

SAFETY DATA SHEET

MOLYBDENUM TRIOXIDE AR

1. Identification of the substance/preparation and of the company or firm

1.1 Identification of the substance or preparation:

Catalogue no. : KA332

Product name : Molybdenum Trioxide AR

Synonym : Molybdenum (VI) oxide

1.2 Use of the substance/preparation:

For laboratory utilisation, analysis, research and fine chemistry.

1.3 Identification of the company or firm:

Elago Enterprises Pty Ltd, 5 The Cloisters, Cherrybrook, N.S.W. 2126, Australia

Tel no. (61) 2 98998169

Fax no. (61) 2 98997976

1.4 Emergency telephone:

(61) 2 98998169 (9:00am - 5:00 pm) [Office hours]

2. Identification of dangers

2.1 Classification of the substance.

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Carcinogenicity, Category 2 : Suspected of causing cancer

Specific target organ toxicity following a single exposure, respiratory tract irritation, Category 3 :

May cause respiratory irritation.

Eye irritation, Category 2A: Causes serious eye irritation.

2.2 Label elements.

Hazard pictograms



Signal words : Warning.

Hazard statements (H) :

H319 : Causes serious eye irritation.

H335 : May cause respiratory irritation.

H351 : Suspected of causing cancer.

Precautionary statements (P) :

P201 : Obtain special instructions before use.

P202 : Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust, fume, gas, mist, vapours, spray.

P271 : Use only outdoors or in a well-ventilated area.

P281 : Use personal protective equipment as required.

P304+P340 : IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313 : If exposed or concerned: Get medical advice, attention.

P337+P313 : If eye irritation persists: Get medical advice, attention.

P405 : Store locked up.

2.3 Other hazards.

None known.

3. Composition/information on ingredients

3.1 Substance / Preparation.

Molybdenum trioxide

Formular: MoO₃

CAS No : 1313-27-5

Molecular weight : 143.94

Contains no other components or impurities which will influence the classification of the product.

3.2 Mixture.

Not applicable.

4. First-aid measures

4.1 Description of first aid measures.

Inhaling: Take the person out into the fresh air. If unconscious, seek medical assistance.

- Skin contact: Remove contaminated clothing. Wash skin with water and soap or a suitable skin cleaner.
NEVER use solvents or thinners.
- Eyes: Wash with plenty of water, keeping eyelids open. Seek medical assistance.
- Ingestion: Never induce vomiting. Seek immediate medical assistance.
- 4.2 Most important symptoms and effects, both acute and delayed.
Irritant Product, can causes serious eye irritation and respiratory irritation. Suspected of causing cancer
- 4.3 Indication of any immediate medical attention and special treatment needed.
In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.
-

5. Fire-fighting measures

- 5.1 Suitable extinguishing media.
Recommended extinguishing methods: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
- 5.2 Special hazards arising from the substance.
Special risks: Under fire conditions, hazardous fumes will be present. Exposure to combustion or decomposition products can be harmful to your health.
- 5.3 Advice for firefighters.
Do not enter fire area without proper protective equipment, including respiratory protection.
Fire protection equipment: According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and gloves.
-

6. Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures.
For exposure control and individual protection measures, see section 8.
- 6.2 Environmental precautions.
Do not allow it to enter the drainage system. Avoid pollution of the soil, water supplies and drains.
- 6.3 Methods and material for containment and cleaning up.
The contaminated area should be immediately cleaned with an appropriate de-contaminator. Store away from other materials.
- 6.4 Reference to other sections.
For exposure control and individual protection measures, see section 8.
For later elimination of waste, follow the recommendations under section 13.
-

7. Handling and storage

- 7.1 Precautions for safe handling.
Ensure good ventilation and renewal of the air in the premises. Avoid breathing dust, fume, gas, mist, vapours, spray.
Do not eat, drink or smoke when using this product. Keep the product in containers made of a material identical to the original.
- 7.2 Conditions for safe storage, including any incompatibilities.
Well sealed containers. Dry atmosphere. Away from sources of ignition and heat. Prevent the entry of non-authorised persons.
- 7.3 Specific end use(s).
None.
-

