

Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 with amendments



Oligo Sodium Molybdate 39.5%

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

1.1. Product identifier

Trade name: Van Iperen Oligo Sodium Molybdate 39.5%
CAS: 10102-40-6
EC: 231-551-7
REACH Registration number: 01-2119489495-21-xxxx

1.2. Relevant identified uses of the substance or mixture and uses advised against

Micronutrients in feed additives
Corrosion Inhibitor
Manufacture of pigments
Industrial Detergent for metal surface treatment
Cleaning & Maintenance material
Use as coolant/antifreeze/heat transfer fluid
Metal working fluids
Industrial formulation & use of lubrication additives, lubricants and greases
Manufacture of enamels frits, ceramics
Manufacture & Use of Water Treatment Chemicals, inc. water softner
Polymer preparations & compounds
Industrial chemical products such as pH regulator, flocculants, precipitants, neutralization agents
Extraction agents
Photochemicals
Manufacture and Use of Catalysts, inc. Regeneration & Recycling

Uses advised against no data available

1.3. Details of the supplier of the safety data sheet

Van Iperen International BV
Smidsweg 24
3273 LK Westmaas - Nederland
T +31 (0) 186 578 888 - F +31 (0) 186 573 452
info@iperen.com - www.vaniperen.com

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number
Ireland (Republic of)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The classification of the substance according to Regulation (EC) No 1272/2008

Not classified as dangerous.

The classification of the substance according to Directive 67/548/EEC

Not classified as dangerous.

Hazards for man and for the environment

May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if swallowed. May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation.

Hazardous physical and chemical properties

None

2.2. Label elements

In accordance with Regulation (EC) No 1272/2008:

Hazard pictogram(s) : not applicable

Signal word(s) : not applicable

Hazard statement(s) : not applicable

Precautionary statement(s) : not applicable.

2.3. Other hazards

not apply to annex XIII of REACH

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SECTION 3: Composition/information on ingredients

3.1. Substances

Product name : Sodium molybdate 2-hydrate
Formula : $\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O}$
Molecular weight : 241,95 g/mol

No.	Concentration	Name	CAS No.	EC No.	Index No.
1.	99,99%	sodium molybdate 2-hydrate	10102-40-6	231-551-7	-

SECTION 4: First aid measures

4.1. Description of first aid measures

If inhaled

Remove to fresh air. If it's necessary – provide artificial respiration or give oxygen. Seek medical attention for any breathing difficulty.

In case of skin contact

Remove contaminated clothing. Mechanically clean contaminated skin and then wash with water and soft soap. Get medical attention. Wash clothing before reuse.

In case of eye contact

Rinse contaminated eyes with eyelids widely opened with copious amounts of lukewarm water for 15-20 minutes. Consult a ophthalmologist.

If swallowed

Make victim drink plenty of water. Induce vomiting. Seek medical attention.

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

Molybdenum(VI) intoxication: diarrhoea, anaemia (decreased haemoglobin concentration in the blood), fatigue. May have toxic effects on liver and kidneys.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

This product does not burn. Use extinguishing media suited to the materials that are burning.

Suitable extinguishing media: carbon dioxide fire extinguisher; dry-chemical fire extinguisher ABC or BC; foam extinguisher;

Unsuitable extinguishing media: not defined, not apply compact water streams to the surface of the burning substance

5.2 Special hazards arising from the substance

Substance itself does not burn.

5.3 Advice for firefighters

Special protective equipment for fire-fighters: boots, overalls, gloves, eye and face protection and breathing apparatus. Wear self contained breathing apparatus for fire fighting.

Attention! Not allow enter to ground water, waste water or drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas. Wear suitable protective equipment (see section 8) to prevent any contamination of skin, eyes and personal clothing, in case of dustiness – wear respiratory system protection.

Remember about limited time of molecular filters protective work (molecular filter is marked with white colour and symbol P2).

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided., contaminated area should be isolated from an environment. Keeping away from drains, surface and ground water. In case of water contamination inform proper authorities. Contaminated soil must be changed. Used packagings should be transferred to companies authorised to their processing.

6.3 Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Appropriate containment techniques may include:

- a) bunding, covering of drains
- b) capping procedures

Appropriate clean-up procedures may include:

- a) neutralisation techniques
- b) decontamination techniques
- c) adsorbent materials
- d) cleaning techniques
- e) vaccuming techniques
- f) equipment required for containment/ clean up (include the use of non sparking tools and equipment)

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-never use: not defined

6.4 Reference to other sections

-see also section 8 and 13 MSDS

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations: Avoid contact with skin and eyes. Avoid formation of dust. Provide appropriate exhaust ventilation at places where dust is formed. Containment and measures to prevent fire as well as dust generation, prevent handling of incompatible substances, reduce the release of the substance to environment, avoid spills and keep away from drains

Advice on general occupational hygiene:

When handling sodium molybdate 2-hydrate not eat, drink and smoke in work areas, wash hand after use, remove contaminated clothing and protective equipment before entering eating areas.

7.2 Conditions for safe storage, including any incompatibilities

In original, properly marked containers, in store house furnished with ventilation installation. Keep container tightly closed in a dry and wellventilated place. Storage temperature

7.3 Specific end use(s) not defined

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

PEL 4 mg/m³(molybdenum and its compounds as Mo)

TWA 10 mg/m³(molybdenum and its compounds as Mo)

TLV - C not established

PEB not established

8.2 Exposure control

-appropriate engineering controls

Ventilation at the workplaces in building. Provide eye safety shower near the workplaces.

