 mg/l Exposure time: 3 h Species: activated sludge

Test substance: REACH dossier "read-across"

Method: OECD 209

Persistence and degradability

: Note: The methods for determining biodegradability are not Biodegradability

applicable to inorganic substances.

13. DISPOSAL CONSIDERATIONS



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Disposal methods : In accordance with local and national regulations.

14. TRANSPORT INFORMATION

ADR

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

RID

Not dangerous goods

15. REGULATORY INFORMATION

National regulatory information

Substances Subject to be

Notified Names JP MSDSD

Threshold Concentration: 1 % wt 603

Fire Service Law : Not relevant

Japan. ISHL Hazardous : Listed

Substances Labeling Sodium molybdate-2-hydrate 10102-40-6 Requirements (ISHL Art. 57,

Enforcement Order Art. 18, Enforcement Rule Art. 30 &

31, as amended through 6

April 2018)

Japan. SDS and Risk : Listed

Assessment Requirements Sodium molybdate-2-hydrate 10102-40-6 (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

Substances Control Law

: Not relevant

Act on Confirmation, etc. of : Class I Designated Chemical Substances

Release Amounts of Specific 453



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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

(Notification and Assessment) Act

Australia. Industrial Chemical : 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

HMIS III **NFPA** Health hazard : 1 Flammability : 1

: 0 Physical Hazard



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Instability : 0

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