SAFETY DATA SHEET

1. Identification

Product identifier	Colorado Pesticide Standa	ards Mixture 4	
Other means of identification			
Item	M-COLCAN4A1		
Recommended use	For Laboratory Use Only		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier/	Distributor information		
Manufacturer			
Company name	Chem Service, Inc.		
Address	660 Tower Lane		
	West Chester, PA 19380		
	United States		
Telephone	Toll Free	800-452-9994	
NA /	Direct	610-692-3026	
Website E-mail	www.chemservice.com		
	info@chemservice.com	000 404 0000	
Emergency phone number	Chemtrec US Chemtrec outside US	800-424-9300 +1 703-527-3887	,
	Chemiliec outside 05	+1703-527-3007	
2. Hazard(s) identification			
Physical hazards	Flammable liquids		Category 2
Health hazards	Acute toxicity, oral		Category 3
	Acute toxicity, dermal		Category 3
	Acute toxicity, inhalation		Category 3
	Serious eye damage/eye irr	itation	Category 2A
			0 1 1

Environmental hazardsSerious eye damage/eye irritationCategory 2AHazardous to the aquatic environment, acute
hazardCategory 1
hazardHazardous to the aquatic environment,
long-term hazardCategory 1
category 1OSHA defined hazardsNot classified.

Label elements



Signal word Hazard statement

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.

Precautionary statement Prevention

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.

Response	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.
Storage	Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in refrigerator (0 - 5 °C).
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	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.
Supplemental information	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	,
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Acetonitrile Acephate Chlorpyrifos	75-05-8 30560-19-1 2921-88-2 56-72-4	99.8 0.01 0.01 0.01
Chlorpyrifos	2921-88-2 56-72-4	0.01
	56-72-4	
		0.01
Coumaphos		0.01
Diazinon	333-41-5	0.01
Dichlorvos	62-73-7	0.01
Dimethoate	60-51-5	0.01
Etofenprox	80844-07-1	0.01
Etoxazole	153233-91-1	0.01
Etridiazole	2593-15-9	0.01
Fensulfothion	115-90-2	0.01
Fenthion	55-38-9	0.01
Malathion	121-75-5	0.01
Methyl parathion	298-00-0	0.01
Mevinphos	7786-34-7	0.01
Naled	300-76-5	0.01
Phosmet	732-11-6	0.01
Prophos	13194-48-4	0.01
Spiroxamine	118134-30-8	0.01
Tetrachlorvinphos	22248-79-9	0.01
Thiophanate-methyl	23564-05-8	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.
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	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.

Most important symptoms/effects, acute and delayed	Convulsions. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.
Indication of immediate medical attention and special treatment needed	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.
General information	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	
Suitable extinguishing media	Water fog. Alcohol resistant foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	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.
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	In case of fire and/or explosion do not breathe fumes. 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	Highly flammable liquid and vapor.
6. Accidental release mea	sures

Personal precautions, protective equipment and emergency procedures	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.
Methods and materials for containment and cleaning up	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.
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 in freezer (<0 °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 CFF)	R 1910.1000)
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Components	Туре	Value	Form
Acetonitrile (CAS 75-05-8)	PEL	70 mg/m3	
		40 ppm	
Dichlorvos (CAS 62-73-7)	PEL	1 mg/m3	
Malathion (CAS 121-75-5)	PEL	15 mg/m3	Total dust.
Mevinphos (CAS 7786-34-7)	PEL	0.1 mg/m3	
Naled (CAS 300-76-5)	PEL	3 mg/m3	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	Form
Acetonitrile (CAS 75-05-8)	TWA	20 ppm	
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.
Fensulfothion (CAS 115-90-2)	TWA	0.01 mg/m3	Inhalable fraction and vapor.
Fenthion (CAS 55-38-9)	TWA	0.05 mg/m3	Inhalable fraction and vapor.
Malathion (CAS 121-75-5)	TWA	1 mg/m3	Inhalable fraction and vapor.

