

**1. Identification**

<b>Product identifier</b>	<b>FDA Pesticide Mixture GC/LC 1</b>	
<b>Other means of identification</b>		
<b>Item</b>	M-FDAPSMXGCLC1A1	
<b>Recommended use</b>	For Laboratory Use Only	
<b>Recommended restrictions</b>	None known.	
<b>Manufacturer/Importer/Supplier/Distributor information</b>		
<b>Manufacturer</b>		
<b>Company name</b>	Chem Service, Inc.	
<b>Address</b>	660 Tower Lane West Chester, PA 19380 United States	
<b>Telephone</b>	Toll Free	800-452-9994
	Direct	610-692-3026
<b>Website</b>	www.chemservice.com	
<b>E-mail</b>	info@chemservice.com	
<b>Emergency phone number</b>	Chemtrec US	800-424-9300
	Chemtrec outside US	+1 703-527-3887

**2. Hazard(s) identification**

<b>Physical hazards</b>	Flammable liquids	Category 2
<b>Health hazards</b>	Acute toxicity, oral	Category 3
	Acute toxicity, dermal	Category 3
	Acute toxicity, inhalation	Category 3
	Serious eye damage/eye irritation	Category 2A
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1
<b>OSHA defined hazards</b>	Not classified.	
<b>Label elements</b>		



<b>Signal word</b>	Danger
<b>Hazard statement</b>	Highly flammable liquid and vapor. Toxic if swallowed. Toxic in contact with skin. Causes serious eye irritation. Toxic if inhaled. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
<b>Precautionary statement</b>	
<b>Prevention</b>	Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing vapors. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing. Wear protective gloves/eye protection/face protection.

<b>Response</b>	If swallowed: Immediately call a poison center/doctor. Rinse mouth. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor. If eye irritation persists: Get medical advice/attention. Take off immediately all contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to extinguish. Collect spillage.
<b>Storage</b>	Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
<b>Disposal</b>	Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Hazard(s) not otherwise classified (HNOC)</b>	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.
<b>Supplemental information</b>	99.73% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 99.73% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Acetonitrile		75-05-8	99.73
Azinphos-methyl		86-50-0	0.01
Chlorfenvinphos		470-90-6	0.01
Chlorpyrifos		2921-88-2	0.01
Chlorpyrifos Methyl		5598-13-0	0.01
Coumaphos		56-72-4	0.01
Diazinon		333-41-5	0.01
Dichlorvos		62-73-7	0.01
Dicrotophos		141-66-2	0.01
Dimethoate		60-51-5	0.01
EPN		2104-64-5	0.01
Ethion		563-12-2	0.01
Ethofumesate		26225-79-6	0.01
Kresoxim-methyl		143390-89-0	0.01
Malathion		121-75-5	0.01
Mepanipyrim		110235-47-7	0.01
Methidathion		950-37-8	0.01
Methyl parathion		298-00-0	0.01
Mevinphos		7786-34-7	0.01
Monocrotophos		6923-22-4	0.01
Parathion		56-38-2	0.01
Phorate sulfone		2588-04-7	0.01
Phosmet		732-11-6	0.01
Pirimiphos-methyl		29232-93-7	0.01
Prochloraz		67747-09-5	0.01
Profenofos		41198-08-7	0.01
Prophos		13194-48-4	0.01
Triazophos		24017-47-8	0.01

### 4. First-aid measures

#### Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician.

#### Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.

<b>Eye contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
<b>Most important symptoms/effects, acute and delayed</b>	Convulsions. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Take off immediately all contaminated clothing. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Alcohol resistant foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	Highly flammable liquid and vapor.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.  Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.  Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

## Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

## 7. Handling and storage

### Precautions for safe handling

Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Handling operations that can promote accumulation of static charges include but are not limited to: mixing, filtering, pumping at high flow rates, splash filling, creating mists or sprays, tank and container filling, tank cleaning, sampling, gauging, switch loading, vacuum truck operations. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not taste or swallow. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

For additional information on equipment bonding and grounding, refer to the Canadian Electrical Code in Canada, (CSA C22.1), or the American Petroleum Institute (API) Recommended Practice 2003, "Protection Against Ignitions Arising out of Static, Lightning, and Stray Currents" or National Fire Protection Association (NFPA) 77, "Recommended Practice on Static Electricity" or National Fire Protection Association (NFPA) 70, "National Electrical Code".

### Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS). Freezer storage (-20 - -25 °C)

## 8. Exposure controls/personal protection

### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Acetonitrile (CAS 75-05-8)	PEL	70 mg/m3 40 ppm	
Azinphos-methyl (CAS 86-50-0)	PEL	0.2 mg/m3	
Dichlorvos (CAS 62-73-7)	PEL	1 mg/m3	
EPN (CAS 2104-64-5)	PEL	0.5 mg/m3	
Malathion (CAS 121-75-5)	PEL	15 mg/m3	Total dust.
Mevinphos (CAS 7786-34-7)	PEL	0.1 mg/m3	
Parathion (CAS 56-38-2)	PEL	0.1 mg/m3	

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Acetonitrile (CAS 75-05-8)	TWA	20 ppm	
Azinphos-methyl (CAS 86-50-0)	TWA	0.2 mg/m3	Inhalable fraction and vapor.
Chlorpyrifos (CAS 2921-88-2)	TWA	0.1 mg/m3	Inhalable fraction and vapor.
Coumaphos (CAS 56-72-4)	TWA	0.05 mg/m3	Inhalable fraction and vapor.
Diazinon (CAS 333-41-5)	TWA	0.01 mg/m3	Inhalable fraction and vapor.
Dichlorvos (CAS 62-73-7)	TWA	0.1 mg/m3	Inhalable fraction and vapor.
Dicrotophos (CAS 141-66-2)	TWA	0.05 mg/m3	Inhalable fraction and vapor.

**US. ACGIH Threshold Limit Values**

Components	Type	Value	Form
EPN (CAS 2104-64-5)	TWA	0.1 mg/m3	Inhalable fraction.
Ethion (CAS 563-12-2)	TWA	0.05 mg/m3	Inhalable fraction and vapor.
Malathion (CAS 121-75-5)	TWA	1 mg/m3	Inhalable fraction and vapor.
Methyl parathion (CAS 298-00-0)	TWA	0.02 mg/m3	Inhalable fraction and vapor.
Mevinphos (CAS 7786-34-7)	TWA	0.01 mg/m3	Inhalable fraction and vapor.
Monocrotophos (CAS 6923-22-4)	TWA	0.05 mg/m3	Inhalable fraction and vapor.
Parathion (CAS 56-38-2)	TWA	0.05 mg/m3	Inhalable fraction and vapor.

**US. NIOSH: Pocket Guide to Chemical Hazards**

Components	Type	Value
Acetonitrile (CAS 75-05-8)	TWA	34 mg/m3 20 ppm
Azinphos-methyl (CAS 86-50-0)	TWA	0.2 mg/m3
Chlorpyrifos (CAS 2921-88-2)	STEL	0.6 mg/m3
	TWA	0.2 mg/m3
Diazinon (CAS 333-41-5)	TWA	0.1 mg/m3
Dichlorvos (CAS 62-73-7)	TWA	1 mg/m3
Dicrotophos (CAS 141-66-2)	TWA	0.25 mg/m3
EPN (CAS 2104-64-5)	TWA	0.5 mg/m3
Ethion (CAS 563-12-2)	TWA	0.4 mg/m3
Malathion (CAS 121-75-5)	TWA	10 mg/m3
Methyl parathion (CAS 298-00-0)	TWA	0.2 mg/m3
Mevinphos (CAS 7786-34-7)	STEL	0.3 mg/m3
	TWA	0.03 ppm 0.1 mg/m3 0.01 ppm
Monocrotophos (CAS 6923-22-4)	TWA	0.25 mg/m3
Parathion (CAS 56-38-2)	TWA	0.05 mg/m3

**Biological limit values****ACGIH Biological Exposure Indices**

Components	Value	Determinant	Specimen	Sampling Time
Parathion (CAS 56-38-2)	70 %	Cholinesterase activity	Reduction from individual baseline activity in red blood cells	*
	0.5 mg/g	Total p-nitrophenol	Creatinine in urine	*

\* - For sampling details, please see the source document.

