Camlab Limited – Material Safety Data Sheet

1. Identification 1110967 Product Code POTASSIUM CHLORATE Product Name KClO3 =122.55 Molecular Formula CAS Number 3811-04-9 CAMLAB LIMITED Supplier: C Norman Way Industrial Estate Over Cambridge England can CB4 5WE 01954 233110 Phone Fax 01954 233101 08:00-17:00 01954 233110 Emergency Telephone 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 chlorate	3811-04-9	231-887-4	> 99.5%	O Xn : R9,R20/22	N/A

3. Hazards Identification



Explosive when mixed with combustible material. 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	Wash off skin thoroughly with water.		
Inhalation	Remove from exposure. If material has reacted with an acid to form, chlorine, seek immediate medical assistance. OBTAIN MEDICAL ATTENTION.		
Ingestion	If conscious give plenty of water to drink. 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.		

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. Mixtures with combustible materials are flammable. Mixtures with finely divided combustible materials can react explosively.		
Extinguishing Media	Water spray.		
Unsuitable Media	Nothing specified.		

6. Accidental Release Measures			
Personal Protection	Evacuate area immediately. If contact with acid is possible, use full protective clothing and breathing apparatus. Only re-enter area with full protective clothing and breathing apparatus.		
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 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 to a minimum. Well ventilated, cool, dry storage . Store in a suitable area for oxidising agents. Keep Storage Conditions well separated from combustible materials.

8.1 Workplace Exposure Limits

No prescribed exposure limits available

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

Appearance	White crystalline solid.
Odour	No specific odour.
рH	7 (In solution)
Boiling point	400.0 °C
Melting point	356.0 °C
Flash point	Not available
Upper Flammable Limit	Not available
Lower Flammable Limit	Not available
Auto Ignition	Not available
Explosive properties	No.
Oxidising Properties	A strong oxidising agent.
Vapour Presure	Not available
Relative Density	2.5000 °C
Water Solubility	7.3%

10. Stability & Reactivity

Chemical Stability	Stable under normal conditions
Conditions to Avoid	Avoid contact with acids or combustible materials.
Materials to Avoid	Many organic compounds. Combustible materials. Acids.
Hazardous Decomposition Products	Liberates oxygen on decomposition which will assist in a fire. May produce hazardous fumes if involved in a fire.

11. Toxicological Information		
Eyes	Contact with the solid or dust may be irritating to the eyes.	
Skin	The solid and solutions may be irritating to the skin.	
LD50 Skin	Not available	
Ingest	Harmful if swallowed. Readily absorbed through digestive tract and acts as a strong blood poison. Lthal dose 5-30g Symptoms include greyish-blue complexion,vomiting,diarrhoea, shortness of breath leading to collapse.	
LD50 Ingest	Oral Rat 1870 mg/Kg	
Inhalation	Harmful by inhalation.	
Carcinogenicity	Not considered to be a carcinogen.	
Mutagenicity	Not considered to be a mutagen.	
Reproductive Effects	None identified.	

12. Ecological

Low levels are readily bio-degraded in the environment. Higher levels are toxic to marine and plant life.

13. Disposal Considerations

Disposal Methods

Do not dispose of as domestic waste.

Contaminated Packaging Wash out containers with water.

14. Transport Information

Proper Shipping Name	Potassium Chlorate
UN Number	1485
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

Classification

Oxidising, Harmful.



Risk & safety Phrases Explosive when mixed with combustible material. Harmful by inhalation and if swallowed. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs. Keep away from sources of ignition - No Smoking. Take off immediately all contaminated clothing. EEC Number 231-887-4

16. Other Information

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

16. Other Information (continued)

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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