

ANACHEMIA CANADA -- POTASSIUM CHROMATE -- 6810-00-985-7092

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Product Identification  
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Product ID:POTASSIUM CHROMATE

MSDS Date:11/03/1998

FSC:6810

NIIN:00-985-7092

Status Code:A

MSDS Number: CLDRT

=== Responsible Party ===

Company Name:ANACHEMIA CANADA

Address:255 NORMAN H8R 1A3

City:VILLE ST. PIERRE (MONTREAL)

State:PQ

Country:CN

Info Phone Num:514-489-5711

Emergency Phone Num:613-996-66

66/518-297-4444

Chemtrec Ind/Phone:(800)424-9300

CAGE:36842

=== Contractor Identification ===

Company Name:ANACHEMIA

Address:3 LINCOLN BLVD

Box:City:ROUSES POINT

State:NY

ZIP:12979

Country:US

Phone:518-297-4444

CAGE:HO801

Company Name:ANACHEMIA CANADA

Address:255 NORMAN H8R 1A3

Box:City:VILLE ST. PIERRE (MONTREAL)

State:PQ

Country:CN

Phone:514-489-5711;518-297-4444

CAGE:36842

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Composition/Information on Ingredients  
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Ingred Name:POTASSIUM CHROMATE

CAS:7789-00-6

RTEC

S #:GB2940000

Minumum % Wt:90.

Maxumum % Wt:100.

Other REC Limits:SEE OTHER INFO.

OSHA PEL:0.1MG(CRO3)M3 CEIL

ACGIH TLV:0.05 MG(CR)/M3

EPA Rpt Qty:10 LBS

DOT Rpt Qty:10 LBS

===== Hazards Identification =====

LD50 LC50 Mixture:SEE TOXICOLOGICAL SECTION.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:NO

Health Hazards Acute and Chronic:EFFECTS OF ACUTE EXPOSURE: MAY BE FATAL BY INGESTION, INHALA

TION, SKIN ABSORPTION. SEVERE IRRITANT!

30 MG/M3 IS IMMEDIATELY DANGEROUS TO LIFE OR HEALTH. POTENTIALLY HARMFUL AMOUNTS CAN CAUSE DAMAGE TO KIDNEYS, LIVER, BLOOD, LUNG, EYE, SKIN, RESPIRATORY SYSTEM &/OR BONE MARROW. EYE: CAUSES CONJUNCTIVITIS, SEVERE IRRITATION OR BURNS & LOSS OF VISION. MAY CAUSE PERMANENT DAMAGE. SKIN: CAUSES SEVERE IRRITATION & BLISTERS ON CONTACT W/SKIN. PROLONGED EXPOSURE MAY RESULT IN SKIN BURNS & ULCERATIONS. CONTACT W/BROKEN SKIN MAY LEAD

TO FORMATION OF FIRMLY

MARGINATED "CHROME SORES". MASSIVE OVEREXPOSURE COULD (SIGNS/SYMPS OF OVEREXPOSURE)

Explanation of Carcinogenicity:POTASSIUM CHROMATE: IARC GROUP 1, VOLUME 49, PAGE 49, 1990 .

Effects of Overexposure:ACUTE/CHRONIC (CONT'D): LEAD TO DAMAGE TO

KIDNEYS, LIVER, BLOOD AND/OR BONE MARROW, KIDNEY FAILURE AND DEATH.

A STRONG SENSITIZER WHICH MAY CAUSE SKIN RASH. INHALATION: DUST OR MIST MAY IRRITATE NASAL SEPTUM & RESPIRATORY TRACT. DESTRUCTIVE TO TIS

SUES OF MUCOUS MEMBRANES. PROLONGED/REPEATED EXPOSURE MAY CAUSE

ULCERATION & PERFORATION OF NASAL SEPTUM. MAY CAUSE HEADACHE,

NAUSEA, VOMITING, CHEMICAL PNEUMONITIS & PULMONARY EDEMA. MAY

CAUSE SENSITIZATION BY INHALATION. CAN CAUSE LIVER, KIDNEY & LUNG

DAMAGE. INGESTION: BURNS IN MOUTH, PHARYNX & GASTROINTESTINAL TRACT

(CAN CAUSE SEVERE TISSUE DESTRU CTION). MAY CAUSE VOMITING, (STATE

REGS)

Medical Cond Aggravated by Exposure:N/P.