**Exposure guidelines****US - California OELs: Skin designation**

Acetonitrile (CAS 75-05-8)	Can be absorbed through the skin.
Azinphos-methyl (CAS 86-50-0)	Can be absorbed through the skin.
Chlorpyrifos (CAS 2921-88-2)	Can be absorbed through the skin.
Diazinon (CAS 333-41-5)	Can be absorbed through the skin.
Dichlorvos (CAS 62-73-7)	Can be absorbed through the skin.
Dicrotophos (CAS 141-66-2)	Can be absorbed through the skin.

EPN (CAS 2104-64-5)  
Ethion (CAS 563-12-2)  
Malathion (CAS 121-75-5)  
Methyl parathion (CAS 298-00-0)  
Mevinphos (CAS 7786-34-7)  
Parathion (CAS 56-38-2)

Can be absorbed through the skin.  
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**US - Minnesota Haz Subs: Skin designation applies**

Acetonitrile (CAS 75-05-8)  
Azinphos-methyl (CAS 86-50-0)  
Chlorpyrifos (CAS 2921-88-2)  
Diazinon (CAS 333-41-5)  
Dichlorvos (CAS 62-73-7)  
Dicrotophos (CAS 141-66-2)  
EPN (CAS 2104-64-5)  
Ethion (CAS 563-12-2)  
Malathion (CAS 121-75-5)  
Methyl parathion (CAS 298-00-0)  
Mevinphos (CAS 7786-34-7)  
Parathion (CAS 56-38-2)

Skin designation applies.  
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**US - Tennessee OELs: Skin designation**

Azinphos-methyl (CAS 86-50-0)  
Chlorpyrifos (CAS 2921-88-2)  
Diazinon (CAS 333-41-5)  
Dichlorvos (CAS 62-73-7)  
Dicrotophos (CAS 141-66-2)  
EPN (CAS 2104-64-5)  
Ethion (CAS 563-12-2)  
Malathion (CAS 121-75-5)  
Methyl parathion (CAS 298-00-0)  
Mevinphos (CAS 7786-34-7)  
Parathion (CAS 56-38-2)

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**US ACGIH Threshold Limit Values: Skin designation**

Acetonitrile (CAS 75-05-8)  
Azinphos-methyl (CAS 86-50-0)  
Chlorpyrifos (CAS 2921-88-2)  
Coumaphos (CAS 56-72-4)  
Diazinon (CAS 333-41-5)  
Dichlorvos (CAS 62-73-7)  
Dicrotophos (CAS 141-66-2)  
EPN (CAS 2104-64-5)  
Ethion (CAS 563-12-2)  
Malathion (CAS 121-75-5)  
Methyl parathion (CAS 298-00-0)  
Mevinphos (CAS 7786-34-7)  
Monocrotophos (CAS 6923-22-4)  
Parathion (CAS 56-38-2)

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**US NIOSH Pocket Guide to Chemical Hazards: Skin designation**

Azinphos-methyl (CAS 86-50-0)  
Chlorpyrifos (CAS 2921-88-2)  
Diazinon (CAS 333-41-5)  
Dichlorvos (CAS 62-73-7)  
Dicrotophos (CAS 141-66-2)  
EPN (CAS 2104-64-5)  
Ethion (CAS 563-12-2)  
Malathion (CAS 121-75-5)  
Methyl parathion (CAS 298-00-0)  
Mevinphos (CAS 7786-34-7)  
Parathion (CAS 56-38-2)

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**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Azinphos-methyl (CAS 86-50-0)  
Dichlorvos (CAS 62-73-7)  
EPN (CAS 2104-64-5)  
Malathion (CAS 121-75-5)  
Mevinphos (CAS 7786-34-7)

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**Appropriate engineering controls** Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin protection**

**Hand protection** Wear appropriate chemical resistant gloves.

**Other** Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection** If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Dust & vapor respirator.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations** When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

