

Material Safety Data Sheet

Effective Date: 02-JAN-2003  
Product: 4 LB. METHYL PARATHION

I. IDENTIFICATION

Chemical Name: METHYL PARATHION  
Chemical Family: ORGANOPHOSPHATE PESTICIDES  
Formula: C8H10NO5PS, METHYL PARATHION  
Synonyms: METHYL 4E  
CAS Number: SEE INGREDIENT STATEMENT, SECTION III.  
EPA Number: 5905-528

II. PHYSICAL DATA

Boiling Point: 290 DEGREES F.  
Freezing Point: <35 DEGREES F.  
Spec Gravity: 1.053 GMS/CC  
Vapor Pressure: 1-2 MM HG  
Vapor Density: 3.66  
Solubility: 0.01%  
Volatiles: 58-60%  
Evaporation: NOT ESTABLISHED  
Melting Point: BELOW 63 DEGREES F.  
Appearance: CLEAR AMBER LIQUID, RANCID ODOR.

III. INGREDIENTS

Material	CAS Number	Percent	TLV	Hazard
METHYL PARATHION AND RELATED COMPOUNDS	00298-00-0	45.11	0.2 MG/M3	HIGHLY TOXIC
AROMATIC SOLVENTS	64742-95-6	50.89	100 PPM (SKIN)	SKIN & EYE IRRITANT

INERT INGREDIENTS  
(TRIMETHYLBENZENE (CAS 00095-63-6) 12.73%; XYLENE (CAS 01330-20-7) 1.19%; CUMENE (CAS 00098-92-8) .60%; ETHYLBENZENE (CAS 00100-41-4) .20%)

IV. FIRE AND EXPLOSION HAZARD

Flash Point: 108 DEGREES F.  
Autoignition Temp: APPROX. 830 DEGS. F.  
Flammable Limit: LEL 0.7% - UEL 7%  
Extinguishing Media: USE WATER, FOAM, DRY CHEMICAL, AND CARBON DIOXIDE EXTINGUISHING MEDIA.  
Special Fire Fight Proc: A SELF-CONTAINED BREATHING APPARATUS AND FULL

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PROTECTIVE EQUIPMENT SHOULD BE USED TO FIGHT FIRES WHERE THIS MATERIAL IS PRESENT. STAY UPWIND AND KEEP SAFE DISTANCE FROM FIRE.  
Fire and Expl Hazard: THERMALLY UNSTABLE ABOVE 150 DEGREES F. TEMPERATURES GREATER THAN 150 DEGREES F. MAY CAUSE CONTAINERS TO RUPTURE VIOLENTLY.  
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V. HEALTH HAZARD

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Carcinogen Information: NONE CURRENTLY KNOWN.  
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ACUTE EFFECTS OF OVER EXPOSURE

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Swallowing: HIGHLY TOXIC; ACUTE ORAL LD50 (RAT) = 13 MG/KG.TOXICITY CATEGORY I.  
Skin Absorption: HIGHLY TOXIC; ACUTE DERMAL LD50 (RAT) = 662 MG/KG.TOXICITY CATEGORY II.  
Inhalation: HIGHLY TOXIC; ACUTE INHALATION LC50 (RAT) 120 MG/L (4HR.)TOXICITY CATEGORY II.  
Skin contact: SLIGHTLY IRRITATING TO SKIN. TOXICITY CATEGORY IV.  
Eye Contact: SLIGHTLY IRRITATING TO EYES. TOXICITY CATEGORY III.  
Chronic Effects: HEADACHES, NAUSEA, VOMITING, CRAMPS, WEAKNESS, BLURRED VISION, PIN-POINTED PUPILS, TIGHTNESS IN CHEST, LABORED BREATHING, NERVOUSNESS, SWEATING, WATERING OF EYES, MUSCLE SPASMS AND COMA.  
Other Hazard: NONE CURRENTLY KNOWN.  
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EMERGENCY AND FIRST AID PROCEDURES

