Safety Data Sheet (SDS)

Revision / Review Date: 5/25/15

1. Chemical Product and Company Identification

Product Name:	TDEC
Distributed By:	HB Chemical 1665 Enterprise Parkway Twinsburg Oh 44087 Phone - 330-920-8023
SDS Prepared By (w Suppliers Input):	HB Chemical
Chemical Name / Family:	Tellurium Diethyldithiocarbamate
Molecular Formula:	C20H40N4S8Te
Molecular Weight via GPC, Mn:	721.0
Product Use:	Accelerator
OSHA Status:	Not available
CAS No:	20941-65-5
EC No:	244-121-9

For emergency health, safety, and environmental information, calls 330-920-8023
For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300

2. Hazard(s) Identification

Warning:	Not available.
Signs and Symptoms of Exposure:	Can include redness, swelling, pain, and tearing. May cause headache, dizziness, nausea, vomiting, gastrointestinal irritation. May cause metallic taste. May cause weakness.
GHS Classification:	No data available for pictogram and signal.
Primary Routes of Entry:	Skin, eyes and inhalation.
Overview:	May cause long-term adverse effects in the aquatic environment. May cause irritation or sensitization by skin contact. Irritating to eyes, respiratory system and skin. Combustible dust / explosion potential. Causes respiratory irritation. This material may cause transient skin and eye irritation. May cause alcohol intolerance.
Medical Conditions Generally Aggravated by Exposure:	Alcohol consumption problems. Pulmonary disorders.
Eye Contact:	Causes mild eye irritation. Mild Eye Irritation: signs/symptoms can include redness, swelling, pain, and tearing.

Skin Contact:	May cause skin defatting with prolonged exposure. May be absorbed through the skin and product effects similar to those caused by inhalation and/or ingestion.
Ingestion:	May cause alcohol intolerance (Antabuse Effect). May cause headache, dizziness, nausea, vomiting, gastrointestinal irritation. May cause metallic taste. May cause weakness.
Inhalation:	Exposure to dust particles generated from this material may cause irritation of the respiratory tract. Inhalation may cause alcohol intolerance.
HMIS Hazard Ratings:	Not available.
HMIS limitation statement:	The HMIS hazard ratings numbers are meant to give a quick indication of the relative hazards associated with the product. All of the information contained in the SDS should be consulted to assist with the safe handling of this material.
Principal Hazardous Components:	OSHA PEL/8/Hr TWA: None Established. NIOSH REL/8/Hr TWA: 2 mg/m3. ACGIH TLV/8/Hr TWA: 2 mg/m3.

3. Composition / Information on Ingredients

Weight Percent / Typical	Component Identity	CAS Registry Number
100%	Tellurium Diethyl Dithiocarbamate	20941-65-5

4. First Aid Measures

Inhalation:	Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.
Eyes:	Wash with plenty of water. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.
Skin:	Wash with soap and plenty of water. Remove contaminated clothing. Get medical attention if irritation persists.
Ingestion:	If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

5. Fire-Fighting Measures

Suitable Extinguishing Media:	Water spray, sands, foam, carbon dioxide.

Unsuitable extinguishing media:	Water jet.
Special Fire Fighting Procedures:	Full protective clothing and approved self/contained breathing apparatus required for firefighting personnel. Fight fire from a safe distance and from a protected location. Use water spray to cool fire exposed surfaces. Decomposition in fire may produce toxic gases. Do not allow runoff to enter waterways.
Hazardous Combustion Products:	CO, nitrous gases and Sulfur oxides.
Unusual fire and explosion hazards:	A dust explosion should always be considered in case of organic reactions.

6. Accidental Release Measures

Steps to be taken in case material is spilled:	Collect onto absorbent, place in suitable container. Wear protective equipment specified. Avoid the generation of dust sweep vacuum, or shovel and place into closable container for disposal. Isolate area and remove sources of friction, impact, heat, low level electrical current, and RF energy. Do not spread spilled product with water.
Environmental Disposal Information:	Do not discharge into the drains or groundwater.
Waste Disposal:	Reclaim or dispose of in accordance with local, state, and federal regulations.

7. Handling and Storage:

Empty Containers:	If empty container retains product residues, all label precautions must be observed. Do not reuse containers.
Precautions to be taken in handling:	Avoiding formation and deposition of dust. Ensure efficient exhaust ventilation in the working area. Wash thoroughly with soap and water after handing. Take precautionary measures against static discharges, sparks, fires etc. Avoid contact with eyes, skin and clothing. Reclose containers of unused product. Keep containers tightly closed when not in use.
Storage:	Store closed containers in a cool, dry, well/ventilated area. Store away from strong oxidizing materials. Avoid exposure to direct sunlight.