===== First Aid Meas

ures =====

First Aid:EYES: IMMEDIATELY FLUSH WITH COPIOUS QUANTITIES OF WATER FOR AT LEAST 15 MINUTES, HOLDING LIDS APART TO ENSURE FLUSHING OF ENTIRE SURFACE. CALL PHYSICIAN. SKIN: IMMEDIATELY FLUSH WITH PLENTY OF SOAP & WATER FOR AT LEAST 15 MIN, WHILE REMOVING CONTAMINATED CLOTHING/SHOES. SEEK IMMEDIATE MEDICAL ATTENTION. WASH CONTAM CLOTHING BEFORE REUSE. DISCARD CONTAM LEATHER ARTICLES SUCH AS BELTS & SHOES. INHA LATION: REMOVE PATIENT TO FRESH A

IR. ADMINISTER

APPROVED OXYGEN SUPPLY IF BREATHING DIFFICULT. ADMINISTER ARTIFICIAL RESPIRATION OR CPR IF BREATHING HAS CEASED. SEEK IMMEDIATE MEDICAL ATTENTION. (SUP PL SAFETY/HEALTH)

===== Fire Fighting Measures =====

Flash Point:NONE

Autoignition Temp:Autoignition Temp Text:NOT AV

Lower Limits:NOT AVAILABL

Upper Limits:NOT AVAILABL

Extinguishing Media:USE FLOODING QUANTITIES OF WATER. COOL CONTAINING VESSELS WITH FLOODING QUANTITIES OF WATE

R UNTIL WELL AFTER FIRE IS OUT.

Fire Fighting Procedures:WEAR ADEQUATE PERSONAL PROTECTION TO PREVENT CONTACT WITH MATERIAL OR ITS COMBUSTION PRODUCTS. NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN A PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE. DO NOT ENTER CONFINED FIRE SPACE WITHOUT ADEQUATE PROTECTIVE CLOTHING & APPROVED SCBA.

Unusual Fire/Explosion Hazard:POWERFUL OXIDIZING AGENT: MAY IGNITE OXIDIZABLE MATERIAL. CONTRIBUT

ES TO COMBUSTION OF OTHER MATERIAL.

CONTACT WITH OTHER MATL MAY CAUSE FIRE/EXPLOSION. CONTAINER EXPLOSION MAY OCCUR UNDER FIRE CONDIT IONS OR WHEN HEATED. EMITS TOXIC FUMES UNDER FIRE CONDITIONS. FIRE DEGRADATION PRODUCTS: OXIDES OF CHROMIUM & POTASSIUM.

===== Accidental Release Measures =====

Spill Release Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS, HEAVY RUBBER GLOVES. FULL SUIT. EVACUATE AREA. ELIMINATE ALL SOURCES IG

NITION. SWEEP UP & PLACE IN CONTAINER FOR DISPOSAL. AVOID RAISING DUST. USE NON-SPARKING TOOLS. VENT AREA, WASH SPILL SITE AFTER MATERIAL PICKUP COMPLETE. DO NOT EMPTY INTO DRAIN OR TOUCH SPILLED MATERIAL. AVOID CONTACT WITH COMBUSTIBLE MATERIAL (WOOD, PAPER, OIL, CLOTHES).

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===== Handling and Storage =====

Handling and Storage Precautions:STORE IN A COOL WELL VENTILATED AREA AWAY FROM HEATED AREAS, SPARKS & FLAMES. STORE AWAY FROM INCOMP

ATIBLE MATERIALS. DO NOT ADD ANY OTHER MATERIAL TO CONTAINER. DO NOT WASH DOWN THE DRAIN. DO NOT BREATHE DUST. KEEP CONTAINER TIGHTLY CLOSED & DRY. MANIPULATE UNDER ADEQUATE FUME (OTHER PRECAUTIONS)

Other Precautions:HANDLING/STORAGE (CONT'D): HOOD. AVOID RAISING DUST. HANDLE & OPEN CONTAINER WITH CARE. MINIMIZE DUST GENERATION & EXPOSURE-USE DUST MASK OR APPROPRIATE PROTECTION. THIS PRODUCT MUST BE MANIPULATED BY QUALIFIED PERSONNEL. PRODUCT IS HIGHLY HYGROSCOPIC.

DO NOT STORE ON WOOD FLOORS. KEEP AWAY FROM COMBUSTIBLE (TRANSPORT)

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===== Exposure Controls/Personal Protection =====

Respiratory Protection:A NIOSH-APPROVED RESPIRATOR APPROPRIATE FOR THE EXPOSURE OF CONCERN . ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROLS. IF MORE THAN TLV, DO NOT BREATHE VAPOR. SUPPLY SAFETY (CONTD): SEEK IMMEDIATE MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

Ventilation:USE ONLY IN CHEMICAL FUME HOOD TO KEEP AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS. DO NOT USE IN UNVENTILATED SPACES.

Protective Gloves:IMPERVIOUS RUBBER GLOVES .

