

SAFETY DATA SHEET

POTASSIUM PERMANGANATE AR

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

1.1 Identification of the substance or preparation:

Catalogue no. : KA414

Product name : Potassium permanganate AR

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

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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)

Acute toxicity, Oral, Category 4: Harmful if swallowed.

Hazardous to the aquatic environment, Chronic aquatic toxicity, Category 1: Very toxic to aquatic life with long lasting effects.

Oxidizing solids, Category 2: May intensify fire; oxidiser.

2.2 Label elements.

Hazard pictograms



Signal words : Danger.

Hazard statements (H) :

H272 : May intensify fire; oxidiser.

H302 : Harmful if swallowed.

H410 : Very toxic to aquatic life with long lasting effects.

Precautionary statements (P) :

P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 : Keep/Store away from clothing/combustible materials.

P221 : Take any precaution to avoid mixing with combustibles.

P264 : Wash thoroughly after handling.

P270 : Do not eat, drink or smoke when using this product

P501 : Dispose of contents / container according to the regulation.

2.3 Other hazards.

None known.

3. Composition/information on ingredients

3.1 Substance / Preparation.

Potassium permanganate

Formular: KMnO_4

CAS No : 7722-64-7

Molecular weight : 158.04

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 breathing is irregular or stops, perform artificial respiration. Seek medical assistance.

Skin contact: Wash with plenty of water. Remove contaminated clothing and seek medical assistance.

Eyes: Wash with plenty of water, keeping eyelids open. Seek immediate medical assistance.

Ingestion: Never induce vomiting. Rinse mouth thoroughly with water immediately. Seek immediate medical attention.

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

Harmful Product, prolonged exposure due to inhalation may cause anaesthetic effects and the need for immediate medical assistance.

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.

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.

Product dangerous for the environment. 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. Collect spillage.

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.

7.2 Conditions for safe storage, including any incompatibilities.

Well sealed containers. In well ventilated premises. Away from sources of ignition and heat. Keep away from oxidising agents and from highly acidic or alkaline materials.

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.

Others : When using, do not eat, drink or smoke.

9. Physical and chemical properties

Appearance:	Solid.
Colour:	Dark brown to violet crystals.White crystals.
Odour:	Odourless.
pH value:	7-9
Melting Point:	50 °C
Boiling Point:	No data available.
Flash point:	No data available.
Flammability (solid, gas) :	No data available.
Lower explosion limit:	No data available.
Upper explosion limit:	No data available.
Evaporation rate :	No data available.
Vapour pressure:	< 0.01 hPa (20 °C).
Vapour density :	No data available.
Solubility :	65 g/l (20 °C).

Relative density :	2.70 (20/4)
Partition coefficient: n-octanol/water:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	> 240 °C
Viscosity :	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

10. Stability and reactivity

10.1 Reactivity.

The product does not present hazards by their reactivity.

10.2 Chemical stability.

Stable under the recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions.

May intensify fire, oxidiser.

10.4 Conditions to avoid.

Avoid contact with incompatible materials.

10.5 Incompatible materials.

Keep away from bases and flammable and corrosive materials.

10.6 Hazardous decomposition products.

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

11. Toxicological information

11.1 Acute toxicity:

LD50 oral rat : 750 mg/kg

Inhalation:

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

Dermal:

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

Ingestion:

Harmful if swallowed.

Corrosion:

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

Irritation:

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

Sensitization:

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

Mutagenicity:

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

Carcinogenicity:

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

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

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

12. Ecological information

12.1 Toxicity.

Toxicity to fish.

LC50 Ictalurus catus : 0.1 mg/l; 96 h

Toxicity to Aquatic invertebrates.

EC50 Daphnia magna : 0.056 mg/l; 48 h

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.

No information is available about other adverse effects for the environment.

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: UN1490

- 14.2 UN proper shipping name.
ADR: UN 1490, POTASSIUM PERMANGANATE, 5.1, PG II, (E)
IMDG: UN 1490, POTASSIUM PERMANGANATE, 5.1, PG II
ICAO: UN 1490, POTASSIUM PERMANGANATE, 5.1, PG II
- 14.3 Transport hazard class(es).
Class : 5.1
- 14.4 Packing group.
Packing group: II
- 14.5 Environmental hazards.
Marine pollutant: Yes.
- Dangerous for the environment.
- 14.6 Special precautions for user.
Labels: 5.1
- Hazard number: 50
ADR LQ: 1kg
- Provisions concerning carriage in bulk ADR:
Transport by ship, FEm – Emergency sheets (F – Fire, S - Spills): F-H, S-Q
Proceed in accordance with point 6.
IMDG Code segregation group: 12 Nitrites and their mixtures
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.
The product is not transported in bulk.

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.
EC50: Effective concentration, 50%
IC50: Inhibitory Concentration, 50%
LC50: Lethal concentration, 50%.
LD50: Lethal dose, 50%.
Log Pow: Logarithm of the partition octanol-water.
IATA: International Air Transport Association.
ICAO: International Civil Aviation Organization.
IMDG: International Maritime Code for Dangerous Goods.
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.

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Further information.

None.

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

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