8. Exposure Controls / Personal Protection

Exposure Controls:	Not available.
Respiratory Protection:	Use approved NIOSH respiratory protection if TLV exceeded. Appropriate respiratory protection shall be worn when applied

	engineering controls are not adequate to protect against inhalation exposure.
Ventilation:	Local exhaust ventilation as necessary to control any air contaminants to within the exposure limits. If air is to be recirculated, it must be filtered properly.
Hand Protection:	Use gloves as a standard industrial handling procedure. Appropriate chemical resistant gloves should be worn.
Eye Protection:	Wear safety glasses or goggles to protect against exposure.
Skin and Body Protection:	Light protection clothing. Launder contaminated clothing before reuse.
Other Precautions:	Avoid contact with eyes and skin, do not inhale dust. Wash thoroughly with soap and water immediately after work. Change contaminated clothes.
Decontamination Facilities:	Eye bath, washing facilities (sinks / showers).

9. Physical and Chemical Properties

Physical Form:	Solid
Appearance & Odor:	Light orange to yellow powder/ Slight
Specific Gravity:	1.48 g/g/cm3 25°C
Softening Point, R&B:	Not available.
Density:	1480 kg/m3
Bulk Density:	0.35/0.40g/g/cm3 25°C
Melting Point:	226°F / 108°C
Solubility in Water:	<0.1 mg/l 25°C Very slightly
Flash Point, TAG CC F:	248°F / 108°C
Percent Volatiles (by weight):	<0.5% by weight
Evaporation Rate (Water ~ I):	Not available.
Vapor Pressure (mm Hg):	Not available.
Vapor Density (Air ~ I):	Negligible @ 20°C
Boiling Point (^{o}F) Initial:	Not available.
Auto ignition Temperature, ^{o}C:	Not available.
Flammable Limits, %(V):	Not available.

10. Stability and Reactivity

Stability:	This product is stable under normal conditions.
Incompatibility (Materials to Avoid):	Strong oxidizers Acids.
Conditions to Avoid:	Avoid contact with heat, sparks, open flame, and static discharge. Avoid contact with strong oxidants such as liquid chlorine and concentrated oxygen.
Hazardous Polymerization:	Hazardous polymerization will not occur.
Hazardous Decomposition:	CO, nitrous gases and Sulfur oxides. A dust explosion should always be considered in case of organic reactions.

11. Toxicological Information

OSHA Permissible Exposure Limit:	None Established.
ACGIH Threshold Limit Value:	TLV/8/Hr 2 mg/m3.
NIOSH REL/8/Hr TWA:	2 mg/m3.
Acute Oral LD50 (mg/kg):	Practically Non/Toxic.
Acute Dermal LD50 (mg/kg):	Not available.
Acute Inhalation LC50 (mg/l):	Not available.
Aggravated Conditions:	Alcohol consumption problems. Pulmonary disorders.
Carcinogenicity Comment:	This product or one of its ingredients present 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.
Carcinogenic: Category 3:	May react with nitrosating agents during rubber vulcanization to form nitrosamines. Some nitrosamines are suspect human carcinogens.
Other:	Ingestion of the product may result in vomiting.
Primary Irritation Effect:	Slightly irritating.
Carcinogenicity:	Negative in standard tests using bacteria and yeast cells.

12. Ecological Information

Acute Fish Toxicity:	Not determined.
Acute Crustaceans Toxicity:	Not determined.
Acute Algae Toxicity:	Not determined.

Octanol/Water Coefficient:	Not determined.
Chemical Fate Information:	Not determined.
Other Information:	Similar compounds exhibit at least moderate toxicity to aquatic species.

13. Disposal Considerations

Disposal of Waste Method:	This product, if disposed as received, is a non/hazardous waste. Bury in a licensed landfill or burn in an approved incinerator according to federal, state, and local regulations. Federal, state and local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected. Avoid discharge into the environment.
Contaminated Packaging:	If empty container retains product residues, all label precautions must be observed. Transport with all closures in place. Return for reuse or dispose according to national or local regulations. Do not reuse container. Dispose of container according to national or local regulations.

14. Transport Information

D.O.T. Shipping Name:	Not regulated.
Air - ICAO (international Civil Aviation Organization):	Not regulated.
Sea - IMDG (International Maritime Dangerous Goods):	Not regulated.
TDG (Canada):	Not Regulated.

15. Regulatory Information

All components of this material are on the TSCA Inventory.

All components of this material are on the Canadian DSL.

16. Other Information

The above information has been compiled from what we believe to be credible sources. To our knowledge the information is accurate and reliable, however, it is not guaranteed. Any recommendations issued by HB Chemical personnel or literature is derived from experience and by no means should be taken as fact or construed as a recommendation to violate of any law, regulation or patent. It is the users responsibility to determine the suitability of any HB supplied material in their application. The individual conditions of each customer are well outside of our control and we cannot be held liable for its functionality and use. Please contact our office should you need specific information beyond what is supplied above. As with all Chemical usage safety precautions beyond the stated are highly recommended.