

  
**Material Safety Data Sheet**  
FLXP0023

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**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

**Product Name:** PERKACIT TETD

MSDS NO. FLXP0023

**Chemical Name:** Tetraethylthiuram Disulfide

**Synonyms:** Disulfide, bis(diethylthiocarbamoyl); Thioperoxydicarbonic diamide, tetraethyl-; Ethyl Thiuram; Antabuse  
**Use:** Accelerator.

**Manufactured By:** Flexsys America L.P. 260 Springside Drive Akron OH 44333 USA

**Emergency Telephone:** **CHEMTREC:** 1-800-424-9300 (TOLL FREE - USA and Territories)  
703-527-3887 (ELSEWHERE - Collect Calls Accepted)

**CANUTEC:** 613-996-6666 (Canada)

**SETIQ:** 91-800-00-214 (Mexico)

**Prepared By:** Flexsys America Product Safety Phone (330) 668-8281 FAX (330) 668-8281

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Components/CAS#	Percent
Tetraethylthiuram Disulfide 97-77-8	95-100
White Mineral Oil 8042-47-5	0-3.0

**3. HAZARDS IDENTIFICATION**

**Hazard Information**

**Emergency Overview:** WARNING! Dust may be irritating to eyes and upper respiratory tract. Fine dust clouds may form explosive mixtures with air. Highly toxic to fish and aquatic invertebrates. May cause sensitization by skin contact. May cause alcohol intolerance

**Eye Contact:** Causes mild eye irritation. Mild Eye Irritation: signs/symptoms can include redness, swelling, pain, and tearing.

**Skin Contact:** May cause an allergic skin reaction. May be absorbed through the skin and product effects similar to those caused by inhalation and/or ingestion.

**Inhalation:** Exposure to dust particles generated from this material may cause irritation of the respiratory tract. Inhalation may cause alcohol intolerance

**Ingestion:** May cause alcohol intolerance (Antabuse Effect) May cause headache, dizziness, nausea, vomiting, gastrointestinal irritation.

**4. FIRST AID MEASURES**

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MARKETED BY  
**HARWICK STANDARD**  
DISTRIBUTION CORPORATION  
80 S. Selberling Street • Akron, Ohio 44305

<b>In Eyes:</b>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.
<b>On Skin:</b>	In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention. Remove contaminated clothing and laundry before reuse. Get medical attention if irritation persists.
<b>Inhaled:</b>	Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.
<b>Swallowed:</b>	If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
<b>Notes To Physician:</b>	Treat symptomatically. Exposure by ingestion, inhalation or skin absorption may cause alcohol intolerance (Antabuse Effect)

## 5. FIRE FIGHTING MEASURES

<b>Flash Point (°F/C):</b>	Not Determined
<b>Flash Point Method:</b>	Not Determined
<b>Autoignition Temp. (°F/C):</b>	Not Determined
<b>Lower Explosion Limit in Air (LEL):</b>	Not determined.
<b>Upper Explosion Limit in Air (UEL):</b>	Not determined.

<b>Extinguishing Media:</b>	Water fog, carbon dioxide, foam, dry chemical
<b>Special Exposure Hazards:</b>	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.
<b>Special Protective Equipment:</b>	Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.
<b>Unusual Fire/Explosion Hazards:</b>	Toxic emissions may result if product is involved in a fire.

## 6. ACCIDENTAL RELEASE MEASURES

<b>Spill Procedures:</b>	Wear protective equipment specified. Avoid the generation of dust. Sweep, vacuum, or shovel and place into closable container for disposal.
<b>Procedure for Cleaning/Absorption:</b>	Isolate area and remove sources of friction, impact, heat, low level electrical current, and RF energy. Scoop up and remove. Do NOT spread spilled product with water.
<b>CERCLA Reportable Quantity (RQ):</b>	Not Applicable

## 7. HANDLING AND STORAGE

<b>Handling:</b>	Avoid contact with eyes, skin and clothing. Avoid generating or breathing dust. Wash thoroughly with soap and water after handling. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Reclose containers of unused product. Keep containers tightly closed when not in use. Do not reuse this container.
<b>Storage:</b>	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

<b>Eye Protection:</b>	Wear safety glasses or goggles to protect against exposure.
<b>Skin Protection:</b>	Normal work coveralls. Launder contaminated clothing before reuse.
<b>Gloves:</b>	Use gloves as a standard industrial handling procedure. Appropriate chemical resistant gloves should be worn.

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**Respiratory Protection:** Use in a well ventilated area. Use approved NIOSH respiratory protection if TLV exceeded..... Or over exposure is likely. Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure.

**Ventilation:** General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits during the use of this product.

**Airborne Exposure Limits:** OSHA PEL/8-Hr TWA: None Established. NIOSH REL/8-Hr TWA: 2 mg/m3. ACGIH TLV/8-Hr TWA: 2 mg/m3. White Mineral Oil OSHA PEL/8-Hr TWA = 5mg/m3 ACGIH TLV/8-Hr TWA = 5mg/m3

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** White to off-white powder Granules

**Odor:** SLIGHT AMINE

**pH:** N/A

**Specific Gravity:** 1.31 @20°C

**Density:** Unknown

**Bulk Density:** 610-650 kg/m3 @20°C

**Melting Point (°F/C):** 147°F / 64°C

**Boiling Point (°F/C):** 117°C

**Vapor Pressure:** Negligible @ 20°C

**Vapor Density (Air=1):** Not Determined

**% Volatile by Volume:** <0.5% by weight

**Solubility in Water:** 0.02 g/100ml

**Other Solubility:** Soluble in Benzene Carbon Disulfide Organic liquids, including fats and oils Ethanol

**Viscosity:** Not determined.

**Other Data:** Not determined.

**Molecular Weight:** 296.54

**Molecular Formula:** C10-H20-N2-S4

## 10. STABILITY AND REACTIVITY

**Chemical Stability:** Stable when stored at room temperature in closed, original container. Stable under normal conditions of handling, use and transportation.