Eye Protection:ANSI-APPROVED CHEMICAL SAFETY GOGGLES & FULL FACESHIELD

Other Protective Equipment:PROTECTIVE CLOTHING: IMPERVIOUS APRON, COVERALLS &/OR OTHER RESISTANT PROTECTIVE CLOTHING TO PROTECT SKIN. SUFFICIENT TO PROTECT SKIN. MAKE EYE BATH & EMERGENCY SHOWER AVAILABLE PROXIMAL TO WORKSTATION.

Work Hygienic Practices:DO NOT GET

IN EYES, ON SKIN, ON CLOTHING. WASH WELL AFTER USE. DO NOT ALLOW SMOKING AND FOOD CONSUMPTION WHILE HANDLING. DO NOT WEAR CONTACT LENSES. WEAR CLEAN WORK CLOTHING DAILY.

Supplemental Safety and Health

FIRST AID (CONT'D):INGEST: IF CONSCIOUS, WASH OUT MOUTH WITH WATER. HAVE CONSCIOUS PERSON DRINK SEVERAL GLASSES WATER TO DILUTE. INDUCE VOMITING BY EITHER GIVING IPECAC SYRUP OR PLACING FINGER AT BACK OF THROAT. VOMITING SHOULD ONLY BE INDUCED UNDER DIRECTION OF PHYSICI

AN/POISON CONTROL CENTER. (RESPIRATORY PROTECTION)

===== Physical/Chemical Properties =====

Melt/Freeze Pt:=975.C, #####F

Vapor Pres:NOT AVAILABLE

Vapor Density:6.7(AIR=1)

Spec Gravity:2.73 (WATER=1)

pH:8.6-9.8(5%,25C)

Solubility in Water:SOLUBLE IN WATER.

Appearance and Odor:SOLID YELLOW CRYSTALS; ODORLESS.

Percent Volatiles by Volume:0% @ 21C

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

ACIDS, B

ASES, REDUCING MATERIALS, COMBUSTIBLE MATERIALS, ORGANIC MATERIALS, METALS, ALKALIES, ALCOHOLS, ACETONE, HYDRAZINE, HYDROXYLAMINE, HYDROXYLAMINE SALTS, MERCURY CYANIDE, CALCIUM HYDROXIDE, ETHYLENE GLYCOL, OILS, GREASE

Stability Condition to Avoid:STABLE. CONDITIONS TO AVOID: HIGH TEMPERATURES, SPARKS, OPEN FLAMES AND ALL OTHER SOURCES OF IGNITION, CONTAMINATION.

Hazardous Decomposition Products:NOT AVAILABLE. REACTION PRODUCTS: CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE AND/OR EXPLOSION.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Toxicological Information =====

Toxicological Information:TOXICITY VALUES OF HAZARDOUS INGREDIENTS:

POTASSIUM CHROMATE: ORAL (LD50): ACUTE: 180 MG/KG (MOUSE).

INTRAPERITONEAL (LD50): ACUTE: 32 MG/KG (MOUSE). INTRAMUSCULAR

(LD50): ACUTE: 11 MG/KG (RABBIT). MATERIALS TO AVOID (CONT'D):

OXIDIZING AGENTS, EASILY OXIDIZABLE MATERIALS, CARBIDES, SULFUR, ALUMINUM, SULFURIC ACID,

BORON, SILICON, ACETIC ANHYDRIDE, AMINES,  
PAPER, WOOD, SULFUR. THIS PRODUCT IS MILD OXIDIZER IN SOLUTION,  
BUT A STRONG OXIDIZER IN HIGHLY ACIDIC SOLUTIONS.SPECIAL  
PREC/COMMENTS: POWERFUL OXIDIZING AGENT; MAY IGNITE OXIDIZABLE  
MATLS. HIGHLY TOXIC! CARCINOGEN! MUTAGEN! SEVERE IRRITANT ! CONTACT  
NEHC FOR ADDITIONAL INFO.

===== Ecological Information =====

Ecological:N/P. STATE REGULATIONS (CONT'D): SUBSTANCE KNOWN TO CAUSE  
ALLERGIC REACTI  
ONS IN CERTAIN INDIVIDUALS ONCE THEY BECOME  
SENSITIZED AFTER EXPOSURE TO EVEN SMALL AMOUNTS OVER PERIOD OF  
TIME. CHROMIUM (VI) COMPOUNDS IN FORM OF CHROMATES & DICHROMATES  
HAVE BEEN FOUND TO BE MUTAGENIC IN BACTERIAL & MAMMALIAN CELLS,  
INCLUDING THOSE OF CHINESE HAMSTER. PASSES THROUGH PLACENTAL  
BARRIER IN ANIMAL. TO THE BEST OF CO.'S KNOWLEDGE, CHEMICAL,  
PHYSICAL & TOXICITY OF SUBSTANCE HAS NOT BEEN FULLY INVESTIGATED.

