

SECTION 1: IDENTIFICATION

PRODUCT IDENTIFIER: **Potassium Chromate Solution**

OTHER MEANS OF IDENTIFICATION: Potassium Chromate Indicator

RECOMMENDED USE: Laboratory reagent

RESTRICTIONS ON USE: None

SUPPLIER IDENTIFIER: **Di-Corp**
8750-53 Ave
Edmonton, AB T6E 5G2
780-440-4923

EMERGENCY PHONE NUMBER: 780-468-4064 (24 hr)

SECTION 2: HAZARD IDENTIFICATION

CLASSIFICATION: Skin sensitization – Category 1
Germ cell mutagenicity – Category 1B
Carcinogenicity – Category 1B

LABEL SYMBOLS:



SIGNAL WORD:

DANGER

CLASSIFICATION INFORMATION:

May cause an allergic skin reaction.
May cause genetic defects.
May cause cancer.

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

Wear protective gloves, clothing and eye and face protection.

Contaminated work clothing should not be allowed out of the workplace.

Avoid breathing mist or vapour.

PRECAUTIONARY STATEMENTS:

Response

IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention.

Take off contaminated clothing and wash it before reuse.

If exposed or concerned: Get medical attention.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local, provincial or federal regulations.

OTHER HAZARDS:

Potassium chromate is hazardous to the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	CONCENTRATION
Propylene glycol	57-55-6	20% (v/v)
Potassium chromate	7789-00-6	5% (w/v)

SECTION 4: FIRST AID MEASURES

SKIN CONTACT:	Immediately remove contaminated clothing and footwear. Wash skin thoroughly with water. If irritation persists, or prolonged contact has occurred, obtain medical attention.
EYE CONTACT:	Immediately flush with gently flowing warm water for 15 minutes holding eyelids open. Remove contact lens, if present. If irritation persists, obtain medical attention.
INGESTION:	Do not induce vomiting unless directed to do so by a physician or poison control center. Rinse mouth and give 1-2 glasses of water. If vomiting occurs, keep head below hips to prevent aspiration, and re-administer water. Never give anything by mouth if victim is unconscious, rapidly losing consciousness or convulsing. Obtain medical attention.
INHALATION:	Move to fresh air. Apply oxygen or artificial respiration if required. Obtain medical attention.
MOST IMPORTANT SYMPTOMS / EFFECTS:	May cause allergic skin reaction. Symptoms may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.
IMMEDIATE MEDICAL ATTENTION / SPECIAL TREATMENT:	Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Not flammable. Use media suitable for surrounding materials and packaging.
UNSUITABLE EXTINGUISHING MEDIA:	None known.
SPECIFIC FIRE HAZARDS:	This product is considered a mild oxidizer, but is a strong oxidizer in highly acidic solutions. Dried product residue may cause fire and/or explosion. Emits toxic fumes under fire conditions.
HAZARDOUS COMBUSTION PRODUCTS:	Not available.
SPECIAL PROTECTIVE EQUIPMENT & PRECAUTIONS:	Full protective equipment and self-contained breathing apparatus required for fire-fighting personnel. Remove containers from fire area, or cool with water spray, if possible.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Use suggested or required safety equipment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN UP

Soak up with absorbent material and dispose of in approved containers. Triple rinse empty containers and dispose in general trash.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Avoid ingestion. Do not breathe mist or vapours. Wash thoroughly after handling. Practice reasonable caution and personal cleanliness. Launder exposed clothing before reuse. Avoid skin and eye contact. Wear suitable protection for eyes and skin when handling.

CONDITIONS FOR SAFE STORAGE & INCOMPATIBILITIES

Store in dry, well ventilated area away from ignition sources and oxidizers. Keep container tightly closed when not in use.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS:	Potassium chromate: ACGIH TWA = 0.05 mg/m ³ Propylene glycol: Not established
ENGINEERING CONTROLS:	Local exhaust ventilation, process enclosure or other engineering controls as required to maintain mist or vapour concentration below TLV's.

