

Response	If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. 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. Immediately call a poison center/doctor. Specific treatment is urgent (see this label). Rinse mouth. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Collect spillage.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	0.82% of the mixture consists of component(s) of unknown acute oral toxicity. 0.81% of the mixture consists of component(s) of unknown acute dermal toxicity. 99.85% of the mixture consists of component(s) of unknown acute inhalation toxicity. 99.8% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 99.8% 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	%
Methylene chloride	DICHLOROMETHANE; METHYLENE DICHLORIDE	75-09-2	90 - 100
Azinphos-methyl		86-50-0	0.01
Chlorpyrifos		2921-88-2	0.01
Coumaphos		56-72-4	0.01
Demeton S		126-75-0	0.01
Diazinon		333-41-5	0.01
Dichlorvos		62-73-7	0.01
Disulfoton		298-04-4	0.01
Fenchlorphos		299-84-3	0.01
Fensulfothion		115-90-2	0.01
Fenthion		55-38-9	0.01
Methyl parathion		298-00-0	0.01
Mevinphos		7786-34-7	0.01
Naled		300-76-5	0.01
Phorate		298-02-2	0.01
Prophos		13194-48-4	0.01
Prothiophos		34643-46-4	0.01
Sulprofos		35400-43-2	0.01
Tetrachlorvinphos		22248-79-9	0.01
Tributylphosphorotrithioite		150-50-5	0.01
Trichloronate		327-98-0	0.01

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

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 physician or poison control center immediately.
Skin contact	Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Eye contact	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.
Ingestion	Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe vapor. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
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Methods and materials for containment and cleaning up	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.
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Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
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7. Handling and storage

Precautions for safe handling	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapor. Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains.
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Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS).
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8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Components	Type	Value
Methylene chloride (CAS 75-09-2)	STEL	125 ppm
	TWA	25 ppm

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

Components	Type	Value
Azinphos-methyl (CAS 86-50-0)	PEL	0.2 mg/m3
Demeton S (CAS 126-75-0)	PEL	0.1 mg/m3

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

Components	Type	Value
Dichlorvos (CAS 62-73-7)	PEL	1 mg/m ³
Fenchlorphos (CAS 299-84-3)	PEL	15 mg/m ³
Mevinphos (CAS 7786-34-7)	PEL	0.1 mg/m ³
Naled (CAS 300-76-5)	PEL	3 mg/m ³

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Azinphos-methyl (CAS 86-50-0)	TWA	0.2 mg/m ³	Inhalable fraction and vapor.
Chlorpyrifos (CAS 2921-88-2)	TWA	0.1 mg/m ³	Inhalable fraction and vapor.
Coumaphos (CAS 56-72-4)	TWA	0.05 mg/m ³	Inhalable fraction and vapor.
Demeton S (CAS 126-75-0)	TWA	0.05 mg/m ³	Inhalable fraction and vapor.
Diazinon (CAS 333-41-5)	TWA	0.01 mg/m ³	Inhalable fraction and vapor.
Dichlorvos (CAS 62-73-7)	TWA	0.1 mg/m ³	Inhalable fraction and vapor.
Disulfoton (CAS 298-04-4)	TWA	0.05 mg/m ³	Inhalable fraction and vapor.
Fenchlorphos (CAS 299-84-3)	TWA	5 mg/m ³	Inhalable fraction and vapor.
Fensulfothion (CAS 115-90-2)	TWA	0.01 mg/m ³	Inhalable fraction and vapor.
Fenthion (CAS 55-38-9)	TWA	0.05 mg/m ³	Inhalable fraction and vapor.
Methyl parathion (CAS 298-00-0)	TWA	0.02 mg/m ³	Inhalable fraction and vapor.
Methylene chloride (CAS 75-09-2)	TWA	50 ppm	
Mevinphos (CAS 7786-34-7)	TWA	0.01 mg/m ³	Inhalable fraction and vapor.
Naled (CAS 300-76-5)	TWA	0.1 mg/m ³	Inhalable fraction and vapor.
Phorate (CAS 298-02-2)	TWA	0.05 mg/m ³	Inhalable fraction and vapor.
Sulprofos (CAS 35400-43-2)	TWA	0.1 mg/m ³	Inhalable fraction and vapor.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Azinphos-methyl (CAS 86-50-0)	TWA	0.2 mg/m ³
Chlorpyrifos (CAS 2921-88-2)	STEL	0.6 mg/m ³
	TWA	0.2 mg/m ³
Demeton S (CAS 126-75-0)	TWA	0.1 mg/m ³
Diazinon (CAS 333-41-5)	TWA	0.1 mg/m ³
Dichlorvos (CAS 62-73-7)	TWA	1 mg/m ³
Disulfoton (CAS 298-04-4)	TWA	0.1 mg/m ³
Fenchlorphos (CAS 299-84-3)	TWA	10 mg/m ³
Fensulfothion (CAS 115-90-2)	TWA	0.1 ppm
Methyl parathion (CAS 298-00-0)	TWA	0.2 mg/m ³
Mevinphos (CAS 7786-34-7)	STEL	0.3 mg/m ³
		0.03 ppm
	TWA	0.1 mg/m ³
		0.01 ppm
Naled (CAS 300-76-5)	TWA	3 mg/m ³

