



TECHNIC, INC.

MATERIAL SAFETY DATA SHEET

SECTION 1

PRODUCT IDENTIFICATION

TRADE NAME (AS LABELED): TECHNISTAN AG SILVER CONCENTRATE

CHEMICALS NAMES, COMMON NAMES:

PRODUCT CODE: 405425

MANUFACTURER'S NAME & ADDRESS:

PREPARED BY: ALLAN H. REED

TECHNIC INC.

DATE PREPARED: July 20, 2009

1 SPECTACLE STREET

CRANSTON, RI 02910

EMERGENCY PHONE: 401-781-6100

24 HOUR EMERGENCY: CHEM TREC 800-424-9300

OUTSIDE THE USA AND CANADA: 703-527-3887

SECTION 2

COMPOSITION / INFORMATION ON INGREDIENTS

<u>CHEMICAL NAMES</u>	<u>CAS NUMBER</u>	<u>PERCENT</u>	<u>EXPOSURE LIMITS</u>
Silver methanesulfonate	2386-52-9	20-40%	0.01 mg/m ³ (Ag) ACGIH TWA, OSHA PEL
Methanesulfonic acid	75-75-2	1-10%	None reported

SECTION 3

HAZARD IDENTIFICATION

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

INHALATION: May cause irritation of the respiratory tract.

CONTACT WITH SKIN OR EYES: Causes blackening of the skin with possible mild burns. Causes severe eye irritation, redness and pain; may cause eye damage.

ABSORBED THROUGH SKIN: Causes blackening and mild burns.

SWALLOWED: Causes pain and burning in mouth, blackening of the skin and mucous membranes, nausea, vomiting, diarrhea and possible shock symptoms.

SUSPECTED CANCER AGENT? X NO YES

HEALTH EFFECTS OR RISKS FROM EXPOSURE. EXPLAIN IN LAY TERMS.

ACUTE: See symptoms of over-exposure above.

CHRONIC: Prolonged or repeated over-exposure may cause a bluish discoloration of the skin, eyes, and mucous membranes. Persons with pre-existing skin disorders or eye problems may be more susceptible to the effects of this material.

SECTION 4**FIRST AID MEASURES****FIRST AID: EMERGENCY PROCEDURES**

EYE CONTACT: Flush with water, including under lids, for fifteen minutes. Obtain immediate medical attention.

SKIN CONTACT: Remove contaminated clothing and wash affected area thoroughly with soap and water. Launder clothing before rewearing. Seek medical attention for prolonged skin irritation.

INHALED: Remove patient to fresh air. Support breathing if required. Obtain medical treatment for dizziness, unconsciousness or irritation or difficulty in breathing.

SWALLOWED: If patient is conscious, rinse mouth and drink at least two large glasses of water. **DO NOT** induce vomiting. Never give anything by mouth to an unconscious person. Obtain immediate medical attention.

SECTION 5**FIRE FIGHTING MEASURES**

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: Use media appropriate for the surrounding fire.

WATER CARBON DIOXIDE OTHER

FOAM DRY CHEMICAL

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus and full protective gear if fully involved in a fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Corrosive fumes and vapors may be released at high temperatures.

SECTION 6**ACCIDENTAL RELEASE MEASURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear appropriate personal protective gear. Contain spilled material and collect by absorption or other suitable method. Flush spill area with water. Do not allow this material or its rinsings to enter storm or sanitary sewers or other waterways.

SECTION 7**HANDLING AND STORAGE**

HANDLING AND STORAGE REQUIREMENTS: Store in a cool, dry place away from direct sunlight. Keep containers tightly closed except when transferring contents.

SECTION 8**EXPOSURE CONTROLS / PERSONAL PROTECTION**

VENTILATION: Local and general exhaust to meet exposure limits.

RESPIRATORY PROTECTION: Wear respirator if ventilation is inadequate.

EYES PROTECTION: Chemical splash goggles or full face shield.

GLOVES: Rubber gloves.

OTHER CLOTHING AND EQUIPMENT: Rubber apron.

WORK PRACTICES, HYGIENIC PRACTICES: Wash hands thoroughly with soap and water after handling and before eating or smoking.

SECTION 9**PHYSICAL / CHEMICAL PROPERTIES**

VAPOR DENSITY (AIR =1): N.D.

SPECIFIC GRAVITY: 1.25-1.40

VAPOR PRESSURE (MM Hg): N.D.

MELTING POINT (°F): N.D.

EVAPORATION RATE (BUTYL ACETATE=1): N.D.

BOILING POINT (°F): >212 °F

SOLUBILITY IN WATER: Complete

pH: <2.0

APPEARANCE AND ODOR: Clear, colorless to pale yellow liquid; faint sulfur oxide odor.

SECTION 10**STABILITY AND REACTIVITY**

STABILITY: STABLE UNSTABLE

CONDITIONS TO AVOID: None.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong acids and bases.

HAZARDOUS DECOMPOSITION PRODUCTS (INCLUDING COMBUSTION PRODUCTS):
Oxides of silver, carbon and sulfur.

HAZARDOUS POLYMERIZATION: MAY OCCUR WILL NOT OCCUR

SECTION 11**TOXICOLOGICAL INFORMATION**

ACUTE EFFECTS: See section 3.
IRRITATION DATA: See section 3.
TOXICITY DATA: Oral LD50: 1158 mg/kg (rat, methane sulfonic acid)
TARGET ORGAN DATA: See section 3.

SECTION 12**ECOLOGICAL INFORMATION**

This material may be toxic to aquatic life.

SECTION 13**DISPOSAL CONSIDERATIONS**

Dispose of all chemical wastes at an appropriate waste disposal facility. Follow all local, state, and federal regulations for disposal of waste chemicals.

SECTION 14**TRANSPORT INFORMATION**

Classification for shipment by road or rail, sea (IMDG) and air (IATA/ICAO):

Proper Shipping Name: Corrosive Liquid, N.O.S. (Methane Sulfonic Acid, Metallic Mixture)

Hazard Class: 8

Identification Number: UN1760

Packaging Group: III

SECTION 15**REGULATORY INFORMATION**

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 the purposes of the New Jersey Right to Know Law, the contents are partially known.

SECTION 16**OTHER INFORMATION**

H Health	2
F Flammability	0
R Reactivity	0
Personal Protection	C