US. ACGIH Threshold Lin Components	nt values	Туре		v	alue	Form
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.
Naled (CAS 300-76-5)		TWA		0	.1 mg/m3	Inhalable fraction and vapor.
US. NIOSH: Pocket Guide Components	to Chemical H	lazards Type		v	/alue	
Acetonitrile (CAS 75-05-8)		TWA		3	4 mg/m3	
				2	0 ppm	
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	
Fensulfothion (CAS 115-90-2)		TWA		0	.1 mg/m3	
Malathion (CAS 121-75-5)		TWA		1	0 mg/m3	
Methyl parathion (CAS 298-00-0)		TWA		0	.2 mg/m3	
Mevinphos (CAS 7786-34-7)		STEL		0	.3 mg/m3	
				0	.03 ppm	
		TWA		0	.1 mg/m3	
				0	.01 ppm	
Naled (CAS 300-76-5)		TWA		3	mg/m3	
ogical limit values						
ACGIH Biological Exposu					_	
Components	Value		Determinant	Specimen	Sampling	Time
Chlorpyrifos (CAS 2921-88-2)	70 %		Acetylcholinest erase activity	Reduction from individual baseline activity in red blood cells	*	
	60 %		Butyrylcholines terase activity	Serum or Plasma	*	
Coumaphos (CAS 56-72-4)	70 %		Acetylcholinest erase activity	Reduction from individual baseline activity in red blood cells	*	
	60 %		Butyrylcholines terase activity	Serum or Plasma	*	
Diazinon (CAS 333-41-5)	70 %		Acetylcholinest erase activity	Reduction from individual baseline activity in	*	

ACGIH Biological Exposu Components	ire Indices Value	Determinant	Specimen	Sampling Time
	60 %	Butyrylcholines terase activity	Serum or Plasma	*
Dichlorvos (CAS 62-73-7)	70 %	Acetylcholinest erase activity	Reduction from individual baseline activity in red blood cells	*
	60 %	Butyrylcholines terase activity	Serum or Plasma	*
Fensulfothion (CAS 115-90-2)	70 %	Acetylcholinest erase activity	Reduction from individual baseline activity in red blood cells	*
	60 %	Butyrylcholines terase activity	Serum or Plasma	*
Fenthion (CAS 55-38-9)	70 %	Acetylcholinest erase activity	Reduction from individual baseline activity in red blood cells	*
	60 %	Butyrylcholines terase activity	Serum or Plasma	*
Malathion (CAS 121-75-5)	70 %	Acetylcholinest erase activity	Reduction from individual baseline activity in red blood cells	*
	60 %	Butyrylcholines terase activity	Serum or Plasma	*
Mevinphos (CAS 7786-34-7)	70 %	Acetylcholinest erase activity	Reduction from individual baseline activity in red blood cells	*
	60 %	Butyrylcholines terase activity	Serum or Plasma	*

* - 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.
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.
Fenthion (CAS 55-38-9)	Can be absorbed through the skin.
Malathion (CAS 121-75-5)	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.

US - Minnesota Haz Subs: Sł	kin designation applies			
Acetonitrile (CAS 75-05-8)		Skin designation applies.		
Chlorpyrifos (CAS 2921-88-2)		Skin designation applies.		
Diazinon (CAS 333-41-5)	/	Skin designation applies.		
Dichlorvos (CAS 62-73-7)		Skin designation applies.		
Malathion (CAS 121-75-5)		Skin designation applies.		
Methyl parathion (CAS 29		Skin designation applies.		
Methy paratilion (CAS 290-00-0) Mevinphos (CAS 7786-34-7)				
		Skin designation applies.		
US - Tennessee OELs: Skin o	-			
Chlorpyrifos (CAS 2921-88	8-2)	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.		
Fenthion (CAS 55-38-9)		Can be absorbed through the skin.		
Malathion (CAS 121-75-5)		Can be absorbed through the skin.		
Methyl parathion (CAS 29	8-00-0)	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.		
US ACGIH Threshold Limit V	alues: Skin designation	Ĵ		
Acetonitrile (CAS 75-05-8))	Danger of cutaneous absorption		
Chlorpyrifos (CAS 2921-88	8-2)	Danger of cutaneous absorption		
Coumaphos (CAS 56-72-4	4) ´	Danger of cutaneous absorption		
Diazinon (CAS 333-41-5)		Danger of cutaneous absorption		
Dichlorvos (CAS 62-73-7)		Danger of cutaneous absorption		
Fensulfothion (CAS 115-9		Danger of cutaneous absorption		
Fenthion (CAS 55-38-9))	Danger of cutaneous absorption		
Malathion (CAS 121-75-5)		Danger of cutaneous absorption		
Methyl parathion (CAS 29		Danger of cutaneous absorption		
Mevinphos (CAS 7786-34-		Danger of cutaneous absorption		
Naled (CAS 300-76-5)	-	Danger of cutaneous absorption		
	hemical Hazards: Skin desigr	-		
	-			
Chlorpyrifos (CAS 2921-88	8-2)	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.		
Malathion (CAS 121-75-5)		Can be absorbed through the skin.		
Methyl parathion (CAS 29		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.		
US. OSHA Table Z-1 Limits for	or Air Contaminants (29 CFR 1	910.1000)		
Dichlorvos (CAS 62-73-7)		Can be absorbed through the skin.		
Malathion (CAS 121-75-5)		Can be absorbed through the skin.		
Mevinphos (CAS 7786-34		Can be absorbed through the skin.		
Appropriate engineering	,	cal exhaust ventilation. Good general ventilation (typically 10 air		
controls	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.			
	c ,			
Individual protection measures, s Eye/face protection	Wear safety glasses with side s			
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 prote	ective clothing, when necessary.		
General hygiene considerations	hygiene measures, such as wa	ep away from food and drink. Always observe good personal shing after handling the material and before eating, drinking, and/or clothing and protective equipment to remove contaminants.		