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Swallowing: IF VICTIM IS FULLY CONSCIOUS, IMMEDIATELY GIVE 1 OR 2 GLASSES OF WATER TO DRINK AND INDUCE VOMITING. OBTAIN MEDICAL ATTENTION IMMEDIATELY.  
Skin: WASH SKIN THOROUGHLY WITH SOAP AND WATER. OBTAIN MEDICAL ATTENTION IMMEDIATELY. LAUNDER CLOTHING BEFORE REUSE.  
Inhalation: IF SIGNS AND SYMPTOMS ARE NOTED. MOVE TO FRESH AIR. OBTAIN MEDICAL ATTENTION IMMEDIATELY.  
Eyes: FLUSH EYES WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. IF IRRITATION DEVELOPS, OBTAIN MEDICAL ATTENTION IMMEDIATELY.  
Notes to Physician: ANTIDOTE - ADMINISTER ATROPINE SULFATE IN LARGE DOSES, TWO TO FOUR MG INTRAVENOUSLY OR INTRAMUSCULARLY AS SOON AS CYANOIS IS OVER COME. REPEAT AT FIVE TO TEN MINUTE INTERVALS  
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UNTIL SIGNS OF ATROPINIZATION APPEAR. 2-PAMCHLORIDE IS A PHARMACOLOGIC ANTIDOTE AND MAY BE ADMINISTERED AS AN ADJUNCT TO, BUT NOT A SUBSTITUTE FOR ATROPINE, WHICH IS A SYMPTOMATIC AND OFTEN LIFE-SAVING ANTIDOTE. "DO NOT GIVE MORPHINE OR TRANQUILIZERS". THIS PRODUCT IS A STRONG CHOLINESTERASE INHIBITOR AFFECTING THE CENTRAL AND PERIPHERAL NERVOUS SYSTEM AND PRODUCING CARDIAC AND RESPIRATORY DEPRESSION. AT FIRST SIGN OF PULMONARY EDEMA, THE PATIENT SHOULD BE GIVEN SUPPLEMENTAL OXYGEN AND TREATED SYMPTOMATICALLY. CONTINUED ABSORPTION OF THE POISON MAY OCCUR AND FATAL RELAPSES HAVE BEEN REPORTED AFTER INITIAL IMPROVEMENT. VERY CLOSE SUPERVISION OF THE PATIENT IS INDICATED FOR AT LEAST 48 HOURS.  
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VI. REACTIVITY  
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Stability: Stable  
Conditions to Avoid: KEEP PRODUCT AWAY FROM HIGH TEMPERATURES AND OPEN FLAMES.  
Polymerization: Will Not Occur  
Conditions to Avoid: NONE CURRENTLY KNOWN.  
Incompatibility material: STRONG ALKALIES AND STRONG OXIDIZING COMPOUNDS.  
Hazardous Combustion: BURNING CAN PRODUCE NITROGEN OXIDES, HYDROGEN SULPHIDE, CARBON DIOXIDE, AND CARBON MONOXIDE.  
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VII. SPILL OR LEAK PROCEDURES  
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Spill or Leak Proc: ROPE OFF CONTAMINATED AREA. COVER SPILL WITH SODA-ASH, LIME, CLAY, OR SAWDUST. WASH FLOORS WITH CAUSTIC OR SODA ASH UNTIL YELLOW STAINS CEASE. PLACE ALL MATERIAL IN SUITABLE CONTAINERS FOR DISPOSAL. WOOD CANNOT BE DECONTAMINATED.  
Waste Disposal Method: THIS MATERIAL MUST BE DISPOSED OF ACCORDING TO FEDERAL, STATE, OR LOCAL PROCEDURES UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT.  
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VIII. SPECIAL PROTECTION INFORMATION  
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Respiration: WEAR AN NIOSH/MSHA APPROVED FULL FACEMASK CHEMICAL CARTRIDGE RESPIRATOR WITH ORGANIC PESTICIDE VAPOR CARTRIDGE.  
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Ventilation: WORK IN A WELL VENTILATED AREA, DO NOT BREATHE VAPORS. USE ONLY A SPARK PROOF VENTILATION SYSTEM.

Gloves: IMPERVIOUS

Eyes: CHEMICAL WORKER GOGGLES

Other: EMERGENCY SHOWER, EYE WASH STATION, IMPERVIOUS APRON AND FOOTWEAR.

IX. SPECIAL PRECAUTIONS

Special precaution: KEEP OUT OF REACH OF CHILDREN. DO NOT STORE WITH FOOD, FEED, OR OTHER MATERIAL TO BE USED OR CONSUMED BY HUMANS OR ANIMALS. DO NOT CONTAMINATE WATER SUPPLIES, LAKES, STREAMS, OR PONDS. KEEP ALL FOOD IN A SEPERATE AREA, AWAY FROM THE STORAGE/USE LOCATION OF THE CHEMICAL. PREVENT EATING, DRINKING, TOBACCO USAGE AND COSMETIC APPLICATION IN AREAS WHERE THERE IS A POTENTIAL EXPOSURE TO THIS MATERIAL. ALWAYS WASH HANDS PRIOR TO EATING OR USING TOBACCO. THIS PRODUCT IS A FEDERAL RESTRICTED USE PESTICIDE.

Other precaution: A) RCRA HAZARDOUS WASTE NUMBER:----- D001, PO71, U055, U239  
B) SARA TITLE III, SECTION 313:----- XYLENE (1.19%)  
C) SARA THRESHOLD PLANNING QUANTITY: 100/10,000 LBS.  
D) CERCLA REPORTABLE QUANTITY:----- 25 GALLON  
E) 49 CFR 172.101, APPENDIX A:----- HAZARDOUS SUBSTANCE  
F) 49 CFR 172.101, APPENDIX B:----- MARINE POLLUTANT

X. SHIPPING INFORMATION

Shipping name: RQ ORGANOPHOSPHORUS PESTICIDE, LIQUID, TOXIC, FLAMMABLE,(METHYL PARATHION), 6.1, (3), UN3017, PG II "ERG #131"  
Hazard Class: POISON (6)  
Identification No: UN3017  
Labels Required: POISON 6, FLAMMABLE  
Placarding: POISON (6)  
Freight Class: INSECTICIDES, AGRICULTURAL, LIQUID, NOIBN(NMFC ITEM 102120, CLASS 60)

Helena Chemical Company  
PH: 901-761-0050  
CHEMTREC: 800-424-9300

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Chemical Name	Equivalent R.Q.
METHYL PARATHION	100 LBS(45.4 KG)
XYLENE	100 LBS(45.4 KG)

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XI. GENERAL PRODUCT INFORMATION

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National Fire Protection Association Rating:  
(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 3                      Fire: 2                      Reactivity: 1

S.A.R.A. Title III Hazard Classification: (Yes/No)

Immediate (Acute) Health: Y                      Delayed (Chronic) Health: Y  
Sudden Release of pressure: N                      Fire: Y  
Reactive: N

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Mail inquiries to: 225 Schilling Blvd., Suite 300 Collierville, TN 38017  
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