

MATERIAL SAFETY DATA SHEET
TRACE CHEMICALS LLC

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME.....:VITAVAX T-L
PRODUCT CODE.....:7501-114-42056
CHEMICAL FAMILY.....:Mixture
CHEMICAL NAME.....:Carboxin-Thiram
FORMULA.....:Mixture

MANUFACTURER: TRACE CHEMICALS LLC
2320 LAKECREST DRIVE.
PEKIN, IL 61554
(309)347-2184

EMERGENCY TELEPHONE NO:
CHEMTREC: (800)424-9300 (Toll free – U.S.)
(703)527-3887 (Domestic and International)
TRACE : (309)347-2184

2. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS

INGREDIENT NAME				
<u>/CAS NUMBER</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OTHER</u>
Thiram(137-26-8)	10.0	5 mg/m ³	1 mg/m ³	N/E
Ethylene glycol(107-21-1)	10-20	50 ppm	50 ppm	N/E
Carboxin(5234-68-4)	10.0	N/E	N/E	N/E

3. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

This product may be harmful, if significant quantities are swallowed or absorbed through the skin.

EFFECTS OF ACUTE OVEREXPOSURE: May cause dermal sensitization. Inhalation May cause respiratory and mucous membrane irritation. Consumption of alcohol before or after exposure to Thiram produces violent nausea, vomiting and collapse. If swallowed, nausea, vomiting and breathing difficulty may occur.

EFFECTS OF CHRONIC OVEREXPOSURE: Thiram has shown mutagenic activity in Ames test, but non-mutagenic in mammalian cell studies. No carcinogenic or teratogenic Effects shown. Ethylene Glycol may cause CNS depression and kidney damage. Ethylene Glycol has been shown to produce dose-related teratogenic effects in rats and mice. There is however, no information suggesting that Ethylene Glycol has caused birth defects in humans. Carboxin has shown possible kidney effects in animal studies.

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4. FIRST AID MEASURES

IF ON SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a Poison Control Center or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, after the first 5 minutes, then continue rinsing eye. Call a Poison Control Center or doctor for treatment advice.

IF SWALLOWED: Call a Poison Control Center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a Poison Control Center or doctor. Do not give anything by mouth to an unconscious person.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance. then give artificial respiration, preferably mouth-to-mouth if possible. Call a Poison Control Center or doctor for further treatment advice.

- NOTE OF PHYSICIAN(ANTIDOTE): Thiram: No specific antidote is available. Treat symptomatically. Avoid alcohol. In the presence of consumed alcohol, Thiram responds similarly to disulfiram.

5. FIRE FIGHTING MEASURES

FLASH POINT.....:200°F

EXTINGUISHING MEDIA.....:Foam, CO2, Water

SPECIAL FIRE FIGHTING PROCEDURES.....:Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Contain water run-off.

6. ACCIDENTAL RELEASE MEASURES:

SPILL OR LEAK PROCEDURES.....:Wear protective equipment. Absorb on dry absorbant-shovel or sweep into DOT container. Scrub area with detergent. Prevent water from entering drains or waterways.

7. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS.....:Do not store above 120°F or below -10°F. Keep container tightly closed. Keep out of reach of children. Corrosive action on metals, plastics, rubber, etc. – N/E

EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION REQUIREMENTS.....:Goggles or safety glasses

SKIN PROTECTION REQUIREMENTS.....:Rubber or plastic gloves, long sleeves, pants or coveralls.

RESPIRATORY/VENTILATION REQUIREMENTS.....:Provide local exhaust if used in a confined area to maintain exposure below PEL. If above PEL use a dust/mist filtering respirator(MSHA/NIOSH approval number TC-21C) or a NIOSH approved respirator with any N, R, P, or HE filters

EXPOSURE LIMITS.....:Not established for product as whole. Refer to Section 2.

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9. PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL FORM.....:Liquid
COLOR.....:Red
ORDOR.....:Alcoholic
BOILING POINT.....:N/E
MELT POINT/FREEZE POINT.....:-10°F
pH.....:7.0-8.5
SOLUBILITY IN WATER.....:Miscible
SPECIFIC GRAVITY.....:1.09 (9.1 Lbs/gallon)
BULK DENSITY.....:N/A
% VOLATILE BY WEIGHT.....:N/E
VAPOR PRESSURE.....:Neg.
VAPOR DENSITY.....:N/E

10. REACTIVITY

CONDITIONS TO AVOID.....:Excessive heat
STABILITY.....:Stable
HAZARDOUS POLYMERIZATION.....:Will not occur
INCOMPATIBILITIES.....:Strong acids, strong oxidizers, copper
DECOMPOSITION PRODUCTS.....:Oxides of nitrogen and sulfur

11. TOXICOLOGICAL INFORMATION:

ROUTE(S) OF ENTRY.....:Inhalation, dermal, eye contact, ingestion
ORAL LD50:>10,000 mg/kg
INHALATION LC50:N/E
DERMAL LD50:>21,500 mg/kg
EFFECTS TO EYES: Slight Irritant
EFFECTS TO SKIN: Slight Irritant

12. ECOLOGICAL INFORMATION:

No information available.

13. DISPOSAL CONSIDERATIONS:

WASTE DISPOSAL METHOD.....:Pesticide wastes are toxic.
Improper disposal is a violation of Federal Law. Contact your State Environmental Control Agency for guidance.

14. TRANSPORTATION INFORMATION

D.O.T. HAZARDOUS MATERIALS REGULATED
BY 49CFR.....: Not regulated.
(Vitavax T-L)
PRODUCT RQ(LBS.).....:100 Lbs.(Thiram=10Lbs.)
D.O.T. LABEL.....:None
D.O.T. PLACARD.....:None
FREIGHT CLASS PACKAGE.....:Insecticide or Fungicide,
Agricultural, N.O.I., Liquid
PRODUCT LABEL.....:Vitavax T-L
ERG GUIDE NUMBER.....: 171

15. REGULATORY INFORMATION:

CERCLA REPORTABLE QUANTITY.....:11 gallons(Thiram=10Lbs.)
SARA TITLE III:
SECTION 311/312
HAZARD CATEGORIES.....:Immediate(acute)
SECTION 313
TOXIC CHEMICALS.....:Thiram(137-26-8) 10%
Carboxin(5234-68-4) 10%
Ethylene Glycol(107-21-1) 10-25%
RCRA STATUS.....:Thiram U244

STATE REGULATORY INFORMATION:

COMPONENT NAME	CONCENTRATION	STATE CODE
Thiram(137-26-8)	10%	FL,MA,PA,MI,MN,NJ,WA
Ethylene Glycol (107-21-1)	10-25%	FL,MA,PA,MN,NJ,WA

16. OTHER INFORMATION

REASON FOR ISSUE.....:Review changes
PREPARED BY.....:J. Hartman
APPROVED BY.....:K. Grossweiler
TITLE.....:General Manager
APPROVAL DATE.....:6-1-02
SUPERCEDES DATE.....:11-10-99
MSDS NUMBER.....:7501-114-42056

HAZARD RATING<HMIS>

HEALTH 1 - FLAMMABILITY 1 - REACTIVITY 1 - PERSON.PROTECT J

N/E = NOT ESTABLISHED

N/A = NOT APPLICABLE