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Phorate (CAS 298-02-2)	STEL	0.2 mg/m3
	TWA	0.05 mg/m3
Sulprofos (CAS 35400-43-2)	TWA	1 mg/m3

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Methylene chloride (CAS 75-09-2)	0.3 mg/l	Dichloromethane	Urine	*

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

Exposure guidelines

US - California OELs: Skin designation

Azinphos-methyl (CAS 86-50-0)	Can be absorbed through the skin.
Chlorpyrifos (CAS 2921-88-2)	Can be absorbed through the skin.
Demeton S (CAS 126-75-0)	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.
Disulfoton (CAS 298-04-4)	Can be absorbed through the skin.
Fenthion (CAS 55-38-9)	Can be absorbed through the skin.
Methyl parathion (CAS 298-00-0)	Can be absorbed through the skin.
Mevinphos (CAS 7786-34-7)	Can be absorbed through the skin.
Naled (CAS 300-76-5)	Can be absorbed through the skin.
Phorate (CAS 298-02-2)	Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Azinphos-methyl (CAS 86-50-0)	Skin designation applies.
Chlorpyrifos (CAS 2921-88-2)	Skin designation applies.
Demeton S (CAS 126-75-0)	Skin designation applies.
Diazinon (CAS 333-41-5)	Skin designation applies.
Dichlorvos (CAS 62-73-7)	Skin designation applies.
Methyl parathion (CAS 298-00-0)	Skin designation applies.
Mevinphos (CAS 7786-34-7)	Skin designation applies.
Phorate (CAS 298-02-2)	Skin designation applies.

US - Tennessee OELs: Skin designation

Azinphos-methyl (CAS 86-50-0)	Can be absorbed through the skin.
Chlorpyrifos (CAS 2921-88-2)	Can be absorbed through the skin.
Demeton S (CAS 126-75-0)	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.
Disulfoton (CAS 298-04-4)	Can be absorbed through the skin.
Fenthion (CAS 55-38-9)	Can be absorbed through the skin.
Methyl parathion (CAS 298-00-0)	Can be absorbed through the skin.
Mevinphos (CAS 7786-34-7)	Can be absorbed through the skin.
Naled (CAS 300-76-5)	Can be absorbed through the skin.
Phorate (CAS 298-02-2)	Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

Azinphos-methyl (CAS 86-50-0)	Can be absorbed through the skin.
Chlorpyrifos (CAS 2921-88-2)	Can be absorbed through the skin.
Coumaphos (CAS 56-72-4)	Can be absorbed through the skin.
Demeton S (CAS 126-75-0)	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.
Disulfoton (CAS 298-04-4)	Can be absorbed through the skin.
Fensulfothion (CAS 115-90-2)	Can be absorbed through the skin.
Fenthion (CAS 55-38-9)	Can be absorbed through the skin.
Methyl parathion (CAS 298-00-0)	Can be absorbed through the skin.
Mevinphos (CAS 7786-34-7)	Can be absorbed through the skin.
Naled (CAS 300-76-5)	Can be absorbed through the skin.
Phorate (CAS 298-02-2)	Can be absorbed through the skin.
Sulprofos (CAS 35400-43-2)	Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Azinphos-methyl (CAS 86-50-0)	Can be absorbed through the skin.
Chlorpyrifos (CAS 2921-88-2)	Can be absorbed through the skin.
Demeton S (CAS 126-75-0)	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.
Disulfoton (CAS 298-04-4)	Can be absorbed through the skin.
Methyl parathion (CAS 298-00-0)	Can be absorbed through the skin.
Mevinphos (CAS 7786-34-7)	Can be absorbed through the skin.
Naled (CAS 300-76-5)	Can be absorbed through the skin.
Phorate (CAS 298-02-2)	Can be absorbed through the skin.

