

ANACHEMIA -- SILVER NITRATE, AC-8188 -- 6810-00-145-0478

===== Product Identification =====

Product ID:SILVER NITRATE, AC-8188
MSDS Date:02/11/1994
FSC:6810
NIIN:00-145-0478
Status Code:A
MSDS Number: CKWZC
=== Responsible Party ===
Company Name:ANACHEMIA
Address:500 - 2ND AVE.
City:VILLE ST. PIERRE (MONTREAL) H8R 1A3
State:PQ
Country:CN
Info Phone Num:514-489-5711
Emergency Phone Num:613-996-666
6/518-297-4444
Chemtrec Ind/Phone:(800)424-9300
CAGE:36842
=== Contractor Identification ===
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

===== Composition/Information on Ingredients =====

Ingred Name:SILVER NITRATE
CAS:7761-88-8
RTECS #:VW4725000
= Wt:100.
OSHA PEL:0.01 MG/M3
ACGIH TLV:0.01 MG (AG)/M3
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

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ds Identification =====

LD50 LC50 Mixture:ORAL (LD50): 50 MG/KG (MOUSE).

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

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

Health Hazards Acute and Chronic:ACUTE: MAY BE FATAL BY INGESTION, INHALATION OR SKIN ABSORPTION. CORROSIVE. EYE: CAUSES SEVERE BURNS & LOSS OF VISION. MAY CAUSE PERMANENT DAMAGE. IRRITATION: EYE-RABBIT 1MG SEVERE. SKIN: CAUSES SEVERE BURNS. ARGYRIA. PROLONGED EXPOSURE MAY RESULT I

N ULCERATIONS. INHALATION: MATERIAL

EXTREMELY DESTRUCTIVE TO TISSUE OF MUCOUS MEMBRANES & UPPER RESPIRATORY TRACT. INHALATION MAY BE FATAL AS RESULT OF SPASM, INFLAMMATION & EDEMA OF LARYNX & BRONCHI, CHEMICAL PNEUMONITIS & PULMONARY EDEMA. SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGH, LARYNGITIS, DYSPNEA, HEADACHE, NAUSEA AND VOMITING. (SIGNS AND SYMPTOMS OF OVEREXPOSURE)

Effects of Overexposure:HEALTH HAZARDS (CONT'D): ARGYRIA. INGESTION: BURNS IN MO

UTH, PHARYNX & GASTROINTESTINAL TRACT. ABDOMINAL PAIN, GASTROENTERITIS. MAY BE FATAL. CHRONIC: KIDNEY DAMAGE. POSSIBLE MUTAGEN. ARGYRIA. TO THE BEST OF COMPANY'S KNOWLEDGE, CHRONIC TOXICITY OF THIS SUBSTANCE HAS NOT BEEN FULLY INVESTIGATED.

===== First Aid Measures =====

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. S

KIN: WASH SKIN WITH COPIOUS QUANTITIES OF WATER FOR AT LEAST 15 MIN. REMOVE CONTAMINATED CLOTHING. CALL A PHYSICIAN. INHALATION: REMOVE PATIENT TO FRESH AIR. ADMINISTER APPROVED OXYGEN SUPPLY IF BREATHING IS DIFFICULT. ADMINISTER ARTIFICIAL RESPIRATION OR CPR IF BREATHING HAS CEASED. CALL A PHYSICIAN. INGESTION: IF CONSCIOUS, WASH OUT MOUTH WITH WATER. DO NOT INDUCE VOMITING. CALL A PHYSICIAN.

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

Autoig

Ignition Temp: Autoignition Temp Text: NOT AP

Lower Limits: NOT APPLICABLE

Upper Limits: NOT APPLICABLE

Extinguishing Media: WATER SPRAY. FIRE DEGRADATION PRODUCTS: OXIDES OF NITROGEN. SILVER.

Fire Fighting Procedures: WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN A PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE. WEAR ADEQUATE PERSONAL PROTECTION TO PREVENT CONTACT WITH MATERIAL OR ITS COMBUSTION PRODUCTS.