**Physical state** Liquid.

**Form** Liquid.

**Color** Not available.

**Odor** Not available.

**Odor threshold** Not available.

**pH** Not available.

**Melting point/freezing point** -49 °F (-45 °C) estimated

**Initial boiling point and boiling range** 178.88 °F (81.6 °C) estimated

**Flash point** 42.0 °F (5.6 °C) estimated

**Evaporation rate** Not available.

**Flammability (solid, gas)** Not applicable.

### Upper/lower flammability or explosive limits

**Flammability limit - lower (%)** 3 % estimated

**Flammability limit - upper (%)** 16 % estimated

**Explosive limit - lower (%)** Not available.

**Explosive limit - upper (%)** Not available.

**Vapor pressure** 118.4 hPa estimated

**Vapor density** Not available.

**Relative density** Not available.

### Solubility(ies)

**Solubility (water)** Not available.

**Partition coefficient (n-octanol/water)** Not available.

**Auto-ignition temperature** 975.2 °F (524 °C) estimated

**Decomposition temperature** Not available.

**Viscosity** Not available.

### Other information

**Density** 0.78848 g/cm3 estimated

<b>Explosive properties</b>	Not explosive.
<b>Flammability class</b>	Flammable IB estimated
<b>Oxidizing properties</b>	Not oxidizing.
<b>Percent volatile</b>	99.73 % estimated
<b>Specific gravity</b>	0.79 estimated
<b>VOC</b>	99.73 % estimated

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Toxic if inhaled.
<b>Skin contact</b>	Toxic in contact with skin.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	Toxic if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics** Convulsions. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

### Information on toxicological effects

**Acute toxicity** Toxic if inhaled. Toxic in contact with skin. Toxic if swallowed.

Components	Species	Test Results
Azinphos-methyl (CAS 86-50-0)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	4.4 mg/kg
Chlorfenvinphos (CAS 470-90-6)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	31 mg/kg
<b>Inhalation</b>		
LC50	Rat	0.05 mg/l, 4 Hours
Chlorpyrifos (CAS 2921-88-2)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	202 mg/kg
<b>Inhalation</b>		
LC50	Rat	> 0.2 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	82 mg/kg
Chlorpyrifos Methyl (CAS 5598-13-0)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	3713 mg/kg



Components	Species	Test Results
<b>Inhalation</b>		
LC50	Rat	> 0.67 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	1500 mg/kg
Diazinon (CAS 333-41-5)		
<b><u>Acute</u></b>		
<b>Oral</b>		
LD50	Rat	66 mg/kg
Dichlorvos (CAS 62-73-7)		
<b><u>Acute</u></b>		
<b>Inhalation</b>		
LC50	Rat	0.015 mg/l, 4 Hours
Dicrotophos (CAS 141-66-2)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rat	42 mg/kg
<b>Inhalation</b>		
LC50	Rat	0.09 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	9 mg/kg
EPN (CAS 2104-64-5)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rat	25 mg/kg
<b>Inhalation</b>		
LC50	Rat	0.16 mg/l, 1 Hours
Ethofumesate (CAS 26225-79-6)		
<b><u>Acute</u></b>		
<b>Inhalation</b>		
LC50	Rat	> 3.97 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	1130 mg/kg
Kresoxim-methyl (CAS 143390-89-0)		
<b><u>Acute</u></b>		
<b>Inhalation</b>		
LC50	Rat	5.6 mg/l, 4 Hours
Malathion (CAS 121-75-5)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	2460 - 6150 mg/kg
<b>Inhalation</b>		
LC50	Rat	0.0438 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	290 mg/kg
Mevinphos (CAS 7786-34-7)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rat	4.7 mg/kg

Components	Species	Test Results
Monocrotophos (CAS 6923-22-4)		
<b>Acute</b>		
<b>Inhalation</b>		
LC50	Rat	0.08 mg/l, 4 Hours
Parathion (CAS 56-38-2)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	6.8 mg/kg
<b>Inhalation</b>		
LC50	Rat	0.084 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	2 mg/kg
Pirimiphos-methyl (CAS 29232-93-7)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	2000 mg/kg
<b>Inhalation</b>		
LC50	Rat	> 5.04 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	1250 mg/kg
Profenofos (CAS 41198-08-7)		
<b>Acute</b>		
<b>Inhalation</b>		
LC50	Rat	3 mg/l, 4 Hours
<b>Oral</b>		
LD50	Rat	400 mg/kg
Prophos (CAS 13194-48-4)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	8.5 mg/kg
Triazophos (CAS 24017-47-8)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	66 mg/kg