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

Azinphos-methyl (CAS 86-50-0)	Can be absorbed through the skin.
Demeton S (CAS 126-75-0)	Can be absorbed through the skin.
Dichlorvos (CAS 62-73-7)	Can be absorbed through the skin.
Mevinphos (CAS 7786-34-7)	Can be absorbed through the skin.

Appropriate engineering controls 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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear 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.

Respiratory protection

Wear positive pressure self-contained breathing apparatus (SCBA).

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using, do not eat, drink or smoke. 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 -139 °F (-95 °C) estimated

Initial boiling point and boiling range 103.55 °F (39.75 °C) estimated

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) 15.5 % estimated

Flammability limit - upper (%) 66.4 % estimated

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 579.97 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 1033 °F (556.11 °C) estimated

Decomposition temperature Not available.

Viscosity Not available.

Other information

Density	1.325356 g/cm ³ estimated
Percent volatile	99 % estimated
Specific gravity	1.33 estimated
VOC (Weight %)	99 % estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information**Information on likely routes of exposure**

Ingestion	Harmful if swallowed.
Inhalation	Fatal if inhaled. May cause damage to organs by inhalation.
Skin contact	Harmful in contact with skin. Causes skin irritation.
Eye contact	Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity Fatal if inhaled. Harmful if swallowed. Harmful in contact with skin.

Components	Species	Test Results
Azinphos-methyl (CAS 86-50-0)		
Acute		
<i>Dermal</i>		
LD50	Mouse	65 mg/kg
	Rabbit	> 2000 mg/kg
	Rat	220 mg/kg
<i>Inhalation</i>		
LC50	Rat	0.31 mg/l, 1 Hours 0.15 mg/l, 4 Hours
<i>Oral</i>		
LD50	Dog	> 10 mg/kg
	Guinea pig	80 mg/kg
	Mouse	15 mg/kg
	Rat	4.4 mg/kg
<i>Other</i>		
LD50	Rat	150 mg/kg, 24 Hours 4.9 mg/kg
Chlorpyrifos (CAS 2921-88-2)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	2000 mg/kg
	Rat	202 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 0.2 mg/l, 4 Hours
<i>Oral</i>		
LD50	Albino rat	179 - 252 mg/kg
	Goat	500 - 1000 mg/kg

Components	Species	Test Results
	Guinea pig	504 mg/kg
	Mouse	60 mg/kg
	Pigeon	19 - 38 mg/kg
	Rabbit	1000 mg/kg
	Rat	82 mg/kg
<i>Other</i>		
LD50	Mouse	192 mg/kg
Demeton S (CAS 126-75-0)		
Acute		
<i>Dermal</i>		
LD50	Rat	14 mg/kg
<i>Inhalation</i>		
LC50	Rat	0.175 mg/l, 1 Hours 0.047 mg/l, 4 Hours
<i>Oral</i>		
LD50	Rat	1.5 mg/kg
<i>Other</i>		
LD50	Guinea pig	5.5 mg/kg
	Mouse	1.85 mg/kg
	Rat	1.5 mg/kg
Diazinon (CAS 333-41-5)		
Acute		
<i>Dermal</i>		
LD50	Mouse	2750 mg/kg
	Rabbit	180 mg/kg
	Rat	180 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 2300 mg/kg
<i>Oral</i>		
LD50	Chicken	40.8 mg/kg
	Goose	14.7 mg/kg
	Gosling	2.8 mg/kg
	Guinea pig	240 - 320 mg/kg
	Mouse	17 mg/kg
	Rabbit	143 mg/kg
	Rat	66 mg/kg
	Turkey	6.8 mg/kg
<i>Other</i>		
LD50	Mouse	180 mg/kg
Dichlorvos (CAS 62-73-7)		
Acute		
<i>Dermal</i>		
LD50	Mouse	206 mg/kg
	Rabbit	107 mg/kg
	Rat	70.4 mg/kg
<i>Inhalation</i>		
LC50	Mouse	0.013 mg/l, 4 Hours
	Rat	0.015 mg/l, 4 Hours
<i>Oral</i>		
LD50	Dog	100 mg/kg
	Mouse	61 mg/kg
	Rabbit	10 mg/kg