9. Physical and chemical properties

5. Fliysical and chemical	properties
Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	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 exp	losive limits
Explosive limit - lower (%)	3 % estimated
Explosive limit - upper (%)	16 % estimated
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	0.78805 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Flammable IB estimated
Oxidizing properties	Not oxidizing.
Percent volatile	99.8 % estimated
Specific gravity	0.79 estimated
VOC	99.8 % estimated
10. Stability and reactivity	

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.Chemical stabilityMaterial is stable under normal conditions.Possibility of hazardous
reactionsHazardous polymerization does not occur.Conditions to avoidAvoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the
flash point. Contact with incompatible materials.Incompatible materialsStrong oxidizing agents.Hazardous decomposition
productsNo hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Toxic if inhaled.	
Skin contact	Toxic in contact with skin.	
Eye contact	Causes serious eye irritation.	

Ingestion	Toxic if swallowed.
Symptoms related to the physical, chemical and	Convulsions. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

toxicological characteristics

Acute toxicity

Information on toxicological effects

Toxic if inhaled. Toxic in contact with skin. Toxic if swallowed.

Acute toxicity	TOXIC II IIIIIaled. TOXIC III CONtact	
Components	Species	Test Results
Acephate (CAS 30560-19-1)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	866 mg/kg
Chlorpyrifos (CAS 2921-88-2))	
<u>Acute</u>		
Dermal		
LD50	Rat	202 mg/kg
Inhalation		
LC50	Rat	> 36 mg/m3, 4 Hours
Oral		
LD50	Rat	82 mg/kg
Coumaphos (CAS 56-72-4)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	500 mg/kg
Oral		
LD50	Rat	13 mg/kg
Diazinon (CAS 333-41-5)		
<u>Acute</u>		
Dermal		
LD50	Rat	180 mg/kg
Inhalation		
LC50	Rat	> 2330 mg/m3, 4 Hours
Oral		
LD50	Rat	76 mg/kg
Dichlorvos (CAS 62-73-7)		
<u>Acute</u>		
Dermal		
LD50	Rat	75 mg/kg
Inhalation		
LC50	Rat	15 mg/m3, 4 Hours
Oral		
LD50	Rat	17 mg/kg
Dimethoate (CAS 60-51-5)		
<u>Acute</u>		
Dermal	_	
LD50	Rat	> 800 mg/kg
Inhalation		
LC50	Rat	> 1.553 mg/l, 4 Hours

Components	Species	Test Results
Etofenprox (CAS 80844-07-1)		
Acute		
Inhalation		
LC50	-	5.9 mg/l, 4 Hours
Oral		
LD50	-	42880 mg/kg
Etoxazole (CAS 153233-91-1)		
<u>Acute</u>		
Dermal	- /	
LD50	Rat	> 2000 mg/kg
Oral		· · · ·
LD50	Rat	4274 mg/kg
Etridiazole (CAS 2593-15-9)		
<u>Acute</u>		
Dermal	Dabbit	1700 malka
LD50	Rabbit	1700 mg/kg
Inhalation		
LC50	-	5.7 mg/l, 4 Hours
Oral	D-4	
LD50	Rat	1028 mg/kg
Fensulfothion (CAS 115-90-2)		
<u>Acute</u>		
Inhalation LC50	Rat	29.5 mg/m3, 4 Hours
	Rat	29.5 mg/m3, 4 Hours
Oral LD50	Rat	1.8 mg/kg
	Rat	1:8 mg/kg
Fenthion (CAS 55-38-9)		
<u>Acute</u> Dermal		
LD50	Rat	330 - 500 mg/kg
	Nat	550 - 500 mg/kg
Oral LD50	Rat	190 - 315 mg/kg
Malathion (CAS 121-75-5)		ioo - o to mg/kg
Acute		
Dermal		
LD50	Rabbit	2460 - 6150 mg/kg
Oral		
LD50	Rat	290 mg/kg
Methyl parathion (CAS 298-00-0)		ee
Acute		
Inhalation		
LC50	_	34 mg/m3, 4 Hours
Oral		
LD50	Rat	14 mg/kg
Mevinphos (CAS 7786-34-7)		
<u>Acute</u>		
Dermal		
LD50	Rat	4.7 mg/kg
Oral		
LD50	Mouse	4.3 - 6.8 mg/kg