8. Exposure controls/personal protection

- 8.1 Control parameters.
The product does NOT contain substances with Professional Exposure Environmental Limit Values.
The product does NOT contain substances with Biological Limit Values.
- 8.2 Exposure controls.
Personal protection : Avoid all unnecessary exposure.
Respiratory protection : Wear approved mask.
Hand protection : Wear protective gloves.
Eye protection : Chemical goggles or safety glasses.
Hygiene measures : Remove contaminated clothing. Wash hands before breaks and when the job is done.
-

9. Physical and chemical properties

- 9.1 Information on basic physical and chemical properties.
- | | |
|------------------|---|
| Appearance: | Solid. |
| Colour: | Fine light bluish grey to white or yellow powder. |
| Odour: | Odorless. |
| Odour threshold: | No data available. |
| pH value: | No data available. |
| Melting Point: | 795 °C |

| | |
|--|--------------------|
| Boiling Point: | No data available. |
| Flash point: | No data available. |
| Flammability (solid, gas) : | No data available. |
| Evaporation rate : | No data available. |
| Vapour pressure: | No data available. |
| Vapour density : | No data available. |
| Lower Explosive Limit: | No data available. |
| Upper Explosive Limit: | No data available. |
| Solubility: | 0.5 g/l @ 20°C |
| Density: | No data available. |
| Relative density | No data available. |
| Partition coefficient (n-octanol/water): | No data available. |
| Viscosity: | No data available. |
| Explosive properties: | No data available. |
| Oxidizing properties: | No data available. |

9.2 Other information.

None.

10. Stability and reactivity

10.1 Reactivity.

The product does not present hazards by their reactivity.

10.2 Chemical stability.

Unstable in contact with Bases.

10.3 Possibility of hazardous reactions.

Neutralization can occur on contact with bases.

10.4 Conditions to avoid.

Avoid contact with bases and incompatible materials.

10.5 Incompatible materials.

Incompatible with bases.

10.6 Hazardous decomposition products.

Depending on conditions of use, can be generated corrosive vapors or gases.

11. Toxicological information

11.1 Information on toxicological effects.

Acute toxicity. LD50 oral rat : 2689mg/kg
LD50 dermal rat : 2000mg/kg

Inhalation: Based on available data, the classification criteria are not met.

Dermal: Based on available data, the classification criteria are not met.

Ingestion: Based on available data, the classification criteria are not met.

Corrosion: Based on available data, the classification criteria are not met.

Irritation: Causes serious eye damage.

Sensitization: Based on available data, the classification criteria are not met.

Mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Suspected of causing cancer.

Toxic for reproduction: Based on available data, the classification criteria are not met.

STOT-single exposure: Specific target organ toxicity following a single exposure, Category 3 : May cause respiratory irritation.

STOT-repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

12. Ecological information

12.1 Toxicity.

Not established.

12.2 Persistence and Degradability.

Biodegradable.

12.3 Bioaccumulative potential.

Not established.

12.4 Mobility in soil

Not established.

12.5 Results of PBT and vPvB assessment.

The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6 Other adverse effects.

Discharge into the environment must be avoided.

13. Disposal considerations

13.1 Waste treatment methods.

Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.

14. Transport information

14.1 UN number.

UN No: UN3288

14.2 UN proper shipping name.

TOXIC SOLID, INORGANIC, N.O.S

14.3 Transport hazard class(es).

Class(es): 6.1

14.4 Packing group.

Packing group: III

14.5 Environmental hazards.

Marine pollutant: No.

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

15. Regulatory information

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

Ensure all national/local regulations are observed.

The product is not affected by REACH Restrictions - Annex XVII

The product is not affected by REACH Authorisation - Annex XIV

15.2 Chemical safety assessment.

Not Scheduled.

16. Other Information

Abbreviations and acronyms :

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative.

Sources of key data used.

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Review number and date.

v. 1.0

Date published.

14-Apr-2016

Further information.

None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This MSDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS information may not be applicable