Camlab Limited - Material Safety Data Sheet

1. Identification

Product Code CC/0548-CO

Product Name POTASSIUM PERMANGANATE pure

Molecular Formula KMnO₄ =158.03

CAS Number 7722-64-7

Supplier:



CAMLAB LIMITED

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24hr 112 (Have this document to hand)

2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Potassium permanganate	7722-64-7	231-760-3	> 99.0%	O Xn N : R8,R22,R50/53	N/A

3. Hazards Identification







Contact with combustible material may cause fire. Harmful if swallowed. Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

4. First Aid Measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes,

holding the eye open. If discomfort persists ${\tt OBTAIN}$ ${\tt MEDICAL}$

ATTENTION.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash

before re-use. If discomfort persists OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure.

Ingestion If conscious give plenty of water to drink. OBTAIN MEDICAL ATTENTION URGENTLY.

5. Fire Fighting Measures

Hazards Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-

fighters should wear protective clothing and breathing apparatus. May evolve toxic fumes if

involved in a fire.

Extinguishing

Media

Water spray, foam, dry powder or carbon dioxide.

Unsuitable

Nothing specified.

Media

6. Accidental Release Measures

Personal Use approved personal protective equipment. Do not allow general use of area until it is

Protection safe to do so.

6. Accidental Release Measures (continued)

Keep material out of sewers, storm drains, surface waters and soil. Notify the

Environmental Agency and local Environmental Health Officer if major spillage occurs.

Major Spillage Shovel/sweep up into container for removal Wash to drain with copious amounts of water.

Minor Spillage Wash to drain with copious amounts of water.

7. Storage & Handling

Handling Precautions Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended

limits.

Storage Conditions Store in a suitable area for oxidising agents. Keep well separated from acids, metals,

explosives, organic peroxides and ignitable materials. Do not store on wooden surfaces.

8.1 Workplace Exposure Limits

No prescribed exposure limits available

8.2 Personal Protection

Respiratory Use L.E.V. or natural ventilation to maintain dust concentrations below exposure limits. If

not, use a well maintained chemical cartridge respirator, or use self contained breathing

apparatus.

Use nitrile gloves or PVC gauntlets. Hands

Eyes Use chemical splash proof glasses or goggles.

Skin Avoid contact with skin. If skin contact or contamination of clothing is likely, protective

clothing must be worn.

9. Physical & Chemical Properties

Dark purple crystals with metallic sheen. Appearance

Odour Odourless. Ηα Not available Boiling point Not available Melting point 240.0 °C Flash point Not available Not available Upper Flammable Limit Lower Flammable Limit Not available Not available Auto Ignition

Explosive properties Not explosive as a single substance.

Oxidising Properties A strong oxidising agent.

Vapour Presure Not available Relative Density 2.7030 °C

Water Solubility 7%

10. Stability & Reactivity

Chemical Stability Stable under normal conditions but starts to decompose at 240C liberating oxygen.

Conditions to Avoid Do not allow to impregnate wood or other organic materials.

Materials to Avoid Reacts explosively with many substances including hydrochloric, sulphuric and acetic acids,

formaldehyde, solid reducing sugars, finely divided metals and organic nitrates. . Ignition

may occur on contact with dimethyl sulphoxide, glycerol, organic nitro compounds,

oxygenated organic compounds especially when mixed with nitric acid. Contact with wood may cause a fire if moist or subject to friction. Violent exotherms have also occurred with

hydrofluoric acid and hydrogen peroxide.

Decompose with release of flammable oxygen gas. May produce hazardous fumes if involved in Hazardous

Decomposition Products a fire.

11. Toxicological Information

Eyes Dilute solutions are mildly irritating to the eye. Concentrated solutions and crystals are

be extremely irritating to eyes and can cause chemical eye burns.

Skin Solutions may cause skin irritation whilst the solid may cause chemical burns.

LD50 Skin Not available

Ingestion may cause Ingestion of low to moderate amounts can result in burning in the

throat and gastro-intestinal effects such as ulceration, nausea, vomiting, diarrhoea and

constipation.

LD50 Ingest Not available

Inhalation High concentrations of vapour may produce irritation of the eyes, nose, throat and

respiratory tract.

Carcinogenicity No information is available.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects Gynaecological disturbances have been reported in women and sexual disfunction in test

animals.

12. Ecological

Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

13. Disposal Considerations

Disposal Methods

Do not dispose of as domestic waste. Mix with a reducing agent eg. sodium metabisulphite or thiosulphate or a ferrous salt. Dilute with water. A sulphite/ferrous salt requires the addition of 2M sulphuric acid to promote rapid reduction. Neutralise slurry with soda ash and wash to drain with lots of water.

Contaminated Packaging Wash out containers with water.

14. Transport Information

Proper Shipping Name Potassium Permanganate

UN Number 1490

UN Classification 5.1 Oxidising agent

Subsidiary Risk None

Flash Point Not available

Packing Group II
Transport Category 2
Marine pollutant No
ADR Hazard ID 50



15. Regulatory Information

Labelling Oxidising, Harmful, Dangerous for the Environment.

Classification
Label Symbols



Xn



N



Risk & safety Phrases

Contact with combustible material may cause fire. Harmful if swallowed. Very Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment. Keep out of reach of children. This material and/or its container must be disposed of as hazardous waste. Avoid release to the environment, refer to special instructions/safety data sheet.

EEC Number 231-760-3

16. Other Information

Document Information

This document has been prepared in accordance with directive 88/379/EEC.

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.

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