Unusual Fire/Explosion Hazard: POWERFUL

OXIDIZING AGENT; MAY IGNITE

OXIDIZABLE MATERIALS. CONTRIBUTES TO COMBUSTION OF OTHER MATERIALS. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE AND/OR EXPLOSION. EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

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

Spill Release Procedures: WEAR SCBA, RUBBER BOOTS & HEAVY RUBBER GLOVES. EVACUATE AREA. ELIMINATE ALL SOURCES OF IGNITION. SWEEP UP & PLACE IN CONTAINER FOR DISPOSAL. AVOID RAISING DUST. USE NON-SPARKING TOOL

S. VENT AREA/WASH SPILL SITE AFTER MATERIAL PICKUP. DO NOT EMPTY INTO DRAINS. DO NOT TOUCH SPILLED MATL. SPILLS OF SILVER NITRATE MUST BE PROMPTLY REMOVED. AVOID CONTACT W/COMBUSTIBLE MATL (WOOD, PAPER, OIL, CLOTHING).

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

Handling and Storage Precautions: STORE IN A COOL, WELL-VENTILATED PLACE AWAY FROM HEATED AREAS, SPARKS, FLAME & INCOMPATIBLE MATERIALS. DO NOT ADD ANY OTHER MATERIAL TO CONTAINER. DO NOT WAS

H DOWN

DRAIN/BREATHE DUST. KEEP AWAY FROM DIRECT SUNLIGHT/STRONG INCANDESCENT LIGHT. KEEP AWAY FROM COMBUSTIBLE MATERIAL. (OTHER PRECAUTIONS)

Other Precautions: HAND/STOR (CONT'D): KEEP CONTAINER TIGHTLY CLOSED & DRY. MANIPULATE UNDER ADEQUATE FUME HOOD. AVOID RAISING DUST. EMPTY CONTAINERS MAY CONTAIN HAZARDOUS RESIDUE. PRODUCT HIGHLY HYGROSCOPIC. AVOID CONTACT WITH COMBUSTIBLE MATERIALS (WOOD, PAPER, OIL, CLOTHING). MINIMIZE DUST GENERATION & EXPOSURE. (SARA)

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

Respiratory Protection:A NIOSH-APPROVED RESPIRATOR APPROPRIATE FOR THE EXPOSURE OF CONCERN . A OSHA APPROVED RESPIRATOR IS ADVISED IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROLS. IF MORE THAN TLV, DO NOT BREATHE VAP OR. WEAR SELF-CONTAINED BREATHING APPARATUS.

Ventilation:USE ONLY IN CHEMICAL FUME HOOD TO KEEP AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS.

Protective Gloves:IMPERVIOUS GLOVES . RUBBER GLOVES

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

Other Protective Equipment:PROTECTIVE CLOTHING: IMPERVIOUS APRON, COVERALLS/OTHER RESISTANT, PROTECTIVE CLOTHING. SUFFICIENT TO PROTECT SKIN. MAKE ANSI APPROVED EYE BATH & EMERGENCY SHOWER AVAILABLE. RUBBER SUITS/BOOTS.

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.

Supplemental Safety and Health

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

Boiling Pt:=444.C, 831.2F

B.P. Text:DECOMPOSES AT 444C

Melt/Freeze Pt:=212.C, 413.6F

Vapor Density:NOT APPLIC

Spec Gravity:4.35 (WATER=1)

Evaporation Rate & Reference:NOT AVAILABLE

Solubility in Water:EASILY IN COLD WATER.

Appearance and Odor:WHITE ODORLESS CRYSTALLINE POWDER.

