

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients Name

Chemical Name	CAS-No	Weight %	OSHA PEL
Methyl parathion	298-00-0	20.9	0.2 mg/m ³

4. FIRST AID MEASURES

Eye Contact	Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Skin Contact	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.
Inhalation	Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration. Call a poison control center or doctor for further treatment advice.
Ingestion	Call a physician or Poison Control Centre immediately 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 Never give anything by mouth to an unconscious person
Notes to Physician	The active ingredient of Penncap M is an organophosphate cholinesterase inhibitor. Atropine is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine. Morphine is contraindicated.

5. FIRE-FIGHTING MEASURES

Flammable Explosive Properties	
Flash Point	> 96°C
Autoignition Temperature	Not available
Flammability Limits in Air	Not available
Extinguishing Media	Use: Water spray, Carbon dioxide (CO ₂), Foam, Dry chemical.
Fire/Explosion Hazard	Firefighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear and self-contained breathing apparatus. Fire fighting equipment should be thoroughly decontaminated after use.
Hazardous Combustion Products	Avoid breathing fumes from fire exposed material. .
NFPA	Health 1 Flammability 1 Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Avoid contact with the skin and the eyes. Use personal protective equipment.
Environmental Precautions	Consult a regulatory specialist to determine appropriate state or local reporting requirements, for assistance in waste characterization and/or hazardous waste disposal and other requirements listed in pertinent environmental permits..
Methods for Clean-up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling	Keep out of reach of children. Wear personal protective equipment. Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.
Storage	Store in an area where cross-contamination with pesticides, fertilizers, food or feed could not occur. . Store in cool/well-ventilated place. Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL
Methyl parathion	0.2 mg/m ³	0.2 mg/m ³

Engineering Controls	Investigate engineering techniques to reduce exposures. Local mechanical exhaust ventilation is preferred. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems. .
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Personal Protective Equipment

Eye/face Protection

Skin Protection

Respiratory Protection

Avoid contact with eyes. Use eye protection to avoid eye contact. . Goggles.

Chemical resistant gloves. Chemical resistant protective clothing.

For exposure in enclosed areas, wear a respirator with an organic-vapor removing cartridge with a prefilter approved for pesticides(MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N,P,R, or HE filter.

For exposure outdoors, wear a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or NIOSH approved respirator with any N,R,P, or HE filter. .

General Hygiene Considerations

Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Beige	Odor	Organophosphate odor
Physical State	Liquid	pH	(@20C)1.081
Boiling Point/Range	100°C	Melting Point/Range	Not available
Specific Gravity	Not available	Solubility	Dispersible in water
Evaporation Rate	Not available	Vapor Pressure	Not available
Vapor Density	Not available	VOC Content	Not available
Viscosity	Not available	Molecular Weight	No data available
Bulk Density	No data available	Percent Solids	Not available
Percent Volatiles	Not available		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage conditions
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Conditions to Avoid	Keep away from children.
Incompatible Materials	Materials that react with water.
Hazardous Decomposition Products	Mixed toxic substances from thermal degradation.
Possibility of Hazardous Polymerization	None under normal processing

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information

Penncap-M

Single exposure studies indicate that this material is slightly toxic if swallowed (rat LD50 1,237 mg/kg), no more than slightly toxic if absorbed through skin (rabbit LD50 >1,250 mg/kg) practically non-toxic if inhaled (rat 1 hr LC50 2920 ppm) slightly irritating to rabbit skin and non-irritating to rabbit eyes.

Chronic Toxicity

There are no known carcinogenic chemicals in this product

Carcinogenicity

12. ECOLOGICAL INFORMATION

Ecotoxicity

Methyl parathion

This material is slightly toxic to mollusca (48 hr LC50 12-25 mg/l) highly toxic to Daphnia magna (24 hr LC50 4.1-4.5ug/l) and mysid shrimp (96 hr LC50 0.32-0.98 ug/l) moderately to highly toxic to freshwater fish (96hr LC50 1.22-15.3 mg/l) and slightly to highly toxic to saltwater fish (96 hr LC50 0.059-75.8 mg/l). Values in birds include the following: mallard duck(dietary LC50 336-682 mg/kg) Japapanese quail (dietary LC50 69-79 mg/kg) and bobwhite quail (dietary LC50 90 mg/kg).

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide or rinsate is a violation of Federal law. If the wastes cannot be disposed of by use or 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. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. Do not apply directly to wetlands or water..

Contaminated Packaging

Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

DOT

NOT regulated in containers below 50 gallons when shipped other than by sea. When shipped in containers above 50 gallons or by sea mode this material is regulated as described below.

Proper Shipping Name

Environmentally hazardous substance, liquid, n.o.s (Methyl parathion)

Hazard Class

9

UN-No

3082

Packing Group

PG III

Reportable Quantity (RQ):

100 lbs (Methyl parathion)

Marine Pollutant:

Yes.

ICAO

Not regulated

IATA Not regulated

IMDG/IMO

Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s. (Methyl parathion)
Hazard Class 9
UN-No 3082
Packing Group PG III
EmS No. F-A, S-F
Marine Pollutant Yes

15. REGULATORY INFORMATION

International Inventories

Methyl parathion
EINECS/ELINCS Listed
CHINA Listed
KECL Listed

USA

Federal Regulations

SARA 313
 Y

Chemical Name	CAS-No	Weight %
Methyl parathion	298-00-0	20.9

SARA 311/312 Hazardous Categorization

Chronic Health Hazard No
Acute Health Hazard Yes
Fire Hazard No
Sudden Release of Pressure Hazard No
Reactive Hazard No

Clean Water Act

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Methyl parathion	100 lbs			Listed.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

CERCLA

Chemical Name	CERCLA EHS RQs
Methyl parathion	100 lbs

RCRA

Chemical Name	RCRA - D Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Methyl parathion		P071	

Pesticide Information

State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

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Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Methyl parathion	Listed.	Substance no. 1283 Listed.	Listed.	Listed.	Listed.

International Regulations**Mexico - Grade**

Mexico - Grade

Chemical Name	Category	Carcinogen Status	Exposure Limits
Methyl parathion			0.2 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

Not determined

16. OTHER INFORMATION

Revision Date

08-Nov-2007

Revision Summary

Update logo Add information on previous EPA registration number

Miscellaneous

UPI has acquired Cerexagri, Inc. The previous EPA registration number assignment 4581-393

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End of MSDS