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

**Respiratory or skin sensitization**

**ACGIH sensitization**

AZINPHOS-METHYL, INHALABLE FRACTION AND VAPOR (CAS 86-50-0) Dermal sensitization

DICHLORVOS (DDVP), INHALABLE FRACTION AND VAPOR (CAS 62-73-7) Dermal sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Diazinon (CAS 333-41-5) 2A Probably carcinogenic to humans.

Dichlorvos (CAS 62-73-7)	2B Possibly carcinogenic to humans.
Malathion (CAS 121-75-5)	2A Probably carcinogenic to humans.
Methyl parathion (CAS 298-00-0)	3 Not classifiable as to carcinogenicity to humans.
Parathion (CAS 56-38-2)	2B Possibly carcinogenic to humans.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

**12. Ecological information**

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

Components	Species	Test Results
Acetonitrile (CAS 75-05-8)		
<b>Aquatic</b>		
Fish LC50	Fathead minnow ( <i>Pimephales promelas</i> )	> 100 mg/l, 96 hours
Azinphos-methyl (CAS 86-50-0)		
<b>Aquatic</b>		
Crustacea EC50	Water flea ( <i>Daphnia magna</i> )	0.0012 - 0.002 mg/l, 48 hours
Fish LC50	Topsmelt ( <i>Atherinops affinis</i> )	0.0027 - 0.0042 mg/l, 96 hours
Chlorfenvinphos (CAS 470-90-6)		
<b>Aquatic</b>		
Fish LC50	Bluegill ( <i>Lepomis macrochirus</i> )	0.017 - 0.031 mg/l, 96 hours
Chlorpyrifos (CAS 2921-88-2)		
<b>Aquatic</b>		
Crustacea EC50	Scud ( <i>Gammarus pulex</i> )	0.0002 - 0.0005 mg/l, 48 hours
Fish LC50	Tidewater silverside ( <i>Menidia peninsulae</i> )	0.0007 - 0.0011 mg/l, 96 hours
Chlorpyrifos Methyl (CAS 5598-13-0)		
<b>Aquatic</b>		
Fish LC50	Brook trout ( <i>Salvelinus fontinalis</i> )	0.065 - 0.15 mg/l, 96 hours
Coumaphos (CAS 56-72-4)		
<b>Aquatic</b>		
Crustacea EC50	Water flea ( <i>Simocephalus serrulatus</i> )	0.0001 mg/l, 48 hours
Fish LC50	Bluegill ( <i>Lepomis macrochirus</i> )	0.34 mg/l, 96 hours
Diazinon (CAS 333-41-5)		
<b>Aquatic</b>		
Crustacea EC50	Water flea ( <i>Daphnia pulex</i> )	0.0007 - 0.0012 mg/l, 48 hours
Fish LC50	Common eel ( <i>Anguilla anguilla</i> )	0.066 - 0.102 mg/l, 96 hours
Dichlorvos (CAS 62-73-7)		
<b>Aquatic</b>		
Crustacea EC50	Water flea ( <i>Daphnia pulex</i> )	0 - 0.0001 mg/l, 48 hours
Fish LC50	Cutthroat trout ( <i>Oncorhynchus clarki</i> )	0.141 - 0.321 mg/l, 96 hours

