

MATERIAL SAFETY DATA SHEET



CHEM-TOX MAL 50-OS

SECTION 1 • IDENTIFICATION

IDENTITY:

CHEM-TOX MAL 50-OS

EPA Registration No. 45385-66 • Product Code: OC-530

ACTIVE INGREDIENT CHEMICAL NAME: MALATHION

CHEMICAL FAMILY: Organic Phosphates

Manufacturer's Name:

CTX/Cenol, Inc.

Address: 138 West Drive

Lodi, Ohio 44254

Prepared by: Bart Baker Date Prepared: July 16, 2008

HMIS Rating: Health: 2
Flammability: 2
Reactivity: 0
Protection: Safety Glasses &
Rubber Gloves

Emergency Telephone Number:

CHEMTREC at 1-800-424-9300 or

National Pesticide Telecommunications Network at 1-800-858-7378 or

Telephone Number for Information:

9 AM to 5 PM EST - 888-281-7025

SECTION 2 HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	CAS NUMBER	PEL	STEL	<-OSHA LIMITS ->		OPTIONAL %
				CEILING	ACGIH TLV	
Malathion	121-75-5	10mg/m3	0.6mg/m3	N/A	10mg/m3	52
Aromatic Solvent	64742-95-8	50	N/A	N/A	400	N/A

* REPORTABLE UNDER SARA SECT. 313

SECTION 3 • PHYSICAL / CHEMICAL DATA

BOILING POINT: (F): >156° C @ 0.7 mm Hg

SOLUBILITY IN H₂O: 1.0324APPEARANCE / ODOR: Clear brown liquid.
Mercaptan odor.

SPECIFIC GRAVITY: (Water = 1): 1.055

VAPOR PRESSURE: (mm hg): 0.00004 mmHg @ 30° C

SECTION 4 • FIRE & EXPLOSION HAZARD DATA

FLASH POINT: >141° F

FLAMMABLE LIMITS: LEL: N/A UEL: N/A

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical or CO₂.

SPECIAL FIRE FIGHTING PROCEDURES: Warning. Flammable. Clear fire area of unprotected personnel. Cool fire exposed containers. Use self-contained breathing apparatus for confined areas.

UNUSUAL FIRE & EXPLOSION HAZARDS: Cool containers exposed to intense heat with water to prevent container rupture from vapor pressure build-up.

SECTION 5 • REACTIVITY DATA

CHEMICAL STABILITY: Stable. Avoid heat, sparks and flame.

CONDITIONS TO AVOID: Avoid sparks, heat, flame, strong oxidizing agents, alkali metal hydroxides.

INCOMPATIBLE MATERIALS: Avoid strong oxidizing materials.

DECOMPOSITION PRODUCTS: Carbon monoxide and unidentified organics may be formed during combustion.

HAZARDOUS POLYMERIZATION: Will not occur

SECTION 6 • HEALTH HAZARD DATA

ROUTES OF ENTRY:	INHALATION?	SKIN?	INGESTION?
	YES	YES	YES

SECTION 6 • HEALTH HAZARD DATA (CONT.)

HEALTH HAZARDS (ACUTE and CHRONIC): Liquid is irritating to eyes and skin. Inhalation of high concentration may cause CNS depression. Cholinesterase inhibitor. Liquid is toxic and will be harmful if swallowed.

CARCINOGENICITY: NTP? IARC MONOGRAPH? OSHA REGULATED?
NO NO NO

SIGNS & SYMPTOMS OF EXPOSURE: Irritation as noted above. Early CNS depression may be evidenced by headache, dizziness and nausea. Blurred vision and pin-point pupils may occur. In extreme case, death may occur.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye, skin and respiratory disorders.

FIRST AID PROCEDURES:

EYES: Flush with plenty of water.

SKIN: Flush with water and remove contaminated clothing and shoes.

INHALATION: Fresh air and oxygen if required.

INGESTION: Do NOT induce vomiting. Get medical attention.

SECTION 7 • PRECAUTIONS FOR SAFE HANDLING

IN CASE MATERIAL IS RELEASED OR SPILLED: Keep liquid and vapor away from heat, sparks and flame. Handling equipment must be grounded to prevent sparking. Shut off source of leak if safe to do so. Dike and contain. Clean up with absorbents.

WASTE DISPOSAL METHOD: Waste material is considered hazardous under EPA-RCRA (40 CFR 261.33). Follow latest EPA or state regulations regarding proper disposal.

HANDLING AND STORAGE: Keep liquid and vapor away from heat, sparks and flame. Empty containers can contain explosive vapors. Avoid static electricity by grounding equipment.

OTHER PRECAUTIONS: Bond and ground transfer equipment.

SECTION 8 • CONTROL MEASURES

RESPIRATORY PROTECTION: Air purifying respirator for organic vapors or air-supplying respirator.

VENTILATION: LOCAL EXHAUST: Use explosion-proof ventilation as required:

MECHANICAL EXHAUST: Use explosion-proof ventilation as required.

PROTECTIVE GLOVES: Chemical resistant.

EYE PROTECTION: Safety glasses or goggles.

OTHER PROTECTIVE EQUIPMENT: Use explosion-proof ventilation as required to control vapor concentration.

WORK / HYGIENIC PRACTICES: Explosion-proof ventilation. Air dry contaminated clothing in a well ventilated area.

SECTION 9 • SHIPPING INFORMATION

Environmentally Hazardous Substances, liquid, N.O.S. (Malathion)

HAZARD CLASS: Environmentally Hazardous Substance

UN NUMBER: UN3082, PGIII

Manufacture makes no warranty, express or implied, other than indicated on Label and MSDS. Customer assumes all risk of use and/or handling of this material when such use and / or handling is contrary to Label and MSDS

D.O.T. Hazard Classification: ORM A

Bill of lading Description: Chemicals, NOI

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