

Date of Printing:

12/08/2000

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: Emergency Telephone:

Flexsys America L.P. 260 Springside Drive Akron OH 44333 USA CHEMTREC: 1-800-424-9300 (TOLL FREE - USA and Territories)

703-527-3887 (ELSEWHERE - Collect Calls Accepted)

CANUTEC: SETIQ:

613-996-6666 (Canada) 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 95-100
97-77-8
White Mineral Oil 0-3.0

Hazard Information

8042-47-5

Emergency Overview: WARNING! Dust may be irritating to eyes and upper respiratory tract. Fine dust clouds may form

HAZARDS IDENTIFICATION

explosive mixtures with air. Highly toxic to fish and aquatic invertbrates. 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 similiar

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



MARKETED BY
HARWICK STANDARD
DISTRIBUTION CORPORATION
60 S. Seiberling Street • Akron Obio 44305

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get

medical attention if irritation persists.

On Skin: 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 launder before reuse. Get medical attention if

irritation persists.

Inhaled: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get

immediate medical attention.

Swallowed: If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician.

Never give anything by mouth to an unconscious person.

Notes To Physician: Treat symptomatically. Exposure by ingestion, inhalation or skin absorbtion may cause alcohol

intolerance (Antabuse Effect)

5. FIRE FIGHTING MEASURES

Flash Point (°F/C):

Flash Point Method:

Autoignition Temp. (°F/C):

Lower Explosion Limit in Air (LEL):

Not Determined

Not Determined

Not determined.

Upper Explosion Limit in Air (UEL): Not determined.

Extinguishing Media: Water fog, carbon dioxide, foam, dry chemical

Special Exposure Hazards: 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.

Special Protective Equipment: Full protective clothing and approved self-contained breathing apparatus required for

fire fighting personnel.

Unusual Fire/Explosion Hazards: Toxic emissions may result if product is involved in a fire.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Wear protective equipment specified. Avoid the generation of dust. Sweep,

vacuum, or shovel and place into closable container for disposal.

Procedure for Cleaning/Absorption: 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.

CERCLA Reportable Quantity (RQ): Not Applicable

7. HANDLING AND STORAGE

Handling: 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.

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

Eye Protection:

Wear safety glasses or goggles to protect against exposure.

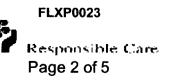
Skin Protection:

Normal work coveralls. Launder contaminated clothing before reuse.

Gloves:

Use gloves as a standard industrial handling procedure. Appropriate chemical resistant

gloves should be worn.



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. General; local exhaust ventilation as necessary to control any air contaminants to within

Ventilation:General; local exhaust ventilation as necessary to contheir 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.

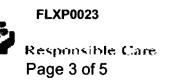
Skin Contact: May cause an allergic skin reaction. May be absorbed through the skin and

product effects similiar 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



redness, swelling, pain, and tearing.

Aggravated Conditions: Alcohol consumption problems. **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 NOTE: May react with nitrosating agents during rubber vulcanization to

form nitrosamines. Some nitrosamines are suspect human carcinogens.

Ingestion of the product may result in vomiting.

Other: **Primary Irritation Effect:**

Carcinogenicity:

Practically non-irritating

Negative in standard tests using bacteria and yeast cells

Genotoxicity:

None Reproductive/Developmental

Toxicity:

No evidence of teratogenicity in animal studies using rats, mice and hamsters

12. **ECOLOGICAL INFORMATION**

Acute Fish Toxicity:

96Hr LC50 Bluegill Sunfish: 0.07 mg/l 96Hr LC50 Guppy: 0.32 mg/l

Acute Crustaceans Toxicity:

48Hr LC50 Daphnia Magna: 0.12 mg/l

Acute Algae Toxicity: Octanol/Water Coefficient: 96Hr EC50 Algae: 1.80 mg/l

Chemical Fate Information: Other Information:

3.88 log P Not determined 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

DOT:DOT Status:

Not Regulated

DOT Shipping Name:

NONE

None

DOT Reportable Quantity (lbs):

NONE

ICAO/IATA:Status: **Proper Shipping Name:**

None

UN/NA Number:

NONE

IMDG:Status:

Not Regulated

Proper Shipping Name:

None

TDG (Canada):Status:

Not determined.

Proper Shipping Name:

None

REGULATORY INFORMATION 15.

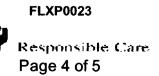
Worldwide Inventory Status

TSCA (USA):

Listed

Canadian DSL:

Listed



Canadian NDSL:

EINECS/ELINCS (Europe):

Japanese Inventory (ENCS):

Korean Chemical Inventory (ECL):

Australian Chemical Inventories

N/A

Listed

Listed

Listed

(AICS):

New Zealand (NZ):

Phillipines (PICCS) Inventory:

China (CLECS):

Listed

Listed

Listed

US Regulatory Rules SARA Section 302:

SARA 311/312 Hazard Catagories:

Not Applicable 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:
Florida Right to Know:
Minnesota Right to Know:
MA Right to Know Law:
N/A
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:

NPRI:

D2B TOXIC MATERIALS / Materials Causing Other Toxic Effects

N/A

16. OTHER INFORMATION

Hazard Rating Systems:

HMIS Classification:

NFPA Rating:

HEALTH 2, FLAMMABILITY 1, REACTIVITY 0
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

Important Note:

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END OF MSDS

