Camlab Limited – Material Safety Data Sheet

1. Identification

Product Code **CC/1781-BA**

Product Name **POTASSIUM METAL (in paraffin liquid)**

Molecular Formula **K =39.10**

CAS Number **7440-09-7**

Supplier: **CAMLAB LIMITED**

Norman Way Industrial Estate
Over
Cambridge
England
CB4 5WE

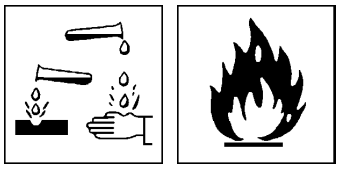
Phone **01954 233110**
Fax **01954 233101**

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	7440-09-7	231-132-9	> 99.9%	C F : R14/15,R34	N/A

3. Hazards Identification



Reacts violently with water, liberating highly flammable gases. Causes 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. OBTAIN MEDICAL ATTENTION URGENTLY.

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

Ingestion: If conscious give plenty of water to drink. Do not induce vomiting. 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: Dry graphite, soda ash, powdered sodium chloride or appropriate metal fire extinguishing powder.

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

6. Accidental Release Measures

Personal Protection	Use approved personal protective equipment. Ensure no contact with water, acids or other aqueous solutions is possible. Evacuate area immediately. Do not allow other people to enter area.
Enviromental	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
Minor Spillage	Shovel/sweep up into container for removal

7. Storage & Handling

Handling Precautions	Avoid contact with water, acids or other aqueous solutions.
	No specific precautions.
Storage Conditions	Store in a dry place protected against moisture and water. Keep well protected from ingress of water and well separated from acids

8.1 Workplace Exposure Limits

No prescribed exposure limits available

8.2 Personal Protection

Respiratory	Presents no significant inhalation health hazard.
Hands	Wear gloves.
Eyes	Use chemical splash proof glasses or goggles.
Skin	Avoid contact with skin.

9. Physical & Chemical Properties

Appearance	Soft silvery-white metal sticks, tarnishing readily on exposure to air.
Odour	No specific odour.
pH	Not available
Boiling point	760.0 °C
Melting point	64.0 °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 Presure	Negligible
Relative Density	0.8600 °C
Water Solubility	Reacts violently with water evolving a flammable gas which may explode or catch fire.

10. Stability & Reactivity

Chemical Stability	Stable under normal conditions but decomposes violently in contact with water.
Conditions to Avoid	Avoid contact with water or water vapour.
Materials to Avoid	Large lumps or small hot particles, react explosively with water, ice and aqueous mineral acids. Halogenated alkane solvents eg, carbon tetrachloride, dichloromethane, tetrachloroethane etc. May ignite in concentrated nitric acid, diethyl ether and tetrafluoropropanol. Contact with water evolves hydrogen which may ignite if water is above 40C. Inter halogen compounds eg.bromide tri and pentafluoride, iodine penta and heptafluorides etc. Chloroform and methanol.
Hazardous Decomposition Products	Decomposes to emit highly irritant fumes.

11. Toxicological Information

Eyes	Can cause severe burns or blindness on contact with the eyes and fumes from burning material are highly irritating.
Skin	Direct contact with moisture on the skin causes severe thermal and caustic burns.
LD50 Skin	Not available
Ingest	Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus.
LD50 Ingest	Not available
Inhalation	Fumes from burning material are highly irritating to the upper respiratory tract.
Carcinogenicity	No information is available.
Mutagenicity	No information is available.
Reproductive Effects	No information is available.

12. Ecological

None unusual.

13. Disposal Considerations

Disposal Methods	Wearing full safety equipment cover material with soda ash and slowly add to butan-1-ol in a large container. Allow to stand for 24 hours then wash to drain with copious amounts of water.
Contaminated Packaging	Use a licensed waste disposer.

14. Transport Information

Proper Shipping Name	Potassium
UN Number	2257
UN Classification	4.3 Dangerous when wet
Subsidiary Risk	None
Flash Point	Not available
Packing Group	I
Transport Category	1
Marine pollutant	No
ADR Hazard ID	X423

15. Regulatory Information

Labelling Classification	Corrosive, Highly Flammable.
Label Symbols	C  F 
Risk & safety Phrases	Reacts violently with water, liberating highly flammable gases. Causes burns. Keep locked up and out of reach of children. Keep contents under paraffin liquid. Keep container dry. In case of fire use dry powder extinguisher - Never use water. In case of accident or if you feel unwell, seek medical advice immediately (show the label).
EEC Number	231-132-9

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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