

MATERIAL SAFETY DATA SHEET

PRODUCT NO 7501-14
 ISSUE DATE 5/14/84
 ISSUED BY JCR
 SUPERSEDES ISSUE OF 8/79

Gustafson

CHEMTREC CHEMICAL TRANSPORTATION EMERGENCY TELEPHONE NO 800-424-9300 DISTRICT OF COLUMBIA 202-483-7616		GUSTAFSON EMERGENCY NO 214-931-8899	
PRODUCT NAME Gustafson 42-S Thiram Fungicide & Repellent		CAS NUMBER	
CHEMICAL FAMILY Organo sulfur	CHEMICAL NAME & SYNONYMS BIS (dimethylthiocarbamyl) disulfide		
CHEMICAL FORMULA C6H12N2S4	TRADE NAME & SYNONYMS Thiram, TMTD		

INGREDIENTS

MIXTURES OF OTHER LIQUIDS, SOLIDS OR GASES	%	CURR. TLV
Thiram	42.0	5 mg/m3
Inert ingredients	58.0	

PHYSICAL DATA

APPEARANCE (SOLID, LIQUID, GAS) Liquid	pH (AS IS) 7.5	FREEZING POINT NE	SPECIFIC GRAVITY 1.142
VAPOR DENSITY (AIR = 1) NE	COLOR White	BULK DENSITY NA	BOILING POINT NE
VAPOR PRESSURE Negligible	SOLUBILITY IN WATER Dispersible	ODOR Faint	% VOLATILE BY VOLUME NE

FIRE & EXPLOSION DATA

FLASH POINT °F (METHOD USED) > 200°F.	FLAMMABLE LIMIT LeI UeI	EXTINGUISHING MEDIA Not flammable
SPECIAL FIRE FIGHTING PROCEDURES Wear full protective clothing and self-contained breathing apparatus if involved in fire.		
UNUSUAL FIRE OR EXPLOSION HAZARDS Decomposition produces flammable by-products.		

TOXICITY DATA

LD50, ORAL (INGESTION) 865 mg/kg (Rat)	LD50, DERMAL (SKIN CONTACT) NE	INHALATION NE
FISH LC50 (LETHAL CONCENTRATION)	TLV (UNITS) (THRESHOLD LIMIT VALUE) 5 mg/m3	SKIN IRRITATION May cause allergic skin reaction.
EFFECTS TO EYE May cause irritation	EFFECTS TO LUNG Moderately severe irritant	OTHER In the presence of alcohol this compound produces violent nausea, vomiting and collapse

EMERGENCY FIRST AID PROCEDURES

SKIN Wash affected area with soap and water. If irritation persists, see a physician.
EYES Flush eyes with plenty of water for 15 minutes. Get medical attention if irritation persists.
INGESTION Drink plenty of water and induce vomiting. Do not give alcohol. Get medical attention.
INHALATION Remove to fresh air and administer CPR if not breathing. See a physician if irritation develops.

NORMAL HANDLING PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
 Do not get into eyes, on skin or on clothing. Do not take internally. Avoid breathing fumes or mist. Upon contact, wash exposed areas with soap and warm water. Store in a cool, dry area away from food or feed in an area designated for pesticides.

CORROSIVE ACTION ON MATERIALS (Metals, Plastic, Rubber, Etc.) NE

PROTECTIVE EQUIPMENT	VENTILATION REQUIREMENTS
Eyes: Goggles or face shield Gloves: Impervious Other: NIOSH/MHSA approved respirator, coveralls, impervious boots.	Local exhaust or general ventilation required when dictated by local conditions.

SPILL OR LEAKAGE PROCEDURES (Control Procedures)

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
 Wear appropriate safety equipment. Absorb on suitable dry absorbant and shovel or sweep up and place into approved DOT container and seal. Scrub contaminated area with detergent and handle as above. Repeat as necessary. Flush area with water while observing proper environmental considerations. In case of large spills, notify emergency telephone number on front of this sheet.

WASTE DISPOSAL METHOD
 Pesticide wastes are toxic. Improper disposal of excess pesticides, wastes or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA regional office for guidance.

REACTIVITY DATA

STABLE <input checked="" type="checkbox"/> UNSTABLE <input type="checkbox"/> AT _____ °C _____ °F	HAZARDOUS POLYMERIZATION	MAY OCCUR
CONDITIONS TO AVOID Excess heat.		WILL NOT OCCUR <input checked="" type="checkbox"/>
INCOMPATIBILITY (Material To Avoid) Strong acids and oxidizing agents.	HAZARDOUS DECOMPOSITION PRODUCTS Decomposition produces flammable by-products. Fire may produce oxides of nitrogen, sulfur and carbon disulfide.	

SHIPPING DATA

DOT SHIPPING NAME Not regulated by ground	TECHNICAL SHIPPING NAME
DOT HAZARD CLASSIFICATION Primary:	Secondary:
DOT LABELS REQUIRED	FREIGHT CLASSIFICATION Insecticide or Fungicide, Agricultural, N.O.I., Liquid

REASON FOR ISSUE
 Revise product MSDS

NE - NOT ESTABLISHED NA - NOT APPLICABLE

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Gustafson Inc. The data on this sheet relates only to the specific material designated herein. Gustafson Inc. assumes no legal responsibility for use or reliance upon these data.

Gustafson, Inc.
 17400 Dallas North Parkway, Dallas, Texas 75252, (214) 931-8899