


1. Identification

Product Code 1111311

Product Name **POTASSIUM CYANIDE pure**

Molecular Formula **KCN =65.12**

CAS Number 151-50-8

Supplier: **CAMLAB LIMITED**

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2. Composition

Component	CAS No	EEC No	Conc w/w	Classification & Risk Phrases	Exp (See 8.1)
Cyanides, as CN	151-50-8	205-793-3	> 38.0%	T+ : R26/27/28,R32	WEL

3. Hazards Identification

Very toxic by inhalation, in contact with skin and if swallowed. Contact with acids liberates very toxic gas.

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 Thoroughly wash off skin with soap and water. Remove contaminated clothing immediately and wash before re-use. OBTAIN MEDICAL ATTENTION URGENTLY.

Inhalation Remove from exposure, wearing protective clothing and breathing apparatus if necessary. If still breathing place in recovery position and allow patient to inhale amyl nitrite. OBTAIN MEDICAL ATTENTION URGENTLY.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. Treat as for inhalation. 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 Use water spray on surrounding fire but minimise water on containers if open or burnt.

Unsuitable Media Do not use carbon dioxide.

6. Accidental Release Measures

Personal Protection	Evacuate area immediately. Do not allow other people to enter area. Only re-enter area with full protective clothing and breathing apparatus. Ensure no contact with water, acids or other aqueous solutions is possible.
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	Shovel/sweep up into container for removal Decontaminate residues in spill area with an excess of warm (50 C) dilute alkaline hypochlorite solution Allow to stand overnight then wash to drain with a large excess of water. Recovered material can be carefully detoxified in the same manner.
Minor Spillage	Shovel/sweep up into container for removal Decontaminate residues in spill area with an excess of warm (50 C) dilute alkaline hypochlorite solution Allow to stand overnight then wash to drain with a large excess of water. Recovered material can be carefully detoxified in the same manner.

7. Storage & Handling

Handling Precautions	Avoid contact with skin and eyes. Do not breath dust. Do not allow to contaminate clothing. Persons using cyanides should be specifically trained in their handling and emergency procedures. Ensure Local Exhaust Ventilation maintains dust concentrations below the recommended limits.
Storage Conditions	Well ventilated, cool, dry storage . Keep well separated from acids and oxidising agents.

8.1 Workplace Exposure Limits

Workplace Exposure Limits	Long Term (8hr TWA):	-	ppm	5.000	mg m-3
	Short Term (15min Period):	-	ppm	-	mg m-3

Special Hazards	Can be absorbed through skin.
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8.2 Personal Protection

Respiratory	Use L.E.V. or natural ventilation to maintain dust concentrations below exposure limits.
Hands	Use nitrile gloves or PVC gauntlets.
Eyes	Use chemical splash proof glasses or goggles.
Skin	Wear PVC oversuit.

9. Physical & Chemical Properties

Appearance	White crystalline powder or granules.
Odour	Faint odour of bitter almonds.
pH	Not available
Boiling point	Not available
Melting point	636.0 °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	1.76 mmHg @ 635 C
Relative Density	1.5200 °C
Water Solubility	42%

10. Stability & Reactivity

Chemical Stability	Stable under normal conditions
Conditions to Avoid	Avoid contact with acids.

10. Stability & Reactivity (continued)

Materials to Avoid	Reacts vigorously with strong oxidising agents (eg nitrates, chlorates, perchlorates and peroxides) Reacts with acids to liberate flammable and very toxic hydrogen cyanide gas.
Hazardous Decomposition Products	Decomposes to emit flammable and very toxic hydrogen cyanide.

11. Toxicological Information

Eyes	Contact with the solid or dust may causes irritation with discomfort and burning sensation.
Skin	Contact with the solid or solution will causes irritation with discomfort and burning sensation. Toxic when absorbed through skin.
LD50 Skin	Not available
Ingest	Ingestion will cause headache, dizziness, nausea, vomiting and increased difficulty in breathing. Fatal dose in man is 50-100mg.
LD50 Ingest	Oral rat 10mg/Kg
Inhalation	Inhalation of dust will produce irritation of the eyes, nose, throat and respiratory tract. Where contact with an acid and liberation of hydrogen cyanide has occurred symptoms resemble ingestion. A fatal dose would be inhaled in 30-60 minutes from a concentration of 100ppm HCN.
Carcinogenicity	Not considered to be a carcinogen.
Mutagenicity	May be a mutagen.
Reproductive Effects	No information is available.
Other Information	The toxic effects are identical from all routes of entry, principally ingestion and absorption (particularly of solutions) through the skin-especially when broken. Signs of poisoning are pink complexion, flushing, unconsciousness and cessation of breathing.

12. Ecological

Cyanides are highly toxic to aquatic life.

13. Disposal Considerations

Disposal Methods	Using full safety equipment detoxify by treatment with an excess of warm dilute alkaline sodium (or calcium) hypochlorite solution. Allow to stand overnight then wash to drain with lots of
Contaminated Packaging	Carefully wash out container with warm dilute alkaline sodium (or calcium) hypochlorite solution. Use a licensed waste disposer.

14. Transport Information

Proper Shipping Name	Potassium cyanide
UN Number	1680
UN Classification	6.1 Toxic
Subsidiary Risk	None
Flash Point	Not available
Packing Group	I
Transport Category	1
Marine pollutant	No
ADR Hazard ID	66

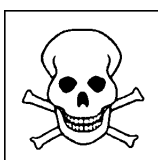


15. Regulatory Information

Labelling	Very Toxic.
Classification	

Label Symbols

T+



15. Regulatory Information (continued)

Risk & safety Phrases	Very toxic by inhalation, in contact with skin and if swallowed. Contact with acids liberates very toxic gas. Keep locked up and out of reach of children. Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water. In case of accident or if you feel unwell, seek medical advice immediately (show the label)
EEC Number	205-793-3

16. Other Information

Document Information	<p>This document has been prepared in accordance with directive 88/379/EEC.</p> <p>The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment.</p> <p>Revision Date: 10/06/05. Data reviewed and PDF file generated: 17/03/10. Copyright 2010 Camlab Limited.</p>
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