

Material Safety Data Sheet

Last Revision: 05/03/2007 Printing Date: 05/03/2007

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
Product Name:	PERKACIT® DPTT
MSDS NO.	FLXP0014
Chemical Name: Synonyms: Use:	Dipentamethylenethiuram Tetrasulfide Bis(pentamethylene)thiuram tetrasulfide; 1,1´-(Tetrathiodicarbonothioyl)-bis- piperadine; Piperadine, 1,1´-(tertathiodicarbonothioyl)-bis-; Accelerator.
Manufactured By:	Flexsys America L.P. 260 Springside Drive Akron OH 44333-2433 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) 668-8345 E:mail sharen.b.breyer@flexsys.com
	2. HAZARDS IDENTIFICATION
Emergency Overview:	WARNING! Combustible dust - explosion potential. Causes eye irritation. May irritate the skin. Causes respiratory irritation. 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 be absorbed through the skin and product effects similiar to those caused by inhalation and/or ingestion. May cause skin defatting with prolonged exposure.
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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Dipentamethylenethiuram Tetrasulfide	120-54-7	96 - 99
White Mineral Oil [-pdr-d form ONLY]	8042-47-5	1 - 2

4. FIRST AID MEASURES

In Eyes:

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:

and get medical attention if irritation persists. 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.

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HARWICK STANDARD

	4. FIRST AID MEASURES
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 (LEL):	Not Determined Not Determined Not Determined Not Determined
Upper Explosion Limit (UEL):	Not Determined
Extinguishing Media: Special Exposure Hazards:	Use water fog, carbon dioxide, foam or dry chemical. Fight fire from a safe distance and from a protected location. Use water spray to coo 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: Procedure for	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,
Cleaning/Absorption:	and RF energy. Remove ignition sources and work with non-sparking tools. Scoop up and remove solids. 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. Store away from strong acids. Avoid exposure to direct sunlight. Do not double stack. Material compaction may occur at storage temperatures > 35°C and double stacking.
8. EXPOSURE CONTROLS / PERSONAL PROTECTION	
Eye Protection: Skin Protection: Gloves:	Wear safety glasses or goggles to protect against exposure. Normal work coveralls. Launder contaminated clothing before reuse. Use gloves as a standard industrial handling procedure. All cleanable impervious glove types are acceptable.

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8. E	XPOSURE CONTROLS / PERSONAL PROTECTION
Respiratory Protection:	Use in a well ventilated area. Use approved NIOSH respiratory protection if TLV exceeded or if overexposure 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. If air is to be recirculated, in must be filtered properly.
Airborne Exposure Limits:	Nuisance Dust. OSHA PEL/8Hr-TWA = 15 mg/m^3 (Total Dust). OSHA PEL/8-Hr TWA = 05 mg/m^3 (Respirable Dust). ACGIH TLV/8-Hr TWA = 10 mg/m^3 . White Mineral Oil OSHA PEL/8-Hr TWA = 5mg/m^3 ACGIH TLV/8-Hr TWA = 5mg/m^3 .

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Odor: pH: Specific Gravity: Density: Bulk Density: Melting Point (°F/C): Boiling Point (°F/C): Vapor Pressure: Vapor Density (Air=1): % Volatile by Volume: Solubility in Water: Other Solubility: Viscosity: Other Data: Molecular Weight: Molecular Formula:	White to off-white powder SLIGHT AROMATIC Not Applicable 1.5 @20°C 1.5 220-260 kg/m ³ for DPTT-pdr 270-310 kg/m ³ for DPTT-pdr-d 239°F / 115°C (Initial, minimum), 135°C (final) Not Determined Negligible Not Determined <0.3% (Heat Loss) INSOLUBLE Soluble in: Benzene Carbon Disulfide Organic liquids, including fats and oils Chloroform Not Applicable Ash content = 0.5% max. Sulfur Content: 8% max. 384.7 C12-H2-0-N2-S6
Chemical Stability: Hazardous Polymerization: Conditions to Avoid: Materials to Avoid: Hazardous Decomposition Products: Additional Guidelines:	Stable when stored at room temperature in closed, original container. Stable under normal conditions of handling, use and transportation. WILL NOT OCCUR Keep away from heat, sparks and flame. Avoid contact with strong oxidants such as liquid chlorine and concentrated oxygen. Storage temperatures >35°C and double stacking will cause material compaction. Contact with acids. Contact with oxidizing agents. Carbon monoxide. Oxides of nitrogen. Oxides of sulfur. Not Applicable
	11. TOXICOLOGICAL INFORMATION
Acute Oral LD50 (mg/kg): Acute Dermal LD50 (mg/kg): Acute Inhalation LC50 (mg/l):	>5000 mg/kg (Rat) Not Determined Not Determined

Target Organs / Principle Routes of Exposure: Dermal - skin. Inhalation.

