LTS (CHEMICAL) INC. MATERIAL SAFETY DATA SHEET SILVER TELLURIDE

______ GENERAL

MANUFACTUER/SUPPLIER: LTS RESEARCH LABORATORIES, INC.

COMPANY'S STREET: 37 RAMLAND ROAD COMPANY'S CITY: ORANGEBURG COMPANY'S STATE:

COMPANY'S STATE:

COMPANY'S ZIP CODE:

EMERGENCY CHEMTREC #:

COMPANY'S EMERGENCY TEL. #:

800-262-8200

800-424-9300 (LOCAL)

703-527-3887 (INTERNATIONAL)

COMPANY'S TEL #: 845-494-2940 DATE MSDS PREPARED: 11/1/12

1. PRODUCT IDENTIFICATION

PRODUCT NAME: SILVER TELLURIDE

SYNONYMS: DISILVER TELLURIDE, TELLURODISILVER

FORMULA: Ag2Te CAS #: 12002-99-2 MOLECULAR WEIGHT: 343.34

2. PHYSICAL AND CHEMICAL CHARACTERISTICS

N/A BOILING POINT: MELTING POINT: 955C

8.5 g/cm3 SPECIFIC GRAVITY (H₂O=1): N/A 🛂 🕹 🏖 VAPOR DENSITY: 0.001 mmHg VAPOR PRESSURE: **EVAPORATION RATE** N/A % VOLATILES: N/A

INSOLUBLE SOLUBILITY IN H₂O:

BLACK, SPUTTERING TARGET, PIECES, POWDER, APPEARANCE AND ODOR:

ODORLESS

T TOXIC

______ 3. HAZARD IDENTIFICATION

HAZARD DESCRIPTION:

RISK PHRASES: R23/24/25 TOXIC BY INHALATION. IN CONTACT WITH SKIN

AND IF SWALLOWED

HMIS RATINGS:

0 HEALTH: FLAMMABILITY: 0 REACTIVITY: 0

4. FIRE FIGHTING MEASURES

FLASH POINT: N/A **AUTOIGNITION TEMPERATURE:** N/A

FLAMMABLE LIMITS:

UPPER: N/A LOWER: N/A

EXTINGUISHING MEDIA: PRODUCT IS NOT FLAMMABLE. USE FIREFIGHTING

MEASURES THAT SUIT THE CURROUNDING FIRE. USE WATER SPRAY, ALCOHOL RESISTANT FOAM, DRY

CHEMICAL OR CARBON DIOXIDE

SPECIAL HAZARDS: IN CASE OF FIRE, TELLURIUM OXIDE MAY BE RELEASED

5. H	EALTH HAZARD INFORMATION
EMERGENCY OVERVIEW:	MAY BE HARMFUL IF SWALLOWED. CHRONIC EXPOSURE MAY LEAD TO A SKIN DISCOLORATION. INHALATION OF DUST MAY CAUSE GARLIC ODOR OF BREATH, METALLIC TASTE, SLEEPINESS, HEADACHE AND NAUSEA.
PRIMARY ROUTES OF EXPOSURE: EYE CONTACT: SKIN CONTACT: INHALATION:	INGESTION, INHALATION, SKIN, AND EYES. MAY BE A MILD TO MODERATE IRRITANT TO THE EYES. MAY CAUSE SLIGHT IRRITATION OF THE SKIN. INHALATION OF DUST CAN LEAD TO IRRITATION OF THE RESPIRATORY TRACT GARLIC ODOR OF BREATH, METALLIC TASTE, SLEEPINESS, HEADACHE AND NAUSEA.
INGESTION:	INGESTION OF ONLY MODERATE AMOUNTS OF TELLURIUM MAY LEAD TO NAUSEA, VOMITING, BLOODY DIARRHEA, WEAKNESS, AND DEATH.
ACUTE HEALTH EFFECTS:	MAY CAUSE GARLIC ODOR OF BREATH, METALLIC TASTE, SLEEPINESS, HEADACHE AND NAUSEA.
CHRONIC HEALTH EFFECTS:	LONG TERM EXPOSURE TO SILVER AND SILVER SALTS CAN LEAD TO THE CONDITION KNOWN AS ARGYRIA-A GENERAL GRAY PIGMENTATION OF THE SKIN AND MUCOUS MEMBRANES. PROLONGED EXPOSURE TO TELLURIUM MAY CAUSE DROWSINESS AND LOSS OF APPETITE. SOLUBLE TELLURIUM COMPOUNDS CAN BE ABSORBED THROUGH THE SKIN, AS WELL AS INHALED OR INGESTED AS A FUME. EXPOSURE CAN PRODUCE MILD GASTROINTESTINAL DISTRESS, GARLIC ODOR OF THE BREATH, DRYNESS OF THE MOUTH, METALLIC TASTE AND DROWSINESS.
	6. STABILITY
STABILITY: CONDITIONS TO AVOID: MATERIAL TO AVOID: DANGEROUS REACTIONS:	STABLE NONE STRONG MINERALS, OXIDIZING AGENTS NONE KNOWN
HAZARDOUS DECOMPOSITION PRODUCTS:	TELLURIUM OXIDE
7. EMERC	GENCY AND FIRST AID PROCEDURES:
INHALATION:	REMOVE TO FRESH AIR AND PROVIDE ARTIFICIAL RESPIRATION IF NECESSARY. SEEK IMMEDIATE MEDICAL ADVICE.
INGESTION: SKIN:	SEEK IMMEDIATE MEDICAL ATTENTION. WASH SKIN THOROUGHLY WITH MILD SOAP AND WATER. RINSE THOROUGHLY. SEEK IMMEDIATE MEDICAL ADVICE.
EYE:	FLUSH EYES WITH PLENTY OF WATER. SEEK IMMEDIATE MEDICAL ADVICE.
	8. HANDLING AND STORAGE
HANDLING & STORAGE:	STORE IN A COOL, DRY PLACE IN TIGHTLY SEALED CONTAINERS. ENSURE GOOD VENTILATION. NO SPECIAL REQUIREMENTS ARE NECESSARY IF USED CORRECTLY.
9.	SPILL OR LEAK PROCEDURES