Components	Species	Test Results	
Naled (CAS 300-76-5)			
Acute			
Dermal			
LD50	Rat	800 mg/kg	
Oral			
LD50	Rat	250 mg/kg	
Phosmet (CAS 732-11-6)			
<u>Acute</u>			
Dermal			
LD50	Rabbit	> 5000 mg/kg	
Inhalation			
LC50	Rat	2.76 mg/l, 1 Hours	
Oral			
LD50	Rat	26 mg/kg	
Prophos (CAS 13194-48-4)			
Acute			
Dermal			
LD50	Rabbit	8.5 mg/kg	
Oral			
LD50	Rat	33 mg/kg	
Thiophanate-methyl (CAS 23564-	-05-8)		
Acute			
Dermal			
LD50	Rabbit	> 2000 mg/kg	
Inhalation			
LC50	Rat	1.7 mg/l, 4 Hours	
Oral			
LD50	Rat	6640 mg/kg	
* Estimates for product may	be based on additional compon		
Skin corrosion/irritation	Prolonged skin contact may		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitizatio	n		
ACGIH sensitization			
Dichlorvos (DDVP), inha (CAS 62-73-7)		Dermal sensitization	
Naled, inhalable fraction	and vapor (CAS 300-76-5)	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 carcino	ogenicity to humans.	
IARC Monographs. Overall	Evaluation of Carcinogenicit	у	
Diazinon (CAS 333-41-5			
Dichlorvos (CAS 62-73-	S 62-73-7) 2B Possibly carcinogenic to humans.		
Malathion (CAS 121-75-			
Methyl parathion (CAS 2 Tetrachlorvinphos (CAS		3 Not classifiable as to carcinogenicity to humans. 2B Possibly carcinogenic to humans.	
	ed Substances (29 CFR 1910.		
Not listed.			
US. National Toxicology Pr	ogram (NTP) Report on Carci	nogens	
Not listed.			
Material name: Colorado Pesticide S	Standards Mixture 4	S	SDS U

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

otoxicity Very toxic to aquatic life with long lasting effects.			
Components		Species	Test Results
Acephate (CAS 30560-	-19-1)		
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	> 50 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	>= 1.09 - <= 1.77 mg/l, 96 hours
Acetonitrile (CAS 75-08	5-8)		
Aquatic			
Acute			
Fish	LC50	Fathead minnow (Pimephales promelas)	> 100 mg/l, 96 hours
Chlorpyrifos (CAS 292	1-88-2)		
Aquatic			
Acute	F.050		
Crustacea	EC50	Scud (Gammarus pulex)	>= 0.0002 - <= 0.0005 mg/l, 48 hou
Fish	LC50	Atlantic silverside (Menidia menidia)	>= 0.0004 - <= 0.0006 mg/l, 96 hou
Coumaphos (CAS 56-7	72-4)		
Aquatic			
Acute	E C E O	Water flog (Simogenhalus corrulatus)	0.0001 mg/ 48 hours
Crustacea	EC50	Water flea (Simocephalus serrulatus)	0.0001 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	0.18 mg/l, 96 hours
Diazinon (CAS 333-41-	-5)		
Aquatic Acute			
Crustacea	EC50	Water flea (Daphnia pulex)	>= 0.0006 - <= 0.0011 mg/l, 48 hou
Fish	LC50	Bluegill (Lepomis macrochirus)	0.022 mg/l, 96 hours
1 1311	2000		0.022 mg/l, 96 hours
Dichlorvos (CAS 62-73	7)		0.022 mg/l, 30 hours
Aquatic	-7)		
Acute			
Crustacea	EC50	Water flea (Daphnia pulex)	>= 0 - <= 0.0001 mg/l, 48 hours
Fish	LC50	Carp (Cyprinus carpio)	0.0015 mg/l
Dimethoate (CAS 60-5			- 0
Aquatic	/		
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	>= 0.48 - <= 0.66 mg/l, 48 hours
Fish	LC50	Walking catfish (Clarias batrachus)	0.065 mg/l, 96 hours
Etofenprox (CAS 8084	4-07-1)		
Aquatic	-		
Acute			
Fish	LC50	Mozambique tilapia (Tilapia mossambica)	>= 1.49 - <= 2.02 mg/l, 96 hours