Percent Volatiles by Volume:NOT APPLICAB

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

Stability Indicator/Materials to Avoid

:YES

ORGANIC MATERIALS, AMMONIA, AMMONIUM HYDROXIDE, ACETYLENE, ACETYLIDES, CREOSOTE, CHARCOAL, ALCOHOLS, CHLORIDES, CARBONATES, BROMIDES, IODIDES, ARSENITES, MORPHINE SALTS, TANNIC ACID, TARTRATES, ANTIMONY SALTS, FERROUS SALTS

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

Hazardous Decomposition Products:HAZARDOUS DECOMP PRODUCTS: NOT AVAILABLE. REACTION PRODUCTS: CONT

ACT W/AMMONIA MAY FORM SHOCK

SENSITIVE MIXTURES. CONTACT W/OTHER MATERIAL MAY CAUSE FIRE &/OR EXPLOSION. CORROSIVE (SEE POLYMERIZATION)

Conditions to Avoid Polymerization:WILL NOT OCCUR. HAZARDOUS

DECOMPOSITION PRODUCTS (CONT'D): TO METALS. MAY DECOMPOSE ON EXPOSURE TO LIGHT.

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

Toxicological Information:TOXICITY VALUES OF HAZARDOUS INGREDIENTS:

SILVER NITRATE: ORAL (LD50): ACUTE: 50 MG/KG (MOUSE).

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RAPERITONEAL (LD50): ACUTE: 23783 UG/KG (MOUSE). UNREPORTED

(LDLO): ACUTE: 29 MG/KG (MAN).

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

Ecological:MATERIAL TO AVOID (CONT'D): CHLOROSULFONIC ACID, ARSENIC POWDER, CHLORINE TRIFLUORIDE, PHOSPHONIUM IODIDE, MAGNESIUM, SULFUR, PHOSPHINE, METALS, ALKALIES, PLASTICS, BORON PHOSPHIDE, CYANIDES, ESTERS, PHOSPHAM, PHOSPHORUS, SODIUM CYANIDE, HYPOPHOSPHITES, STANNOUS CHLORIDE, THIOCYANATES, ISOTHIOCYANATES,

REDUCING AGENTS, COMBUSTIBLE MATERIALS, EASILY OXIDIZABLE MATERIALS, CITRIC ACID, NITRITES, PHOSPHINATES, ALUMINUM, CARBIDES, PHOSPHORUS ISOCYANATE, NITROMETHANE, HYDROGEN PEROXIDE, ACRYLONITRILE, NON-METALS, 1,3-BUTADIENE, PHOSPHATES, BUTEN-3-YNE.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS . MATERIAL IN ELEMENTAL STATE SHOULD BE RECOVERED AND EITHER RESUSED OR RECYCLED.

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

Transport Information:TDG ROAD/RAIL: TDG CLASS: 5.1 9.2. PIN: UN1493.

PG: II.

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

SARA Title III Information:N/P. OTHER PRECAUTIONS (CONT'D): USE DUST MASK OR APPROPRIATE PROTECTION. HANDLE & OPEN CONTAINER WITH CARE. DO NOT USE PRESSURE TO DISPENSE. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. WASH WELL AFTER USE. IN ACCORDANCE WI

TH GOOD STORAGE &

HANDLING PRACTICES. DO NOT ALLOW SMOKING OR FOOD CONSUMPTION WHILE HANDLING. SPECIAL PRECAUTIONS: POWERFUL OXIDIZING AGENT; MAY IGNITE OXIDIZING MATERIALS. HIGH LY TOXIC! CORROSIVE! DO NOT BREATHE DUST. AVOID ALL CONTACT W/ PRODUCT. AVOID PROLONGED OR REPEATED EXPOSURE. USE ONLY IN A CHEMICAL FUME HOOD. KEEP AWAY FROM HEAT, SPARKS AND FLAME. CONTACT WITH OTHE R MATERIAL MAY CAUSE FIRE (FEDERAL REG)

Federal Regulatory Information:WHMIS CLASS: C D-1A E.

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(CONT'D): AND/OR EXPLOSION. WHEN CONTAMINATED, IT IS VERY SENSITIVE. LIGHT SENSITIVE. HANDLE AND OPEN CONTAINER WITH CARE. HARMFUL TO AQUATIC LIFE AT LOW CONCENTRATIONS . CAN BE DANGEROUS IF ALLOWED TO ENTER DRINKING WATER INTAKES. DO NOT CONTAMINATE DOMESTIC OR IRRIGATION WATER SUPPLIES, LAKES, STREAMS, PONDS OR RIVERS. RTECS NO: VW4725000.

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

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iling agencies):

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