**Hazardous Polymerization:** WILL NOT OCCUR

**Conditions to Avoid:** Not determined.

**Materials to Avoid:** Avoid contact with acidic, basic or oxidizing agents.

**Hazardous Decomposition Products:** Carbon monoxide Oxides of nitrogen Oxides of sulfur

**Additional Guidelines:** Not Applicable

## 11. TOXICOLOGICAL INFORMATION

**Target Organs**

**Acute Oral LD50 (mg/kg):** 4573 mg/kg

**Acute Dermal LD50 (mg/kg):** 2050 mg/kg

**Acute Inhalation LC50 (mg/l):** Not determined

**Principle Routes of Exposure:** Dermal - skin. Inhalation.

**Ingestion:** May cause alcohol intolerance (Antabuse Effect) May cause headache, dizziness, nausea, vomiting, gastrointestinal irritation.

**Skin Contact:** May cause an allergic skin reaction. May be absorbed through the skin and product effects similar to those caused by inhalation and/or ingestion.

**Inhalation:** Exposure to dust particles generated from this material may cause irritation of the respiratory tract. Inhalation may cause alcohol intolerance

**Eye Contact:** Causes mild eye irritation . Mild Eye Irritation: signs/symptoms can include

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<b>Aggravated Conditions:</b>	redness, swelling, pain, and tearing.
<b>Carcinogenicity Comment:</b>	Alcohol consumption problems. 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 NOTE: May react with nitrosating agents during rubber vulcanization to form nitrosamines. Some nitrosamines are suspect human carcinogens.
<b>Other:</b>	Ingestion of the product may result in vomiting.
<b>Primary Irritation Effect:</b>	Practically non-irritating
<b>Carcinogenicity:</b>	Negative in standard tests using bacteria and yeast cells
<b>Genotoxicity:</b>	None
<b>Reproductive/Developmental Toxicity:</b>	No evidence of teratogenicity in animal studies using rats, mice and hamsters

## 12. ECOLOGICAL INFORMATION

<b>Acute Fish Toxicity:</b>	96Hr LC50 Bluegill Sunfish: 0.07 mg/l 96Hr LC50 Guppy: 0.32 mg/l
<b>Acute Crustaceans Toxicity:</b>	48Hr LC50 Daphnia Magna: 0.12 mg/l
<b>Acute Algae Toxicity:</b>	96Hr EC50 Algae: 1.80 mg/l
<b>Octanol/Water Coefficient:</b>	3.88 log P
<b>Chemical Fate Information:</b>	Not determined
<b>Other Information:</b>	Not Applicable

## 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.

**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

<b>DOT:DOT Status:</b>	Not Regulated
<b>DOT Shipping Name:</b>	NONE
<b>DOT Reportable Quantity (lbs):</b>	None
<b>ICAO/IATA:Status:</b>	NONE
<b>Proper Shipping Name:</b>	None
<b>UN/NA Number:</b>	NONE
<b>IMDG:Status:</b>	Not Regulated
<b>Proper Shipping Name:</b>	None
<b>TDG (Canada):Status:</b>	Not determined.
<b>Proper Shipping Name:</b>	None

## 15. REGULATORY INFORMATION

**Worldwide Inventory Status**

<b>TSCA (USA):</b>	Listed
<b>Canadian DSL:</b>	Listed

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Canadian NDSL: N/A  
EINECS/ELINCS (Europe): Listed  
Japanese Inventory (ENCS): Listed  
Korean Chemical Inventory (ECL): Listed  
Australian Chemical Inventories (AICS): Listed  
New Zealand (NZ): Listed  
Phillipines (PICCS) Inventory: Listed  
China (CLECS): Listed

**US Regulatory Rules**  
SARA Section 302: Not Applicable  
SARA 311/312 Hazard Categories: Immediate Delayed  
SARA 313 Chemical: N/A  
RCRA Status: Not a RCRA waste.

**Other Regulations:**  
California Proposition 65: NONE  
New Jersey Right-to-Know List: Listed  
Pennsylvania Right to Know List: Listed  
Florida Right to Know: N/A  
Minnesota Right to Know: N/A  
MA Right to Know Law: Listed

**FDA Status 21 CFR:** Regulated for Use under the following sections of 21 CFR: 177.2600 Rubber Articles Intended for Repeated Use in Food Contact. 175.105 Components of Adhesives.

**Canadian Regulations**  
WHMIS Hazard Class: D2B TOXIC MATERIALS / Materials Causing Other Toxic Effects  
NPRI: N/A

## 16. OTHER INFORMATION

**Hazard Rating Systems:**  
HMIS Classification: HEALTH 2, FLAMMABILITY 1, REACTIVITY 0  
NFPA Rating: HEALTH 2, FLAMMABILITY 1, REACTIVITY 0

**The following has been revised since the last issue of this MSDS:**  
Nothing has been revised.

**Additional Information:** Not Applicable

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\*\*\*END OF MSDS\*\*\*

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