===== Disposal Considerations ==  
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Waste Disposal Methods:DISPOSE IN ACCORDANCE TO ALL FEDERAL STATE AND  
LOCAL REGULATIONS . ACCORDING TO ALL APPLICABLE REGULATIONS.  
HARMFUL TO AQUATIC LIFE AT VERY LOW CONCENTRATIONS. CAN BE  
DANGEROUS IF ALLOWED TO ENT ER DRINKING WATER INTAKES. DO NOT  
CONTAMINATE DOMESTIC OR IRRIGATION WATER SUPPLIES, LAKES, STREAMS,  
PONDS OR RIVERS.

===== MSDS Transport Information =====

Transport Information:TDG ROAD/RAIL: TDG CLASS: 9.2.  
PIN: NA9142  
(RL-50). PG: III. OTHER PRECAUTIONS (CONT'D): MATERIAL. KEEP AWAY  
FROM DIRECT SUNLIGHT OR STRONG INCANDESCENT LIGHT. EMPTY CONTAINERS  
MAY CONTAIN A HAZARDOUS RESIDUE. TAKE OFF IMMEDIATELY ALL  
CONTAMINATED CLOTHING. USE NON-SPARKING TOOLS. AVOID CONTACT WITH A  
COMBUSTIBLE MATERIAL (WOOD, PAPER, OIL, CLOTHING...). INSUFFICIENT  
VENTILATION, WEAR SUITABLE RE SPIRATORY EQUIPMENT.

===== Regulatory Information =====

SARA Title I

II Information:OTHER INFO (CONT'D): PROLONGED EXPOSURE MAY RESULT IN SKIN BURNS & ULCERATIONS. CARCINOGEN! MUTAGEN! SENSITIZER! POSSIBLE RISKS OF IRREVERSIBLE EFFECTS. TOXIC EFFECTS MAY BE DELAYED DO NOT BREATHE DU ST. AVOID ALL CONTACT WITH PRODUCT & PROLONGED/REPEATED EXPOSURE. USE ONLY IN CHEMICAL FUME HOOD. KEEP AWAY FROM HEAT, SPARKS & FLAME. USE NON-SPARKING TOOLS. WHEN CONTAMINATED, VERY SENSITIVE. CONTACT WITH OTHER MATERIAL MAY FORM SHOCK, HEAT OR FRICTION-

SENSITIVE MIXTURES. HANDLE & OPEN CONTAINER WITH CARE. CONTAINER SHOULD BE OPENED ONLY BY TECHNICALLY QUALIFIED PERSON. (FED REG)

Federal Regulatory Information:WHMIS: WHMIS CLASS: C D-1B D-2A. SARA (CONT'D): NOTE TO PHYSICIAN: MASSIVE OVEREXPOSURE COULD LEAD TO KIDNEY FAILURE & DEATH. DEATH HAS BEEN AVOIDED IN SEVERAL SUCH CASES THRU USE OF EARLY RENAL DIALYSIS. IT HAS BEEN REPORTED THERE IS LITTLE VALUE FROM CHELATING AGENTS, HOWEVER, THAT ASORBIC ACID ADMINISTER

ED INTRAVENOUSLY IS EFFECTIVE ANTIDOTE IN PREVENTING RENAL FAILURE. SKIN ULCERS MAY BE TREATED BY REMOVAL FROM EXPOSURE, DAILY CLEANSING & DEBRIDEMENT, & APPLICATION OF ANTIBIOTIC CREAM & DRESSING.

State Regulatory Information:N/P.SIGNS/SYMPTS OF OVEREXPOSURE (CONT'D): NAUSEA, ABDOMINAL PAIN, DIARRHEA, COMA, BLEEDING AND/OR TISSURE ULCERATION, GASTROENTRITIS, TOXIC NEPHRITIS, BLOOD AND BONE MARROW DAMAGE, LIVER AND KIDNEY FAILURE, PERIPHERAL VASCULAR COLLAPSE AND D

EATH. EFFECTS OF CHRONIC OVEREXPOSURE: DERMATITIS, CONJUNCTIVITIS, "CHROME SORES", ULCERATION & PERFORATION OF NASAL SEPTUM, CHRONIC BRONCHITIS, BRONCHOPNEUMONIA, PNEUMOCONIOSIS, RHINITIS, EMPHYSEMA, GASTROINTESTINAL DISTURBANCES. THERE IS SUFFICIENT CARCINOGENICITY OF SUBSTANCE IN HUMANS (KNOWN CARCINOGEN). (ECOLOGICAL)

===== Other Information =====

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