Components	Species		Test Results
Dicrotophos (CAS 141-66-2)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Simocephalus serrulatus</i> )	0.21 - 0.32 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> )	2.8 mg/l, 96 hours
Dimethoate (CAS 60-51-5)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	0.48 - 0.66 mg/l, 48 hours
Fish	LC50	Brown trout ( <i>Salmo trutta</i> )	0.13 mg/l, 96 hours
EPN (CAS 2104-64-5)			
<b>Aquatic</b>			
Fish	LC50	Striped bass ( <i>Morone saxatilis</i> )	0.025 - 0.15 mg/l, 96 hours
Ethion (CAS 563-12-2)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	0 - 0.0001 mg/l, 48 hours
Fish	LC50	Guppy ( <i>Poecilia reticulata</i> )	0.1 - 0.17 mg/l, 96 hours
Ethofumesate (CAS 26225-79-6)			
<b>Aquatic</b>			
Fish	LC50	Rainbow trout,donaldson trout ( <i>Oncorhynchus mykiss</i> )	0.1 - 1 mg/l, 96 hours
Malathion (CAS 121-75-5)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	0.0007 - 0.0014 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> )	0.04 - 0.052 mg/l, 96 hours
Methidathion (CAS 950-37-8)			
<b>Aquatic</b>			
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> )	0.006 - 0.013 mg/l, 96 hours
Methyl parathion (CAS 298-00-0)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	0.0001 - 0.0002 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> )	1.6 mg/l, 96 hours
Mevinphos (CAS 7786-34-7)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia pulex</i> )	0.0001 - 0.0002 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> )	0.0196 - 0.0258 mg/l, 96 hours
Monocrotophos (CAS 6923-22-4)			
<b>Aquatic</b>			
Crustacea	EC50	Brown shrimp ( <i>Penaeus aztecus</i> )	0.069 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> )	4 mg/l, 96 hours
Parathion (CAS 56-38-2)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia pulex</i> )	0.0004 - 0.0008 mg/l, 48 hours
Fish	LC50	Guppy ( <i>Poecilia reticulata</i> )	0.056 mg/l, 96 hours
Phosmet (CAS 732-11-6)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	0.0042 - 0.0084 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout ( <i>Oncorhynchus mykiss</i> )	0.066 - 0.167 mg/l, 96 hours

Components	Species	Test Results
Pirimiphos-methyl (CAS 29232-93-7)		
<b>Aquatic</b>		
Fish	LC50	Nile tilapia (Tilapia nilotica)
		0.0031 - 0.004 mg/l, 96 hours
Profenofos (CAS 41198-08-7)		
<b>Aquatic</b>		
Crustacea	EC50	Water flea (Daphnia magna)
		0.0004 - 0.0006 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)
		0.0101 - 0.0181 mg/l, 96 hours
Prophos (CAS 13194-48-4)		
<b>Aquatic</b>		
Fish	LC50	Carp (Cyprinus carpio)
		0.47 - 0.88 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

### Persistence and degradability

#### Bioaccumulative potential

##### Partition coefficient n-octanol / water (log Kow)

Acetonitrile	-0.34
Azinphos-methyl	2.75
Chlorfenvinphos	3.81
Chlorpyrifos	5.27
Chlorpyrifos Methyl	4.31
Coumaphos	4.13
Diazinon	3.81
Dichlorvos	1.43
Dicrotophos	0
EPN	4.78
Ethion	5.073
Kresoxim-methyl	3.4
Malathion	2.36
Methidathion	2.2
Methyl parathion	2.86
Mevinphos	0.13
Monocrotophos	-0.2
Parathion	3.83
Phosmet	2.83
Pirimiphos-methyl	4.12
Profenofos	4.68
Prophos	3.59
Triazophos	3.55

**Mobility in soil** No data available.

**Other adverse effects** The product contains volatile organic compounds which have a photochemical ozone creation potential.

### 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

#### US RCRA Hazardous Waste P List: Reference

Dimethoate (CAS 60-51-5)	P044
Methyl parathion (CAS 298-00-0)	P071
Parathion (CAS 56-38-2)	P089

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging**

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**14. Transport information****DOT**

<b>UN number</b>	UN1648
<b>UN proper shipping name</b>	Acetonitrile, solution (Acetonitrile RQ = 5014 LBS), MARINE POLLUTANT (Chlorfenvinphos, Dicrotophos)
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	3
<b>Packing group</b>	II
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Special provisions</b>	IB2, T7, TP2
<b>Packaging exceptions</b>	150
<b>Packaging non bulk</b>	202
<b>Packaging bulk</b>	242

**IATA**

<b>UN number</b>	UN1648
<b>UN proper shipping name</b>	Acetonitrile solution (Acetonitrile)
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Packing group</b>	II
<b>Environmental hazards</b>	Yes
<b>ERG Code</b>	3L
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed with restrictions.
<b>Cargo aircraft only</b>	Allowed with restrictions.