PERSONAL PROTECTIVE MEASURES

RESPIRATORY PROTECTION:	Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines.
PROTECTIVE GLOVES:	Rubber or neoprene recommended.
EYE PROTECTION:	Safety glasses with side shields or chemical goggles.
OTHER PROTECTIVE EQUIPMENT (SPECIFY):	Suggest the use of a chemical apron and/or chemical resistant clothing. Ensure eye-wash station and emergency shower are available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Yellow liquid
ODOUR:	Odourless
ODOUR THRESHOLD:	Not applicable
pH:	9.2
MELTING POINT / FREEZING POINT:	<-10°C
BOILING POINT / RANGE:	>100°C
FLASH POINT:	Not applicable
EVAPORATION RATE:	Not available
FLAMMABILITY:	Not flammable
FLAMMABILITY / EXPLOSIVE LIMITS:	Not applicable
VAPOUR PRESSURE:	Not available
VAPOUR DENSITY:	Not available
RELATIVE DENSITY:	1.0
SOLUBILITY:	Miscible in water
PARTITION COEFFICIENT:	Not available
AUTO-IGNITION TEMPERATURE:	Not applicable
DECOMPOSITION TEMPERATURE:	Not applicable
VISCOSITY:	Not available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:	Not reactive under normal conditions of use.
CHEMICAL STABILITY:	Stable under normal conditions of use.
POSSIBILITY OF HAZARDOUS REACTIONS:	Polymerization will not occur.
CONDITIONS TO AVOID:	None known.
INCOMPATIBLE MATERIALS:	Avoid contact with organic materials, reducing agents, acids, bases, acetic anhydride, alkalies and water reactive substances.
HAZARDOUS DECOMPOSITION PRODUCTS:	Oxides of carbon, chromium and potassium.

SECTION 11: TOXICOLOGICAL INFORMATION

PRODUCT TOXICITY: Not available

COMPONENT TOXICITY

COMPONENT	LD50 ORAL	LD50 DERMAL	LC50 INHALATION
Propylene glycol	20 g/kg (rat)	Not available	Not available
Potassium chromate	180 mg/kg (mouse)	Not available	Not available

SKIN CONTACT: Hazardous in case of skin contact (permeator, irritant). Skin inflammation is characterized by itching, scaling, reddening or, occasionally, blistering. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material.

EYE CONTACT:	Hazardous in case of eye contact. Inflammation of the eye is characterized by redness, watering and itching.
INGESTION:	May cause vomiting, abdominal pain, diarrhea. Repeated ingestion of potassium chromate may cause liver and kidney damage, blood and bone marrow damage, coma and possible death.
INHALATION:	Not an expected route of exposure for normal work processes. Mist will be irritating to mucous membranes. Prolonged exposure may cause headaches, nausea, vomiting, chemical pneumonitis and pulmonary edema. May cause sensitization by inhalation.
CARCINOGENICITY:	Potassium chromate is a known human carcinogen (NTP, IARC & ACGIH).
TERATOGENICITY:	No information available.
REPRODUCTIVE TOXICITY:	No information available.
MUTAGENICITY:	Chromium (VI) compounds in the form of chromates and dichromates have been found to be mutagenic. Passes through the placental barrier in animals.
CHRONIC TOXICITY:	No information available.
TARGET ORGAN EFFECTS:	No information available.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:	Potassium chromate: LC50 fish = 40 mg/L/96 hr Potassium chromate: EC50 daphnia = 0.015 mg/L/48 hr
PERSISTENCE AND DEGRADABILITY:	Not available.
BIOACCUMULATIVE POTENTIAL:	Not available.
MOBILITY IN SOIL:	Not available.
OTHER ADVERSE EFFECTS:	Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose/incinerate in accordance with federal, state and local regulations. Do not dump into sewer drains, watercourses or on the soil. Offer surplus and non-recyclable material to a licensed disposal company. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Triple rinse empty containers and dispose in general trash.

SECTION 14: TRANSPORTATION INFORMATION

TDG:	Not regulated.
DOT:	Not regulated.
IATA:	Not regulated.
IMDG:	Not regulated.
UN NUMBER:	Not applicable
PROPER SHIPPING NAME:	Not applicable
CLASS:	Not applicable
PACKING GROUP:	Not applicable
IMDG HAZARDS:	Product contains environmentally hazardous substance: Potassium chromate.
BULK TRANSPORT:	Not applicable
SPECIAL PRECAUTIONS:	Not available

SECTION 15: REGULATORY INFORMATION

DSL:	All ingredients are listed on the DSL.
WHMIS 1988 CLASS:	D1B, D2A, D2B

TSCA: All ingredients are listed or exempt from listing.

SECTION 16: OTHER INFORMATION

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