# Camlab Limited - Material Safety Data Sheet

#### 1. Identification

Product Code CC/1224-CH

Product Name MANGANESE DIOXIDE POWDER

Molecular Formula MnO<sub>2</sub> =86.94

CAS Number 1313-13-9

Supplier:

camlab

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(Have this document to hand)

# 2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Manganese and compounds (as Mn)	1313-13-9	215-202-6	80.0%	Xn : R20/22	WEL

#### 3. Hazards Identification



Harmful by inhalation and if swallowed.

#### 4. First Aid Measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open.

If discomfort persists OBTAIN MEDICAL ATTENTION.

Skin Thoroughly wash off skin with soap and water. Remove contaminated clothing immediately and

wash before re-use.

Inhalation Remove from exposure.

Ingestion Wash out the patients mouth thoroughly with water. In severe cases or if exposure has been

great, OBTAIN MEDICAL ATTENTION.

## 5. Fire Fighting Measures

Hazards Not combustible but assists burning. 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

Consider what other flammable materials are present and act accordingly.

Unsuitable Nothing specified.

Media

# 6. Accidental Release Measures

Personal Avoid breathing dust-wear respiratory protective equipment. Do not allow other people to

Protection enter area.

## 6. Accidental Release Measures (continued)

Environmental Notify the Environmental Agency and local Environmental Health Officer if major spillage

occurs.

Major Spillage Vacuum up into container for removal. Carefully remove material from vacuum cleaner and

transfer to sealable container for disposal. Carry out this operation under fume

extraction.

Minor Spillage Vacuum up into container for removal. Carefully remove material from vacuum cleaner and

transfer to sealable container for disposal. Carry out this operation under fume

extraction.

## 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.

#### 8.1 Workplace Exposure Limits

Workplace Exposure Limits Long Term (8hr TWA): - ppm 0.5000 mg m-3

Short Term (15min Period): - ppm - mg m-3

#### 8.2 Personal Protection

Respiratory If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.

Hands Wear gloves.

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 brown powder. Appearance Odour No specific odour. Not available Ηα Boiling point Not available 535.0 °C Melting point Not available Flash point Upper Flammable Limit Not available Lower Flammable Limit Not available Auto Ignition Not available

Explosive properties No.

Oxidising Properties A strong oxidising agent.

Vapour Presure Not available Relative Density 4.8000 °C

Water Solubility Insoluble in water.

## 10. Stability & Reactivity

Chemical Stability Stable under normal conditions

Conditions to Avoid No specific conditions.

Materials to Avoid Reacts with hydrochloric acid liberating toxic chlorine gas. A strong oxidiser, avoid

heating or friction with organic matter or other easily oxidisable substances eg. sulphur,

sulphide, phosphide or hypophosphites.

Hazardous May produce hazardous fumes if involved in a fire.

Decomposition Products

## 11. Toxicological Information

Eyes Presents no significant health hazard to the eyes.

Skin Presents no significant hazard by skin contact.

LD50 Skin Not available

Ingest Ingestion will cause similar effects to dust inhalation.

LD50 Ingest Not available

Inhalation Prolonged exposure to dust or fume concentrations above the occupational exposure limits

may lead to pronounced dizziness, nausea, loss of appetite and co-ordination. Absorbed manganese accumulates in the blood until a threshold value is exceeded after which further absorbtion leads to deposition in body organs. Chronic poisoning is difficult to diagnose but symptoms are weight and appetite loss, headaches, dizziness, somnolence indifference

and apathy.

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

# 12. Ecological

No specific environmental hazard.

# 13. Disposal Considerations

Disposal Methods Dispose of to a licensed land fill site.

Contaminated Packaging Use a licensed waste disposer.

# 14. Transport Information

Proper Shipping Name Oxidizing Solid, N.O.S.(Manganese Dioxide Powder)

UN Number 1479

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 Harmful.

Classification

Label Symbols Xn



Risk & safety Phrases Harmful by inhalation and if swallowed. Keep out of reach of children. Avoid contact with

eyes.

EEC Number 215-202-6

# 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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