**IMDG**

<b>UN number</b>	UN1648
<b>UN proper shipping name</b>	ACETONITRILE SOLUTION (Acetonitrile), MARINE POLLUTANT
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Packing group</b>	II
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>EmS</b>	F-E, S-D
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

**DOT**

IATA; IMDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

## 15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Acetonitrile (CAS 75-05-8)	Listed.
Azinphos-methyl (CAS 86-50-0)	Listed.
Chlorpyrifos (CAS 2921-88-2)	Listed.
Coumaphos (CAS 56-72-4)	Listed.
Diazinon (CAS 333-41-5)	Listed.
Dichlorvos (CAS 62-73-7)	Listed.
Dimethoate (CAS 60-51-5)	Listed.
Ethion (CAS 563-12-2)	Listed.
Malathion (CAS 121-75-5)	Listed.
Methyl parathion (CAS 298-00-0)	Listed.
Mevinphos (CAS 7786-34-7)	Listed.
Parathion (CAS 56-38-2)	Listed.

### SARA 304 Emergency release notification

Azinphos-methyl (CAS 86-50-0)	1 LBS
Chlorfenvinphos (CAS 470-90-6)	500 LBS
Coumaphos (CAS 56-72-4)	10 LBS
Dichlorvos (CAS 62-73-7)	10 LBS
Dicrotophos (CAS 141-66-2)	100 LBS
Dimethoate (CAS 60-51-5)	10 LBS
EPN (CAS 2104-64-5)	100 LBS
Ethion (CAS 563-12-2)	10 LBS
Methidathion (CAS 950-37-8)	500 LBS
Methyl parathion (CAS 298-00-0)	100 LBS
Mevinphos (CAS 7786-34-7)	10 LBS
Monocrotophos (CAS 6923-22-4)	10 LBS
Parathion (CAS 56-38-2)	10 LBS
Prophos (CAS 13194-48-4)	1000 LBS
Triazophos (CAS 24017-47-8)	500 LBS

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
 Immediate Hazard - Yes  
 Delayed Hazard - No  
 Fire Hazard - Yes  
 Pressure Hazard - No  
 Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
Azinphos-methyl	86-50-0	1		10	10000
Chlorfenvinphos	470-90-6	500	500		
Coumaphos	56-72-4	10		100	10000
Dichlorvos	62-73-7	10	1000		
Dicrotophos	141-66-2	100	100		
Dimethoate	60-51-5	10		500	10000
EPN	2104-64-5	100		100	10000
Ethion	563-12-2	10	1000		
Methidathion	950-37-8	500		500	10000
Methyl parathion	298-00-0	100		100	10000
Mevinphos	7786-34-7	10	500		
Monocrotophos	6923-22-4	10		10	10000
Parathion	56-38-2	10	100		
Prophos	13194-48-4	1000	1000		
Triazophos	24017-47-8	500	500		

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Acetonitrile	75-05-8	99.73

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Acetonitrile (CAS 75-05-8)  
 Dichlorvos (CAS 62-73-7)  
 Parathion (CAS 56-38-2)

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

**US state regulations**

WARNING: This product contains a chemical known to the State of California to cause cancer.

**US - California Proposition 65 - CRT: Listed date/Carcinogenic substance**

Dichlorvos (CAS 62-73-7) Listed: January 1, 1989  
 Kresoxim-methyl (CAS 143390-89-0) Listed: February 3, 2012  
 Malathion (CAS 121-75-5) Listed: May 20, 2016  
 Mepanipyrim (CAS 110235-47-7) Listed: July 1, 2008  
 Parathion (CAS 56-38-2) Listed: May 20, 2016  
 Prophos (CAS 13194-48-4) Listed: February 27, 2001

**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

Acetonitrile (CAS 75-05-8)

**International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No



Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

**Issue date** 10-02-2020

**Version #** 01

**NFPA ratings**  
Health: 3  
Flammability: 3  
Instability: 0

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