

ENVIRONMENTAL TECHNOLOGIES GROUP INC -- SILVER METAL AND SOLUBLE SILVER  
COMPOUNDS (SILVER NITRATE) -- 6665-00-859-2214

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

Product ID:SILVER METAL AND SOLUBLE SILVER COMPOUNDS (SILVER NITRATE)

MSDS Date:09/01/1978

FSC:6665

NIIN:00-859-2214

Kit Part:Y

MSDS Number: BXWCR

=== Responsible Party ===

Company Name:ENVIRONMENTAL TECHNOLOGIES GROUP INC

Address:1400 TAYLOR

AVE

Box:9840

City:BALTIMORE

State:MD

ZIP:21284-9840

Country:US

Info Phone Num:301-321-5200

Emergency Phone Num:301-321-5200

CAGE:23667

=== Contractor Identification ===

Company Name:ENVIRONMENTAL TECHNOLOGIES GROUP INC

Address:1400 TAYLOR AVE

Box:9840

City:BALTIMORE

State:MD

ZIP:21284-9840

Country:US

Phone:301-321-5200

CAGE:23667

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

Ingred Name:SILVER NITRATE (SARA 313) (CERCLA)

CAS:7761-88-8

RTECS #:VW4725000

Fraction by Wt: 10

0%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:0.01 MG(AG)/M3  
ACGIH TLV:0.01 MG(AG)/M3; 9495  
EPA Rpt Qty:1 LB  
DOT Rpt Qty:1 LB

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

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 CAUSE IRRITATION, ULCERS  
AND DISCOLORATION OF SKIN. IF INGESTED, MAY CAUSE ABDOMINAL PAIN  
AND GASTROENTERITIS. CHRONIC: PROLONGED OR REPEATED  
EXPSOURE MAY  
CAUSE ARGYRIA (DISCOLORATION/PIGME NTATION).  
Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1%  
OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.  
Effects of Overexposure:IRRITATION, ULCERS, DISCOLORATION OF SKIN;  
ABDOMINAL PAIN, GASTROENTERITIS.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:EYES-FLUSH WITH LOTS OF WATER FOR 15 MINUTES,  
LIFT LIDS. GET  
MEDICAL ATTENTION IMMEDIATELY. SKIN-REMOVE CONTAMINATED CLOTHES.  
FLUSH WITH WATER. GET MEDICAL ATTENTION IF SYMPTOMS DEVELOP.  
INHALED-REMOV E TO FRESH AIR. IF BREATHING STOPPED, GIVE ARTIFICIAL  
RESPIRATION. GET MEDICAL ATTENTION. INGESTED-DO NOT INDUCE  
VOMITING! IF CONSCIOUS, GIVE LOTS OF WATER. GET IMMEIDATE MEDICAL  
ATTENTION.

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

Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FI  
RE.  
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND  
FULL PROTECTIVE GEAR. COOL FIRE EXPOSED CONTAINERS WITH WATER.  
Unusual Fire/Explosion Hazard:SILVER NITRATE IS A STRONG OXIDING  
MATERIAL CAPABLE OF INCREASING THE FLAMMABILITY OF COMBUSTIBLE,  
ORGANIC OR OTHER READILY OXIDIZABLE MATERIALS.

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

Spill Release Procedures:ISOLATE & DENY ENTRY. WEAR PROPER PROTECTIVE  
CLOTHING/EQUIPMENT. VENTILATE AR

EA OF SPILL OR LEAK. ABSORB ON  
INERT MATERIAL AND PLACE IN A CONTAINER FOR LATER DISPOSAL.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL-VENTILATED  
PLACE AWAY FROM HEAT AND INCOMPATIBLE MATERIALS.  
Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:IF ENGINEERING CO  
NTROLS FAIL OR NON-ROUTINE USE  
OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED RESPIRATOR OR  
AN AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IN ACCORDANCE  
WITH 29 CFR 1910.13 4 AND MANUFACTURER'S RECOMMENDATIONS.

Ventilation:USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO  
MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:NEOPRENE.

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES.

Other Protective Equipment:EYE WASH STATION & SAFETY SHOWER. RUBBER  
BOOTS,  
APRON.

Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING,  
DRINKING, OR SMOKING. LAUNDRER CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

KEY1=D1. MSDS IF PART D OF 4 PART KIT. HCC IS BASED ON PNI B. NOTE:  
DISPOSAL DATA- EPA/RCRA WASTE NUMBER D011 MAY APPLY TO  
UNUSED/UNCONTAMINATED PRODUCT (PER DEMIL INTRUCTIONS).

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

HCC:D1

Boiling Pt:B.P. Text:772F,411C

Melt/Freeze Pt:M.P/F.P Text:4  
08F,209C

Decomp Temp:Decomp Text:772F,411C

Vapor Pres:NEGLIGIBLE

Spec Gravity:4.4

Solubility in Water:APPRECIABLE

Appearance and Odor:COLORLESS TO GREY SOLID; ODORLESS.

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

Stability Indicator/Materials to Avoid:YES

ACETYLENE, AMMONIA, STRONG HYDROGEN PEROXIDE; MAY ATTACK SOME FORMS OF  
PLASTICS, RUBBER, COATINGS.

Stability Condition to Avoid:HEAT; CONTACT WITH INCOMPATIBLE MATERIALS.

Hazardous Decomposition Products:TOXIC GASE

S AND VAPORS (EG OXIDES OF  
NITROGEN) MAY BE RELEASED WHEN DECOMPOSED.  
Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:SILVER METAL AND SOLUBLE SILVER COMPOUNDS MAY BE  
DISPOSED OF IN SEALED CONTAINERS IN A SECURED SANITARY LANDFILL.  
DEMILITARIZATION WILL BE PER DRMS-H 4160.3 VOL 1 CHAPTER XVIII-3,  
SEPTEMBER 1990.

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