-individual protection measures, such as personal protective equipment

a) eye/ face protection

Recommended, safety glasses. Use equipment for eye protection tested and approved under standard EN 166(EU).

b) skin protection

-hand protection

Recommended, gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

-other

Choose body protection according to the amount and concentration of the dangerous substance at the work place i.e.: gauntlets, boots, body-suit

c) respiratory protection

Protective masks with molecular filter P2. Required when dusts are generated. Use respirators and components tested and approved under appropriate government standards such CEN (EU).

d) thermal hazards: none

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands and face before breaks and immediately after handling the product. Immediately change contaminated clothing. Apply skin protective barrier cream.

-environmental exposure controls

Immediately remove all waste – keep in tightly sealed, marked containers

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance:		
Physical state		solid, crystals
Colour		white
b) Odour		odourless
c) Odour threshold		no data available
d) pH 50 g/l H ₂ O at 20°C		7,9-10,3
e) Melting point/ freezing point	[°C]	130(release of crystalline water) 683(decomposition)
f) Initial boiling point and boiling range	[°C]	no data available
g) Flash point		not applicable – not combustible
h) Evaporation range		not applicable – solid
i) Flammability (solid, gas)		no data available
j) Upper/lower flammability or explosive limits		no data available
k) Vapour pressure, 25°C	[hPa]	no data available
l) Vapour density		no data available
m) Relative density	[g/cm ³]	3,6
n) Solubility	[g/dm ³]	840
o) Partition coefficient: n-octanol/water		no data available
p) Auto-ignition temperature		no data available
q) Decomposition temperature	[°C]	683
r) Viscosity		no data available
s) Explosive properties		no explosive properties
t) Oxidising properties		no data available

9.2 Other information

Not defined

SECTION 10: Stability and reactivity

10.1 Reactivity

Reactive substance

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No information available.

10.4 Conditions to avoid

Moisture, heating. Releases water of crystallization when heated.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

No information available.

SECTION 11: Toxicological information

a) Acute toxicity

for anhydrous substance

LD50 (oral rat) – 4233 mg/kg

LD50 (dermal rat) – >2,000 mg/kg

b) Skin corrosion/ irritation

no quantitative data available

May cause skin irritation.

c) Serious eye damage/ irritation

no quantitative data available

May cause eye irritation.

d) Respiratory or skin sensitization

no quantitative data available

e) Germ cell mutagenicity

no data available

f) Carcinogenicity

IARC – International Agency for Research on Cancer

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.

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g) Reproductive toxicity

no data available

h) STOT- single exposure

no data available

i) STOT- repeated exposure

no data available

j) Aspiration hazard

no data available

SECTION 12: Ecological information

12.1 Toxicity

-toxicity for fish

LC50 7600 mg/L 96h *Oncorhynchus mykiss*

-toxicity for daphnia

EC50 330 mg/L 48h *Daphnia magna*

-toxicity for bacteria

IC50 >100 mg/L 72h *Selenastrum capricornutum*

EC10 50mg/L 18h *Pseudomonas putida*

12.2 Persistence and degradability

Solid substance – method of biological decomposition definition is not applicable for inorganic substances

12.3 Bioaccumulative potential

Kow- octanol-water partition coefficient No data available

BCF- bioconcentration factor No data available

12.4 Mobility in soil

High- because of good solubility in water

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Do not allow to enter waters, waste water or soil!

SECTION 13: Disposal considerations

13.1 Waste treatment methods

a) Waste treatment of the substance and contaminated packaging

-incineration, recycling, landfilling

Contaminated product should be submitted to manufacturer for cleaning or processing – in other cases it should be treated as chemical waste and should act in accordance with local law regulations.

Packagings

Emptied disposable packagings should be submitted to authorised recipient of wastes.

SECTION 14: Transport information

Not classified as dangerous in accordance to European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

14.1 UN number

NOT APPLICABLE

14.2 UN proper shipping name

NOT APPLICABLE

14.3 Transport hazard class(es)

NOT APPLICABLE

14.4 Packing group

NOT APPLICABLE

14.5 Environmental hazards

NOT APPLICABLE

14.6 Special precautions for user

NOT APPLICABLE

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

NOT APPLICABLE

SECTION 15: Regulatory information

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

GENERALLY EU MSDS - NO COUNTRY SPECIFIC DATA

15.2 Chemical safety assessment

no data available

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SECTION 16: Other information

a) revised safety data sheet- changes

IDENTIFIED USES INCLUDED , registration number REACH

Data updating is associated with the change in regulations in respect to chemical substances and preparations – GHS.

b) legend to abbreviations and acronyms used in the safety data sheet

PEL- Permissible exposure limit

TWA- Time weighted average

TLV-C-Threshold limit value- Ceiling Limit

CAS-Chemical Abstract Service

vPvB-very Persistent and very Bioaccumulative

PBT- Persistent, Bioaccumulative and Toxic

EC No. -is a unique seven-digit identifier that is assigned to chemical substances for regulatory purposes within the European Union by the regulatory authorities.

LD50-lethal dose, the point where 50% of test subjects exposed would die

LC50-lethal concentration, the point where 50% of test subjects exposed would die

EC50-half maximal effective concentration

UN number- is four-digit number that identify hazardous substances

ATEmix-Acute Toxicity Estimates for mixture

PEB-permitted exposure for a biological material

c) key literature references and sources for data

At customer request a list of source materials, on the basis of which safety data sheet was prepared, is delivered.

d) mixtures- methods of evaluating information referred to in Article 9 of Regulation (EC) No 1272/2008 used for classification

not apply

e) list of relevant R phrases, hazard statements, safety phrases and/or precautionary statements- full text

not apply

f) training appropriate for workers

Training in respect to handling of hazardous chemical substances, position training- workers familiar with contents of present Safety Data Sheet

Company disclaimer

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 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 proceed, unless specified in the text.