RELEASED OR SPILLED:

RESPIRATION: WEAR NIOSH APPROVED DUST-MIST VAPOR RESPIRATOR. VENTILATION: LOCAL EXHAUST TO MAINTAIN CONCENTRATION AT OR

BELOW THE PEL, TLV.

PROTECTIVE GLOVES: RUBBER GLOVES. EYE PROTECTION: SAFETY GLASSES

PROTECTIVE CLOTHING: PROTECTIVE GEAR SUITABLE TO PREVENT

CONTAMINATION.

WASTE DISPOSAL METHOD: DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND

FEDERAL REGULATIONS.

10. TOXICITY DATA

OSHA (PEL) 0.1mg/m3 (AS Te)
ACGIH (TWA) 0.1mg/m3 (AS Te)
TLV 0.1mg/m3 (AS Te)

CARCINOGENICITY: NO CLASSIFICATION DATA ON CARCINOGENIC PROPERTIES

OF THIS MATERIAL IS AVAILABLE FROM THE EPA, IARC,

NTP.

ADDITIONAL INFORMATION: TO THE BEST OF OUR KNOWLEDGE THE ACUTE AND

CHRONIC TOXICITY OF THIS SUBSTANCE IS NOT FULLY

KNOWN.

11. TRANSPORTATION DATA

REGULATED FOR POWDER

PROPER SHIPPING NAME: TOXIC SOLID, INORGANIC, N.O.S.

UN NUMBER: 3288 HAZARD CLASS: 6.1 PACKING GROUP: III

ADR//RID CLASS: 6.1 (T5) TOXIC SUBSTANCES

IMDG CLASS: 6.1 ICAO/IATA CLASS: 6.1

12. OTHER INFORMATION

THIS SAFETY DATA SHEET SHOULD BE USED IN CONJUNCTION WITH TECHNICAL SHEETS. IT DOES NOT REPLACE THEM. THE INFORMATION GIVEN IS BASED ON OUR KNOWLEDGE OF THIS PRODUCT, AT THE TIME OF PUBLICATION. IT IS GIVEN IN GOOD FAITH. THE ATTENTION OF THE USER IS DRAWN TO THE POSSIBLE RISKS INCURRED BY USING THE PRODUCT FOR ANY OTHER PURPOSE OTHER THAN THAT FOR WHICH IT WAS INTENDED. THIS DOES NOT IN ANY WAY EXCUSE THE USER FROM KNOWING AND APPLYING ALL THE REGULATIONS GOVERNING HIS ACTIVITY. IT IS THE SOLE RESPONSIBILITY OF THE USER TO TAKE ALL PRECAUTIONS REQUIRED IN HANDLING THE PRODUCT. THE AIM OF THE MANDATORY REGULATIONS MENTIONED IS TO HELP THE USER TO FULFILL HIS OBLIGATIONS REGARDING THE USE OF HAZARDOUS PRODUCTS.