

# MATERIAL SAFETY DATA SHEET

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## SECTION I - GENERAL INFORMATION

TRADE NAME **DIMETHOATE 4EC**  
CHEMICAL NAME Dimethoate (O,O-Dimethyl S-[N-(Methylcarbamoyl) Methyl] Phosphorodithioate)  
CHEMICAL FAMILY Organophosphate Insecticide  
EPA REG. NO. 19713-231  
SIGNAL WORD WARNING

## SECTION II - INGREDIENTS (Class = H (Hazardous), NH (Non-Hazardous))

NAME	CAS NO.	% (by wt.)	TLV	CLASS
Dimethoate	60-51-5	43.5	NE	H
Inerts	N/A	56.5	N/A	NH

## SECTION III - PHYSICAL DATA

Boiling Point	156°C	Specific Gravity	1.104 gms/cc
Vapor Pressure	3.9 mmHg @ 20°C	% Volatiles	Approx. 45.0%
Vapor Density	34	Solubility in Water	Emulsifies
pH	6-8	Appearance/Odor	Clear-odorless liquid, strong odor

## SECTION IV - FIRE & EXPLOSION DATA

Flash Point >100°F (Combustible)  
Extinguishing Media Foam, carbon dioxide, dry chemical or water spray  
Fire Fighting Procedures Stay upwind. Dike area to prevent water runoff. Assure self-contained breathing apparatus is worn.

## SECTION V - REACTIVITY DATA

Stability	Stable
Conditions to Avoid	Extreme temperatures
Incompatibility	Strong alkalis and oxidizers
Hazardous Decomposition Products	Oxide of Nitrogen and Carbon. Sulfur and Phosphorus
Hazardous Polymerization	Will not occur

## SECTION VI - HEALTH HAZARD DATA

Carcinogenicity N/A  
Toxicity Data Oral LD50 (Rat) = 60 mg/kg (Tech)  
Dermal LD50 (Rabbit) = 1 gm/kg (Tech)  
TLV Not established  
N.F.P.A. Health: 3, Fire: 2, Reactivity: 0  
(Rating: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Insignificant)  
Effects of Overexposure Cholinesterase inhibitor, muscle spasms, vomiting, headache

## SECTION VII - EMERGENCY PROCEDURES

**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 or convulsing person.

**If in Eyes:** Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

**If on Skin or Clothing:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes.

**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 treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.

**Note to Physician:** Atropine is antidotal. Pralidoxime chloride may be effective as an adjunct to atropine. This product may cause cholinesterase inhibition. Treatment should be directed at the control of symptoms and clinical condition. Dimethoate is an organophosphate insecticide/miticide.

## SECTION VIII - SPILL OR LEAK PROCEDURES

### Steps to be taken in case of material leak or spill

Pick up spills with absorbent clay or material. Place in suitable containers. Prevent spills from entering waterways. Assure that protective clothing is worn.

### Waste Disposal Method

Dispose of in accordance with Local, State, and Federal Regulations.

## SECTION IX - SPECIAL PROTECTION INFORMATION

Respiratory Protection	NIOSH approved respirator
Ventilation	General preferred
Protective Gloves	Rubber impervious
Eye Protection	Splashproof goggles
Other	Coveralls, long-sleeve shirt, rubber boots

## SECTION X - SPECIAL PRECAUTIONS

### Precautions To Be Taken In Handling & Storage

KEEP OUT OF REACH OF CHILDREN. FOLLOW LABEL DIRECTIONS CAREFULLY.

Domestic: Do not store near food or feed.

International: Poison

D.O.T. Description	Organophosphorus Pesticides, Liquid, Toxic, Flammable, (Dimethoate/Cyclohexanone), 6.1, UN-3017, PG-III, Marine Pollutant
Freight Description	Agricultural Insecticide, Liquid, N.O.S.
Reportable Quantity	10 Lbs.
ERG Guide Sheet	131

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