



# Material Safety Data Sheet

## EMERGENCY NUMBERS:

(USA) CHEMTREC : 1(800) 424-9300 (24hrs)

(CAN) CANUTEC : 1(613) 996-6666 (24hrs)

(USA) Anachemia : 1(518) 297-4444

(CAN) Anachemia : 1(514) 489-5711

WHMIS	Protective Clothing	TDG Road/Rail
Not controlled under WHMIS (Canada).		Not controlled under TDG (Canada). PIN: Not applicable. PG: Not applicable.

## Section I. Product Identification and Uses

<b>Product name</b>	<b>POTASSIUM CYANATE</b>	<b>CI#</b>	Not available.
<b>Chemical formula</b>	KCNO	<b>CAS#</b>	590-28-3
<b>Synonyms</b>	Aero cyanate, Potassium isocyanate, Cyanic acid potassium salt, AC-7613, 73232	<b>Code</b>	AC-7613
<b>Supplier</b>	Anachemia Canada. 255 Norman. Lachine (Montreal), Que H8R 1A3	<b>Formula weight</b>	81.12
		<b>Supersedes</b>	
<b>Material uses</b>	For laboratory use only.		

## Section II. Ingredients

Name	CAS #	%	TLV
1) POTASSIUM CYANATE	590-28-3	>96	Not established by ACGIH

### Toxicity values of the hazardous ingredients

POTASSIUM CYANATE:  
 ORAL (LD50): Acute: 841 mg/kg (Mouse). 1500 mg/kg (Rat).  
 INTRAPERITONEAL (LD50): Acute: 320 mg/kg (Mouse).

**Section III. Physical Data**

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<b>Physical state and appearance / Odor</b>	Solid. (White crystalline powder.)
<b>pH (1% soln/water)</b>	Not available.
<b>Odor threshold</b>	Not available.
<b>Percent volatile</b>	0% at 21°C
<b>Freezing point</b>	Decomposes at 700°C.
<b>Boiling point</b>	Not applicable.
<b>Specific gravity</b>	2.1 (Water = 1)
<b>Vapor density</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Water/oil dist. coeff.</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Solubility</b>	Easily soluble in cold water.

**Section IV. Fire and Explosion Data**

<b>Flash point</b>	Not available.
<b>Flammable limits</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Fire degradation products</b>	Oxides of carbon, potassium and nitrogen. Cyanides.
<b>Fire extinguishing procedures</b>	Use DRY chemical, carbon dioxide, foam or water spray. Wear adequate personal protection to prevent contact with material or its combustion products. Self contained breathing apparatus with a full facepiece operated in a pressure demand or other positive pressure mode. Move containing vessels from fire if without risk.
<b>Fire and Explosion Hazards</b>	Will burn on prolonged exposure to flame or high temperature. The sensitivity to static discharge is not available. The sensitivity to impact is not available. Emits toxic fumes under fire conditions.

**Section V. Toxicological Properties**

<b>Routes of entry</b>	Ingestion and inhalation. Eye contact. Skin contact.
<b>Effects of Acute Exposure</b>	May be harmful by ingestion, inhalation, or by skin absorption. May cause irritation. To the best of our knowledge, the chemical, physical, and toxicity of this substance has not been fully investigated.
<b>Eye</b>	May cause irritation with redness and pain.
<b>Skin</b>	May cause irritation with redness and pain.
<b>Inhalation</b>	No specific information is available on this material. May cause irritation, coughing, chest pains, and difficulty in breathing.
<b>Ingestion</b>	Ingestion of large amounts may cause death.

**Section V. Toxicological Properties**

**Effects of Chronic Overexposure** May cause cataracts, anorexia, and peripheral neuropathies (including: hyporeflexia, muscular weakness, nerve troubles). Carcinogenic effects: Not available. Mutagenic effects: Not available. Teratogenic effects: Not available. Toxicity of the product to the reproductive system: Not available. To the best of our knowledge, the chemical, physical, and toxicity of this substance has not been fully investigated.

**Section VI. First Aid Measures**

**Eye contact** Immediately flush eyes with copious quantities of water for at least 15 minutes holding lids apart to ensure flushing of the entire surface. Seek immediate medical attention. DO NOT use an eye ointment.

**Skin contact** Immediately flush skin with plenty of water and soap for at least 15 minutes while removing contaminated clothing and shoes. Seek immediate medical attention. Wash contaminated clothing before reusing.

**Inhalation** Remove patient to fresh air. Administer approved oxygen supply if breathing is difficult. Administer artificial respiration or CPR if breathing has ceased. Seek immediate medical attention.

**Ingestion** If conscious, wash out mouth with water. Seek immediate medical attention. Never give anything by mouth to an unconscious or convulsing person. Guard against aspiration into lungs. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus.

**Section VII. Reactivity Data**

**Stability** Stable. Conditions to avoid: High temperatures, sparks, open flames and all other sources of ignition, contamination.

**Hazardous decomp. products** Not available.

**Incompatibility** Acids, metals.

**Reaction Products** Not available. Hazardous polymerization will not occur.

## Section VIII. Preventive Measures

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**Protective Clothing in case of spill and leak** Wear self-contained breathing apparatus, rubber boots and heavy rubber gloves.

**Spill and leak** Evacuate the area. Sweep up and place in container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pick up is complete. DO NOT empty into drains. DO NOT touch spilled material.

**Waste disposal** According to all applicable regulations. May be harmful to aquatic life. Can be dangerous if allowed to enter drinking water intakes. Do not contaminate domestic or irrigation water supplies, lakes, streams, ponds, or rivers.

**Storage and Handling** Store in a cool place away from heated areas, sparks, and flame. Store in a well ventilated area. Store away from incompatible materials. Do not add any other material to the container. Do not wash down the drain. Do not breathe dust. Keep container tightly closed and dry. Manipulate under an adequate fume hood. Avoid raising dust. Empty containers may contain a hazardous residue. Handle and open container with care. Minimize dust generation and exposure - use dust mask or appropriate protection. Take off immediately all contaminated clothing. This product must be manipulated by qualified personnel. Do not get in eyes, on skin, or on clothing. Wash well after use. In accordance with good storage and handling practices. Do not allow smoking and food consumption while handling. In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible.).

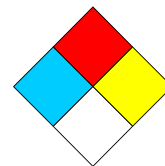
## Section IX. Protective Measures

**Protective clothing** Splash goggles. Impervious gloves, coveralls, and/or other resistant protective clothing. Sufficient to protect skin. Wear an effective dust mask, if dust may be present in the work atmosphere. For emergency situations, a self-contained respirator is recommended (NIOSH-approved). Do not wear contact lenses. Make eye bath and emergency shower available. Ensure that eyewash station and safety shower is proximal to the work-station location.

**Engineering controls** Local mechanical exhaust ventilation capable of minimizing dust emissions at the point of use. Do not use in unventilated spaces.

## Section X. Other Information

**Special Precautions or comments** Harmful solid! Do not breathe dust. Avoid all contact with the product. Avoid prolonged or repeated exposure. Use in a chemical fume hood. To the best of our knowledge, the chemical, physical and toxicity of this substance has not been fully investigated. Handle and open container with care. Container should be opened only by a technically qualified person.  
RTECS NO: GS6825000 (Potassium cyanate).



NFPA

Prepared by MSDS Department/Département de F.S..

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Telephone# (514) 489-5711

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