

Camlab Limited – Material Safety Data Sheet


1. Identification

Product Code CC/0538-CO

Product Name **POTASSIUM HYDROXIDE PELLETS pure**

Molecular Formula **KOH =56.11**

CAS Number **1310-58-3**

Supplier: **CAMLAB LIMITED**
**Norman Way Industrial Estate
Over
Cambridge
England
CB4 5WE**

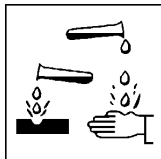
Phone **01954 233110**
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Emergency Telephone **08:00-17:00 01954 233110**
24hr 112
(Have this document to hand)

2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Potassium hydroxide	1310-58-3	215-181-3	> 85.0%	C : R22,R35	WEL

3. Hazards Identification



Harmful if swallowed. Causes severe burns.

4. First Aid Measures

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

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. If irritation persists or there is any sign of skin damage, seek IMMEDIATE MEDICAL ASSISTANCE

Inhalation Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. OBTAIN MEDICAL ATTENTION URGENTLY.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. OBTAIN MEDICAL ATTENTION URGENTLY.

5. Fire Fighting Measures

Hazards Presents no specific fire danger.

Extinguishing Media Consider what other flammable materials are present and act accordingly.

Unsuitable Media Do not allow water to come into direct contact with material.

6. Accidental Release Measures

Personal Protection	Avoid breathing dust. Use approved personal protective equipment. Evacuate area immediately. Do not allow other people to enter area. Do not allow general use of area until it is safe to do so.
Environmental	Keep non-neutralised 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	Contain spill with inert material. Neutralise with 5M hydrochloric acid. Wash area down with copious amounts of water.
Minor Spillage	Wash area down 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 dry place protected against moisture and water. Keep well separated from acids, metals, explosives, organic peroxides and ignitable materials.

8.1 Workplace Exposure Limits

8.2 Personal Protection

Respiratory	If process creates significant amounts of dust use L.E.V. or wear suitable dust mask.
Hands	Use nitrile gloves or PVC gauntlets.
Eyes	Use chemical full face shield.
Skin	If skin contact or contamination of clothing is likely, protective clothing must be worn. Wear PVC oversuit.

9. Physical & Chemical Properties

Appearance	White waxy beads.
Odour	Odourless.
pH	14 @ 20 °C
Boiling point	1320.0 °C
Melting point	360.0 °C
Flash point	Not available
Upper Flammable Limit	Not available
Lower Flammable Limit	Not available
Auto Ignition	Not available
Explosive properties	No.
Oxidising Properties	No.
Vapour Pressure	1 mm @ 719,C
Relative Density	2.0440 °C
Water Solubility	Completely soluble in water but reacts vigorously with much evolution of heat and fumes.

10. Stability & Reactivity

Chemical Stability	Stable under normal conditions
Conditions to Avoid	No specific conditions.
Materials to Avoid	Acids. Warm ammoniacal silver nitrate. Nitrobenzene. Sodium tetrahydroborate. Reacts with aluminium and zinc to produce extremely flammable hydrogen gas. Bromine. Chloroform and methanol.
Hazardous Decomposition Products	None unusual.

11. Toxicological Information

Eyes	The solid and solutions will cause severe burns. Damage can range from severe irritation and corneal scarring to permanent blindness.
Skin	Contact with the solid or solution will not lead to immediate pain but damage begins at once. Severe ulceration and scarring may occur in serious cases.
LD50 Skin	Not available
Ingest	Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus.
LD50 Ingest	Not available
Inhalation	Prolonged exposure to dust or fume concentrations above the occupational exposure limits will produce severe irritation of the eyes, nose, throat and respiratory tract.
Carcinogenicity	Has been implicated as a possible cause of cancer of the oesophagus after very prolonged exposure. Carcinogenesis in these cases may be due to tissue destruction and scar formation.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.
Other Information	The irritant effect provides warning that control of exposure is needed.

12. Ecological

Causes no biological oxygen consumption. Fish toxicity LD50 189mg/l. Toxic effects on fish and plankton, also harmful through shifting of pH

13. Disposal Considerations

Disposal Methods	Do not dispose of as domestic waste.
Contaminated Packaging	Clean out with a weak hydrochloric acid solution then wash out thoroughly with water.

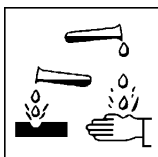
14. Transport Information

Proper Shipping Name	Potassium Hydroxide, Solid
UN Number	1813
UN Classification	8 Corrosive
Subsidiary Risk	None
Flash Point	Not available
Packing Group	II
Transport Category	2
Marine pollutant	No
ADR Hazard ID	80



15. Regulatory Information

Labelling	Corrosive.
Classification	

Label Symbols	C	
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Risk & safety Phrases	Harmful if swallowed. Causes severe burns. Keep locked up and out of reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label).
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EEC Number	215-181-3
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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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