Components	Species	Test Results
	Rat	17 mg/kg
<i>Other</i>		
LD50	Mouse	18 mg/kg
Disulfoton (CAS 298-04-4)		
Acute		
<i>Dermal</i>		
LD50	Rat	6 mg/kg
<i>Inhalation</i>		
LC50	Rat	0.015 mg/l, 4 Hours
<i>Oral</i>		
LD50	Rat	2 - 12 mg/kg
<i>Other</i>		
LD50	Rat	3.6 mg/kg
Fenchlorphos (CAS 299-84-3)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	1000 mg/kg
	Rat	2000 mg/kg
<i>Oral</i>		
LD50	Dog	> 500 mg/kg
	Rat	1250 mg/kg
Fensulfothion (CAS 115-90-2)		
Acute		
<i>Oral</i>		
LD50	Rat	1.8 mg/kg
Fenthion (CAS 55-38-9)		
Acute		
<i>Dermal</i>		
LD50	Rat	330 mg/kg
<i>Oral</i>		
LD50	Rabbit	150 mg/kg
	Rat	190 mg/kg
<i>Other</i>		
LD50	Rat	330 mg/kg
Methyl parathion (CAS 298-00-0)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	300 mg/kg
<i>Oral</i>		
LD50	Guinea pig	417 mg/kg
	Rat	14 mg/kg
<i>Other</i>		
LD50	Guinea pig	50 mg/kg
Methylene chloride (CAS 75-09-2)		
Acute		
<i>Dermal</i>		
LD50	Rat	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Guinea pig	11600 ppm, 6 Hours
		40.2 mg/l, 6 Hours
	Mouse	14400 ppm, 7 Hours
		51.5 mg/l, 2 Hours
		49.1 mg/l, 6 Hours

Components	Species	Test Results
		49 mg/l, 7 Hours
	Rat	2000 mg/l, 15 Minutes
		88 mg/l, 900 Days
		79 mg/l, 2 Hours
		52 mg/l, 6 Hours
LD50	Mouse	16000 ppm, 7 Hours
<i>Oral</i>		
LD50	Rat	1600 mg/kg
<i>Other</i>		
LD50	Mouse	437 mg/kg
Mevinphos (CAS 7786-34-7)		
Acute		
<i>Dermal</i>		
LD50	Rat	4.7 mg/kg
<i>Inhalation</i>		
LC50	Rat	14 mg/l, 1 Hours
<i>Oral</i>		
LD50	Mouse	4.3 mg/kg
<i>Other</i>		
LD50	Gerbil	0.45 mg/kg
	Rabbit	16 mg/kg
	Rat	1.5 mg/kg
Naled (CAS 300-76-5)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	1100 mg/kg
	Rat	800 mg/kg
<i>Inhalation</i>		
LD50	Mouse	156 mg/kg
<i>Oral</i>		
LD50	Chicken	59 mg/kg
	Mouse	360 mg/kg
	Rat	250 mg/kg
Phorate (CAS 298-02-2)		
Acute		
<i>Dermal</i>		
LD50	Guinea pig	20 mg/kg
	Rat	2.5 mg/kg
<i>Oral</i>		
LD50	Mouse	2.25 mg/kg
	Rat	1.1 mg/kg
<i>Other</i>		
LD50	Rabbit	116 mg/kg
	Rat	93 - 245 mg/kg
Prophos (CAS 13194-48-4)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	8.5 mg/kg
	Rat	22.4 mg/kg
<i>Oral</i>		
LD50	Domestic hen	5.62 mg/kg
	Rabbit	55 mg/kg

Components	Species	Test Results
	Rat	33 mg/kg
<i>Other</i>		
LD50	Rabbit	26 mg/kg
	Rat	60 mg/kg
Sulprofos (CAS 35400-43-2)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	820 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 4.1 mg/l, 4 Hours
<i>Oral</i>		
LD50	Hen	65 mg/kg
	Mouse	1600 mg/kg
	Rat	176 mg/kg
<i>Other</i>		
LD50	Rat	1064 mg/kg
Tetrachlorvinphos (CAS 22248-79-9)		
Acute		
<i>Dermal</i>		
LD50	Mouse	> 7500 mg/kg
	Rat	> 10000 mg/kg
<i>Other</i>		
LD50	Mouse	1170 mg/kg
	Rat	1160 mg/kg
Tributylphosphorotrithioite (CAS 150-50-5)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	4600 mg/kg
	Rat	615 mg/kg
<i>Oral</i>		
LD50	Rat	910 mg/kg
<i>Other</i>		
LD50	Rabbit	5 g/kg
Trichloronate (CAS 327-98-0)		
Acute		
<i>Oral</i>		
LD50	Chicken	45 mg/kg
	Rabbit	25 mg/kg
	Rat	16 mg/kg
<i>Other</i>		
LD50	Rat	135 mg/kg

