



# TECHNIC, INC.

## MATERIAL SAFETY DATA SHEET

### SECTION I

### PRODUCT IDENTIFICATION

TRADE NAME (as labeled): **434 HS RTU**  
CHEMICAL NAMES, COMMON NAMES: Potassium Aurocyanide, Potassium Oxalate  
MANUFACTURER'S NAME & ADDRESS: Product Code No. X6763600  
TECHNIC, INC.  
1 SPECTACLE STREET  
CRANSTON, RI 02910  
EMERGENCY PHONE: (401)781-6100  
24 hour Emergency: Chem Trec 1-800-424-9300

NAME OF PREPARER: **WILLIAM A. WILSON**

DATE PREPARED: March 30, 1998

### SECTION II

### HAZARDOUS INGREDIENTS

CHEMICAL NAMES	CAS NUMBER	PERCENT	EXPOSURE LIMITS
Potassium Aurocyanide <chem>KAu(CN)2</chem>	13967-50-5	Variable	TLV = 5 mg/M <sup>3</sup> ACGIH
Potassium Oxalate <chem>K2C2O4</chem>	583-52-8	<5.00%	TLV = Not established. OEL-hmn: LDL <sub>O</sub> = 50 mg/kg

This product is regulated as a toxic chemical under Section 313 of Title III/SARA and 40 CFR, Part 372.  
This product is not regulated by the California Proposition 65 list.  
All ingredients are listed in the TSCA inventory.  
For purposes of the New Jersey Right To Know Law, the contents are partially unknown.

### SECTION III

### PHYSICAL PROPERTIES

VAPOR DENSITY (AIR=1)	N.A.	SPECIFIC GRAVITY:	1.15
VAPOR PRESSURE (mm Hg)	N.A.	MELTING POINT (degrees F)	N.A.
EVAPORATION RATE (BUTYL ACETATE=1)	N.A.	BOILING POINT (degrees F)	N.D.
SOLUBILITY IN WATER:	Miscible.	pH	= 5.5-6.5
APPEARANCE AND ODOR:	Slightly yellow solution; odorless.		

### SECTION IV

### FIRE AND EXPLOSION

FLASH POINT (°F) (METHOD USED): N.A. (Does not burn.)  
AUTOIGNITION TEMPERATURE, F. N.A.  
FLAMMABLE LIMITS IN AIR, VOLUME %: LOWER LIMIT N.A. UPPER LIMIT N.A.  
FIRE EXTINGUISHING MATERIALS: Does not burn. Use media appropriate for the surrounding fire.

       WATER SPRAY        CARBON DIOXIDE        OTHER:  
       FOAM        DRY CHEMICAL

#### SPECIAL FIREFIGHTING PROCEDURES:

Wear a NIOSH/MSHA approved, self-contained breathing apparatus and protective gear if fully involved in a fire. Do not use carbon dioxide extinguishers.

#### UNUSUAL FIRE AND EXPLOSION HAZARDS:

Do not allow water from fire fighting to come in contact with acid media such as water in a sewer; poisonous hydrogen cyanide (HCN) gas may be evolved.

## SECTION V HEALTH HAZARD INFORMATION

## SYMPTOMS OF OVER-EXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE.

INHALATION: Weakness, dizziness, headache, vomiting, unconsciousness and death.

CONTACT WITH SKIN OR EYES: "Cyanide Rash" - itching, macular, papular and vesicular eruptions. There are often secondary infections.

ABSORBED THROUGH SKIN: Same as inhalation and skin contact.

SWALLOWED: May cause death or permanent injury from small quantities. (If detected early: vomiting or unconsciousness.)

## HEALTH EFFECTS OR RISKS FROM EXPOSURE. EXPLAIN IN LAY TERMS. ATTACH EXTRA PAGE IF MORE SPACE IS NEEDED.

ACUTE: Local: Irritant that causes readily reversible changes which disappear after end of exposure.

Systemic: Ingestion or inhalation may cause death or permanent injury after a very short exposure to small quantities.

CHRONIC: Local: Irritant that may cause both reversible and irreversible changes; but not severe enough to cause death or permanent injury.

Systemic: Ingestion or inhalation can cause readily reversible changes which disappear after end of exposure.

## FIRST AID: EMERGENCY PROCEDURES

EYE CONTACT: Flush eyes with water (15 minutes or longer). Call physician.

SKIN CONTACT: Wash thoroughly with soap and water. Call physician.

INHALED: Treat 5 times at 15 second intervals with amyl nitrite broken in cloth. Artificial respiration if necessary. Call physician.

SWALLOWED: If conscious, give emetic (1 tablespoon salt to a glass of warm water). Repeat until vomit fluid is clear. Call physician.

SUSPECTED CANCER AGENT?  X  NO   YES

## SECTION VI REACTIVITY DATA

STABILITY:  X  STABLE   UNSTABLE

CONDITIONS TO AVOID: Do not mix with strong acids, acid fumes or steam.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS (INCLUDING COMBUSTION PRODUCTS): Hydrogen cyanide, carbon oxides, nitrogen oxides, sulfur oxides.

HAZARDOUS POLYMERIZATION:   MAY OCCUR  X  WILL NOT OCCUR

CONDITIONS TO AVOID: None.



**SECTION VII** **SPILL, LEAK AND DISPOSAL PROCEDURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Collect and send to Technic, Inc. for refining - contains gold. Treat as a complexed cyanide.  
For employee protection, see Section VIII.

**WASTE DISPOSAL: SHOULD BE IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS.****SECTION VIII** **SPECIAL HANDLING INFORMATION**

VENTILATION:	Use local exhaust.
RESPIRATORY PROTECTION:	Optional (NIOSH/MSHA approved respirator in a major spill)
EYE PROTECTION:	Safety glasses or goggles.
GLOVES:	Rubber gloves.
OTHER CLOTHING AND EQUIPMENT:	Rubber apron.
WORK PRACTICES, HYGIENIC PRACTICES:	Wash thoroughly before eating or smoking.
OTHER HANDLING AND STORAGE REQUIREMENTS:	Store in a cool, dry place away from strong acids and food products.  Temperature = 55-85 °F.

HMS\*

