SECTION 1. IDENTIFICATION

Product Name: Diethyltelluride

Product Number: All applicable American Elements product codes, e.g. 2ET-TE-02-LIQ, 2ET-TE-03-LIQ, 2ET-TE-04-LIQ, 2ET-TE-05-LIQ, 2ET-TE-06-LIQ

CAS #: 627-54-3

Relevant identified uses of the substance: Scientific research and development

Supplier details:
American Elements
10884 Weyburn Ave.
Los Angeles, CA 90024
Tel: +1 310-208-0551
Fax: +1 310-208-0351

Emergency telephone number:
+1 800-424-9300

SECTION 2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
Combustible (USA) Flammable (EU). Toxic. Toxic by inhalation, in contact with skin and if swallowed. Target organ(s): Kidneys. Liver.

HMIS RATING
HEALTH: 2*  FLAMMABILITY: 2  REACTIVITY: 0

NFPA RATING
HEALTH: 2  FLAMMABILITY: 2  REACTIVITY: 0

*additional chronic hazards present.
For additional information on toxicity, please refer to Section 11.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance Name CAS # SARA 313
DIETHYLTELLURIDE 627-54-3 No
Formula C4H10Te
Synonyms Diethyl telluride * Diethyltellurium * Ethyl
telluride (8CI) * 1,1'-Tellurobisethane
RTECS Number: KI8190000

SECTION 4. FIRST AID MEASURES

ORAL EXPOSURE
If swallowed, wash out mouth with water provided person is
conscious. Call a physician immediately.

INHALATION EXPOSURE
If inhaled, remove to fresh air. If not breathing give
artificial respiration. If breathing is difficult, give oxygen.

DERMAL EXPOSURE
In case of skin contact, flush with copious amounts of water for
at least 15 minutes. Remove contaminated clothing and shoes.
Call a physician.

EYE EXPOSURE
In case of contact with eyes, flush with copious amounts of
water for at least 15 minutes. Assure adequate flushing by
separating the eyelids with fingers. Call a physician.

SECTION 5. FIREFIGHTING MEASURES

FLAMMABLE HAZARDS
Flammable Hazards: Yes

EXPLOSION HAZARDS
Vapor may travel considerable distance to source of ignition and
flash back. Container explosion may occur under fire conditions.
Forms explosive mixtures in air.

FLASH POINT
108,000 °F 42,200 °C Method: closed cup

AUTOIGNITION TEMP
N/A

FLAMMABILITY
N/A

EXTINGUISHING MEDIA
Suitable: For small (incipient) fires, use media such as
"alcohol" foam, dry chemical, or carbon dioxide. For large
fires, apply water from as far as possible. Use very large
quantities (flooding) of water applied as a mist or spray; solid
streams of water may be ineffective. Cool all affected
containers with flooding quantities of water.

FIREFIGHTING
Protective Equipment: Wear self-contained breathing apparatus
and protective clothing to prevent contact with skin and eyes.
Specific Hazard(s): Emits toxic fumes under fire conditions.
Vapor may travel considerable distance to source of ignition and
flash back.
Specific Method(s) of Fire Fighting: Use water spray to cool
SECTION 6. ACCIDENTAL RELEASE MEASURES

PROCEDURE TO BE FOLLOWED IN CASE OF LEAK OR SPILL
Evacuate area. Shut off all sources of ignition.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)
Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP
Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors.
Ventilate area and wash spill site after material pickup is complete.

SECTION 7. HANDLING AND STORAGE

HANDLING
User Exposure: Do not breathe vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.

STORAGE
Suitable: Keep container closed. Keep away from heat, sparks, and open flame.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS
Safety shower and eye bath. Use nonsparking tools. Use only in a chemical fume hood.

PERSONAL PROTECTIVE EQUIPMENT
Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.
Hand: Compatible chemical-resistant gloves.
Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES
Wash thoroughly after handling. Remove and wash contaminated clothing promptly.

EXPOSURE LIMITS, RTECS
Country Source Type Value
USA ACGIH TWA 0.145549 MG/M3
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Physical State: Liquid
Color: Dark - yellow
Property Value At Temperature or Pressure
Molecular Weight 185.7000 AMU
pH N/A
BP/BP Range 137-138 °C 760,000 mmHg
MP/MP Range N/A
Freezing Point N/A
Vapor Pressure 9.3 mmHg 21,00 °C
Vapor Density N/A
Saturated Vapor Conc. N/A
SG/Density 1.5920 g/cm³
Bulk Density 1.592 kg/l 21,00 °C
Odor Threshold N/A
Volatile% N/A
VOC Content N/A
Water Content N/A
Solvent Content N/A
Evaporation Rate N/A
Viscosity N/A
Surface Tension N/A
Partition Coefficient N/A
Decomposition Temp. N/A
Flash Point 108,000 °F Method: closed cup
42,200 °C
Explosion Limits N/A
Flammability N/A
Autoignition Temp N/A
Refractive Index N/A
Optical Rotation N/A
Miscellaneous Data N/A
Solubility N/A
N/A = not available

SECTION 10. STABILITY AND REACTIVITY

STABILITY
Stable: Stable.
Materials to Avoid: Strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Tellurium oxides.
HAZARDOUS POLYMERIZATION
Hazardous Polymerization: Will not occur

SECTION 11. TOXICOLOGICAL INFORMATION

ROUTE OF EXPOSURE
Skin Contact: May cause skin irritation.
Skin Absorption: Toxic if absorbed through skin.
Eye Contact: May cause eye irritation.
Inhalation: Toxic if inhaled. Material may be irritating to mucous membranes and upper respiratory tract.
Ingestion: Toxic if swallowed.

TARGET ORGAN(S) OR SYSTEM(S)
Liver. Kidneys.

SIGNS AND SYMPTOMS OF EXPOSURE
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Increased liver enzymes. Dermatitis.

TOXICITY DATA
Oral
Rat
54,100000 mg/kg
LD50
Inhalation
Rat
24,000 mg/m3
LC50
Oral
Mouse
154,000000 mg/kg
LD50
Inhalation
Mouse
117,000 mg/m3
LC50

SECTION 12. ECOLOGICAL INFORMATION
No data available.

SECTION 13. DISPOSAL CONSIDERATIONS
APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION
Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

SECTION 14. TRANSPORT INFORMATION
DOT
Proper Shipping Name: Toxic liquids, flammable, organic, n.o.s.
UN#: 2929
Class: 6.1
Packing Group: Packing Group II
Hazard Label: Toxic substances.
Hazard Label: Flammable liquid
PIH: Not PIH
IATA
Proper Shipping Name: Toxic liquid, flammable, organic, n.o.s.
IATA UN Number: 2929
Hazard Class: 6.1
Packing Group: II

SECTION 15. REGULATORY INFORMATION

EU ADDITIONAL CLASSIFICATION
Symbol of Danger: T
Indication of Danger: Toxic.
R: 10-23/24/25
Risk Statements: Flammable. Toxic by inhalation, in contact with skin and if swallowed.
S: 36/37-45
Safety Statements: Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

US CLASSIFICATION AND LABEL TEXT
Indication of Danger: Combustible (USA) Flammable (EU). Toxic.
Risk Statements: Toxic by inhalation, in contact with skin and if swallowed.
Safety Statements: Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

UNITED STATES REGULATORY INFORMATION
SARA LISTED: No
TSCA INVENTORY ITEM: Yes

CANADA REGULATORY INFORMATION
WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.
DSL: No
NDSL: No

SECTION 16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2019 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.