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

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization

ACGIH sensitization

Azinphos-methyl (CAS 86-50-0)	Sensitizer.
Dichlorvos (CAS 62-73-7)	Sensitizer.
Naled (CAS 300-76-5)	Sensitizer.

Respiratory sensitization Not available.

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 Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Dichlorvos (CAS 62-73-7)	2B Possibly carcinogenic to humans.
Methyl parathion (CAS 298-00-0)	3 Not classifiable as to carcinogenicity to humans.
Methylene chloride (CAS 75-09-2)	2B Possibly carcinogenic to humans.
Tetrachlorvinphos (CAS 22248-79-9)	3 Not classifiable as to carcinogenicity to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

Methylene chloride (CAS 75-09-2)	Reasonably Anticipated to be a Human Carcinogen.
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US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Methylene chloride (CAS 75-09-2)	Cancer
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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 May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects. May cause damage to organs through prolonged or repeated exposure.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Components		Species	Test Results
Azinphos-methyl (CAS 86-50-0)			
Aquatic			
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
Chlorpyrifos (CAS 2921-88-2)			
Aquatic			
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
Coumaphos (CAS 56-72-4)			
Aquatic			
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
Demeton S (CAS 126-75-0)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia pulex</i>)	0.0104 - 0.0187 mg/l, 48 hours
Fish	LC50	Cutthroat trout (<i>Oncorhynchus clarki</i>)	0.1 - 1 mg/l, 96 hours
Diazinon (CAS 333-41-5)			
Aquatic			
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 0.066 - 0.102 mg/l, 96 hours
Dichlorvos (CAS 62-73-7)			
Aquatic			
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
Disulfoton (CAS 298-04-4)			
Aquatic			
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>)	0.064 mg/l, 96 hours
Fenchlorphos (CAS 299-84-3)			
Aquatic			
Crustacea	EC50	Brown shrimp (<i>Penaeus aztecus</i>)	0.0052 mg/l, 48 hours

Components		Species	Test Results
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)	0.305 mg/l, 96 hours
Fensulfothion (CAS 115-90-2)			
Aquatic			
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>)	0.009 - 0.1 mg/l, 96 hours
Fenthion (CAS 55-38-9)			
Aquatic			
Crustacea	EC50	Water flea (<i>Simocephalus serrulatus</i>)	0.0004 - 0.0009 mg/l, 48 hours
Fish	LC50	Largemouth bass (<i>Micropterus salmoides</i>)	0.736 - 2.01 mg/l, 96 hours
Methyl parathion (CAS 298-00-0)			
Aquatic			
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
Methylene chloride (CAS 75-09-2)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	1250 mg/l, 48 hours
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>)	140.8 - 277.8 mg/l, 96 hours
Mevinphos (CAS 7786-34-7)			
Aquatic			
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
Naled (CAS 300-76-5)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia pulex</i>)	0.0002 - 0.0008 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>)	0.083 - 0.208 mg/l, 96 hours
Phorate (CAS 298-02-2)			
Aquatic			
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)	0.012 - 0.031 mg/l, 48 hours
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>)	0.002 - 0.0026 mg/l, 96 hours
Prophos (CAS 13194-48-4)			
Aquatic			
Fish	LC50	Carp (<i>Cyprinus carpio</i>)	0.47 - 0.88 mg/l, 96 hours
Prothiophos (CAS 34643-46-4)			
Aquatic			
Fish	LC50	Goldfish (<i>Carassius auratus</i>)	6 - 20 mg/l, 96 hours
Tetrachlorvinphos (CAS 22248-79-9)			
Aquatic			
Crustacea	EC50	Northern pink shrimp (<i>Penaeus duorarum</i>)	0.28 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>)	0.332 - 0.557 mg/l, 96 hours
Tributylphosphorotrithioite (CAS 150-50-5)			
Aquatic			
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>)	1.3 - 4 mg/l, 96 hours
Trichloronate (CAS 327-98-0)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>)	0.11 - 0.18 mg/l, 96 hours