Ingestion:

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

	11. TOXICOLOGICAL INFORMATION
Skin Contact:	May be absorbed through the skin and product effects similiar to those caused by inhalation and/or ingestion. May cause skin defatting with prolonged exposure.
Inhalation:	Exposure to dust particles generated from this material may cause irritation of the
Eye Contact:	respiratory tract. Inhalation may cause alcohol intolerance Causes mild eye irritation. Mild Eye Irritation: signs/symptoms can include redness,
Aggravated Conditions:	swelling, pain and tearing. Alcohol consumption problems. Pulmonary disorders.
Carcinogenicity Comment:	This product, or one of its ingredients present at 0.1% or more, is NOT listed as a
	carcinogen or suspected carcinogen by NTP, IARC or OSHA. NOTE: May react with nitrosating agents during rubber vulcanization to form nitrosamines. Some
Other Information:	nitrosamines are suspect human carcinogens. None known.
Primary Irritation Effect:	Slightly irritating to skin and eyes.
Carcinogenicity: Genotoxicity:	Negative in standard tests using bacteria and/or yeast cells. Negative for genetic activity - in vitro tests.
Reproductive/Developmental Toxicity:	No evidence of teratogenicity in animal studies using rats, mice and/or hamsters.
Toxicity:	
	12. ECOLOGICAL INFORMATION
Acute Fish Toxicity:	48Hr LC50 Orizias Latipes = 500 mg/l.
Acute Crustaceans Toxicity: Acute Algae Toxicity:	Not determined. Similar compounds show at least moderate toxicity to daphnids. Not determined. Similar compounds are at least moderately toxic to algae.
Octanol/Water Coefficient: Chemical Fate Information:	2.8 log P Not determined. Similar compounds show at least moderate biodegradability.
Other Information:	Tests indicate this material will not bioaccumulate or persist in the environment.
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:	Not Regulated
DOT Reportable Quantity (lbs): ICAO/IATA:	None See DOT
IMDG: Marine Pollutant:	See DOT
TDG (Canada):	No See DOT
Remarks:	None
	15. REGULATORY INFORMATION
Worldwide Inventory Status	
USA (TSCA):	Both components are Listed.
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15. REGULATORY INFORMATION

Canada (DSL): Canada (NDSL): European Union (EINECS/ELINCS): Japan (ENCS): Korea (ECL): Australia (AICS): New Zealand (NZ): Phillipines (PICCS): China (CLECS):

US Regulatory Rules

SARA Section 302: SARA 311/312 Hazard Catagories: SARA 313 Chemical: RCRA Status:

Other Regulations:

California Proposition 65: New Jersey Right-to-Know List: Pennsylvania Right to Know List: Florida Right to Know: Minnesota Right to Know: Massachusetts Right to Know Law:

FDA Status 21 CFR:

Canadian Regulations

WHMIS Hazard Class: NPRI: Both components are Listed. Not Applicable. Listed on the DSL. Both components are Listed. Both components are Listed.

Not Applicable / None Immediate Not Applicable / None Not a RCRA waste.

NONE Not Applicable. Not Applicable. Not Applicable. Not Applicable Not Applicable.

Regulated for Use under the following sections of 21 CFR: 175.300 Resinous and Polymeric Coatings. 177.1210 Closures with Sealing Gaskets for Food Containers. 175.105 Components of Adhesives.

NON-CONTROLLED Not Listed. [Canada]

16. OTHER INFORMATION

Hazard Rating Systems:

HMIS Classification:	HEALTH 1, FLAMMABILITY 1, REACTIVITY 0
NFPA Rating:	HEALTH 1, FLAMMABILITY 1, REACTIVITY 0

The following has been revised New MSDS format. since the last issue of this MSDS:

Additional Information: NONE

Important Note: This information is furnished without warranty, expressed or implied, as to accuracy or completeness. The information is obtained from various sources including the manufacturer and other third party sources. The information may not be valid under all conditions nor if this material is used in combination with other materials or in any process. Final determination of suitability of any material is the sole responsibility of the user.

END OF MSDS

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