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

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)	
Azinphos-methyl	2.75
Chlorpyrifos	5.27
Coumaphos	4.13
Diazinon	3.81
Dichlorvos	1.43
Disulfoton	4.02
Fenclorphos	5.07
Fensulfothion	2.23
Fenthion	4.091
Methyl parathion	2.86
Methylene chloride	1.25
Mevinphos	0.13
Naled	1.38
Phorate	3.56
Prophos	3.59
Sulprofos	5.48
Tetrachlorvinphos	3.53
Trichloronate	5.23

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. 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

Disulfoton (CAS 298-04-4)	P039
Methyl parathion (CAS 298-00-0)	P071
Phorate (CAS 298-02-2)	P094

US RCRA Hazardous Waste U List: Reference

Methylene chloride (CAS 75-09-2)	U080
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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 Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

UN number	UN1593
UN proper shipping name	Dichloromethane, solution, MARINE POLLUTANT
Transport hazard class(es)	
Class	6.1(PGIII)
Subsidiary risk	-
Label(s)	6.1
Packing group	III
Environmental hazards	
Marine pollutant	Yes
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Special provisions	IB3, IP8, N36, T7, TP2
Packaging exceptions	153
Packaging non bulk	203
Packaging bulk	241

IATA

UN number	UN1593
UN proper shipping name	Dichloromethane solution
Transport hazard class(es)	
Class	6.1(PGIII)

Subsidiary risk	-
Packing group	III
Environmental hazards	No.
ERG Code	6L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.

IMDG

UN number	UN1593
UN proper shipping name	DICHLOROMETHANE SOLUTION, MARINE POLLUTANT
Transport hazard class(es)	
Class	6.1(PGIII)
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-A
Special precautions for user	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 available.

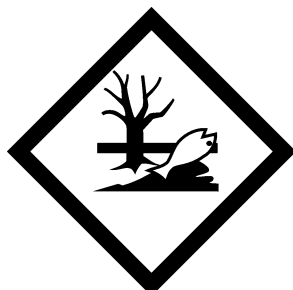
DOT



IATA; IMDG



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.
One or more components are not listed on TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

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.
Disulfoton (CAS 298-04-4)	Listed.
Methyl parathion (CAS 298-00-0)	Listed.
Methylene chloride (CAS 75-09-2)	Listed.
Mevinphos (CAS 7786-34-7)	Listed.
Naled (CAS 300-76-5)	Listed.
Phorate (CAS 298-02-2)	Listed.

SARA 304 Emergency release notification

Azinphos-methyl (CAS 86-50-0)	1 LBS
Coumaphos (CAS 56-72-4)	10 LBS
Demeton S (CAS 126-75-0)	500 LBS
Dichlorvos (CAS 62-73-7)	10 LBS
Disulfoton (CAS 298-04-4)	1 LBS
Fensulfothion (CAS 115-90-2)	500 LBS
Methyl parathion (CAS 298-00-0)	100 LBS
Mevinphos (CAS 7786-34-7)	10 LBS
Phorate (CAS 298-02-2)	10 LBS
Prophos (CAS 13194-48-4)	1000 LBS
Trichloronate (CAS 327-98-0)	500 LBS

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Methylene chloride (CAS 75-09-2)	Cancer Heart Central nervous system Liver Skin irritation Eye irritation
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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
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SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Azinphos-methyl	86-50-0	1		10 lbs	10000 lbs
Coumaphos	56-72-4	10		100 lbs	10000 lbs
Demeton S	126-75-0	500	500 lbs		
Dichlorvos	62-73-7	10	1000 lbs		
Disulfoton	298-04-4	1	500 lbs		
Fensulfothion	115-90-2	500	500 lbs		
Methyl parathion	298-00-0	100		100 lbs	10000 lbs
Mevinphos	7786-34-7	10	500 lbs		
Phorate	298-02-2	10	10 lbs		
Prophos	13194-48-4	1000	1000 lbs		
Trichloronate	327-98-0	500	500 lbs		

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Methylene chloride	75-09-2	90 - 100

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

- Dichlorvos (CAS 62-73-7)
- Methylene chloride (CAS 75-09-2)

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

US. Massachusetts RTK - Substance List

Azinphos-methyl (CAS 86-50-0)
Chlorpyrifos (CAS 2921-88-2)
Coumaphos (CAS 56-72-4)
Demeton S (CAS 126-75-0)
Diazinon (CAS 333-41-5)
Dichlorvos (CAS 62-73-7)
Disulfoton (CAS 298-04-4)
Fenchlorphos (CAS 299-84-3)
Fensulfothion (CAS 115-90-2)
Fenthion (CAS 55-38-9)
Methyl parathion (CAS 298-00-0)
Methylene chloride (CAS 75-09-2)
Mevinphos (CAS 7786-34-7)
Naled (CAS 300-76-5)
Phorate (CAS 298-02-2)
Prophos (CAS 13194-48-4)
Sulprofos (CAS 35400-43-2)
Tetrachlorvinphos (CAS 22248-79-9)
Trichloronate (CAS 327-98-0)

US. New Jersey Worker and Community Right-to-Know Act

Azinphos-methyl (CAS 86-50-0)	10 LBS
Coumaphos (CAS 56-72-4)	100 LBS
Demeton S (CAS 126-75-0)	500 LBS
Diazinon (CAS 333-41-5)	500 LBS
Dichlorvos (CAS 62-73-7)	500 LBS
Disulfoton (CAS 298-04-4)	500 LBS
Fensulfothion (CAS 115-90-2)	500 LBS
Fenthion (CAS 55-38-9)	500 LBS
Methyl parathion (CAS 298-00-0)	100 LBS
Methylene chloride (CAS 75-09-2)	500 LBS
Mevinphos (CAS 7786-34-7)	500 LBS
Naled (CAS 300-76-5)	500 LBS
Phorate (CAS 298-02-2)	10 LBS
Prophos (CAS 13194-48-4)	500 LBS
Sulprofos (CAS 35400-43-2)	500 LBS
Tetrachlorvinphos (CAS 22248-79-9)	500 LBS
Tributylphosphorotrithioite (CAS 150-50-5)	500 LBS
Trichloronate (CAS 327-98-0)	500 LBS

US. Pennsylvania RTK - Hazardous Substances

Azinphos-methyl (CAS 86-50-0)
Chlorpyrifos (CAS 2921-88-2)
Coumaphos (CAS 56-72-4)
Demeton S (CAS 126-75-0)
Diazinon (CAS 333-41-5)
Dichlorvos (CAS 62-73-7)
Disulfoton (CAS 298-04-4)
Fenchlorphos (CAS 299-84-3)
Fensulfothion (CAS 115-90-2)
Fenthion (CAS 55-38-9)
Methyl parathion (CAS 298-00-0)
Methylene chloride (CAS 75-09-2)
Mevinphos (CAS 7786-34-7)
Naled (CAS 300-76-5)
Phorate (CAS 298-02-2)
Prophos (CAS 13194-48-4)
Sulprofos (CAS 35400-43-2)
Tetrachlorvinphos (CAS 22248-79-9)
Trichloronate (CAS 327-98-0)

US. Rhode Island RTK

Azinphos-methyl (CAS 86-50-0)
Chlorpyrifos (CAS 2921-88-2)
Coumaphos (CAS 56-72-4)
Demeton S (CAS 126-75-0)
Diazinon (CAS 333-41-5)
Dichlorvos (CAS 62-73-7)
Disulfoton (CAS 298-04-4)
Fensulfothion (CAS 115-90-2)

Fenthion (CAS 55-38-9)
 Methyl parathion (CAS 298-00-0)
 Methylene chloride (CAS 75-09-2)
 Mevinphos (CAS 7786-34-7)
 Naled (CAS 300-76-5)
 Phorate (CAS 298-02-2)
 Prophos (CAS 13194-48-4)
 Sulprofos (CAS 35400-43-2)
 Tetrachlorvinphos (CAS 22248-79-9)
 Tributylphosphorotrithioite (CAS 150-50-5)
 Trichloronate (CAS 327-98-0)

US. California Proposition 65

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
Methylene chloride (CAS 75-09-2)	Listed: April 1, 1988
Prophos (CAS 13194-48-4)	Listed: February 27, 2001

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)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
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 09-06-2014
Version # 01
NFPA ratings Health: 2
 Flammability: 1
 Instability: 0

Disclaimer

The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.

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