Material name: Colorado Pesticide Standards Mixture 4 M-COLCAN4A1 Version #: 01 Issue date: 04-04-2023

Components		Species	Test Results
Fensulfothion (CAS 115-90)-2)		
Aquatic			
Acute	1.050		
Fish	LC50	Bluegill (Lepomis macrochirus)	>= 0.009 - <= 0.1 mg/l, 96 hours
Fenthion (CAS 55-38-9)			
Aquatic			
<i>Acute</i> Crustacea	EC50	Water flea (Simocephalus serrulatus)	>= 0.0004 - <= 0.0009 mg/l, 48 hours
Fish	LC50	Carp (Cyprinus carpio)	>= 0.532 - <= 2.55 mg/l, 96 hours
Malathion (CAS 121-75-5)			2 0.332 - 2.33 mg/l, 30 hours
Aquatic			
<i>Acute</i> Crustacea	EC50	Water flea (Simocephalus serrulatus)	>= 0.0004 - <= 0.0008 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	>= 0.016 - <= 0.025 mg/l, 96 hours
		Bidegin (Leponis macrochilds)	~= 0.010 - <= 0.023 mg/l, 90 hours
Methyl parathion (CAS 298 Aquatic	5-00-0)		
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	>= 0.0001 - <= 0.0002 mg/l, 48 hours
Fish	LC50	Cutthroat trout (Oncorhynchus clarki)	>= 1.39 - <= 2.47 mg/l, 96 hours
Mevinphos (CAS 7786-34-	7)		
Aquatic Acute	. ,		
Crustacea	EC50	Water flea (Daphnia pulex)	>= 0.0001 - <= 0.0002 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.012 mg/l, 96 hours
Naled (CAS 300-76-5)			
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia pulex)	>= 0.0002 - <= 0.0008 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	>= 0.083 - <= 0.208 mg/l, 96 hours
Phosmet (CAS 732-11-6)			
Aquatic			
Acute			
Crustacea	EC50	Water flea (Daphnia magna)	>= 0.0042 - <= 0.0084 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	>= 0.05 - <= 0.1 mg/l, 96 hours
Prophos (CAS 13194-48-4)		
Aquatic			
Acute	1.050		
Fish	LC50	Carp (Cyprinus carpio)	>= 0.47 - <= 0.88 mg/l, 96 hours
Tetrachlorvinphos (CAS 22	2248-79-9)		
Aquatic Crustacea	EC50	Northern pink shrimp (Penaeus	0.28 mg/l, 48 hours
CIUSIACEA	E030	duorarum)	0.20 119/1, 40 110015
Acute			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	>= 0.332 - <= 0.557 mg/l, 96 hours

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

Persistence and degradability

Bioaccumulative potential

Acephate	-0.85
Acetonitrile	-0.34
Chlorpyrifos	4.96
Coumaphos	4.13
Diazinon	3.81
Dichlorvos	1.43
Dimethoate	0.78
Etridiazole	3.37
Fensulfothion	2.23
Fenthion	4.091
Malathion	2.36
Methyl parathion	2.86
Mevinphos	0.13
Naled	1.38
Phosmet	2.95
Prophos	3.59
Tetrachlorvinphos	3.53
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 Methyl parathion (CAS 29				
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	
UN number	UN1648
UN proper shipping name	Acetonitrile, solution (Acetonitrile RQ = 5010 LBS) (Fensulfothion, Phosmet)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Label(s)	3
Packing group	П
Special precautions for user	Not available.
Special provisions	IB2, T7, TP2
Packaging exceptions	150
Packaging non bulk	202
Packaging bulk	242
ΙΑΤΑ	
UN number	UN1648
UN proper shipping name	Acetonitrile solution (Acetonitrile)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	Ш
Environmental hazards	No.

ERG Code	3L
Special precautions for user Other information	Not available.
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
IMDG	
UN number	UN1648
UN proper shipping name	ACETONITRILE SOLUTION (Acetonitrile)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	II
Environmental hazards	
Marine pollutant	No.
EmS	F-E, S-D
Special precautions for user	Not available.
Transport in bulk according to	Not established.
Annex II of MARPOL 73/78 and	
the IBC Code	
DOT	





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.

Toxic Substances Control Act (TSCA)

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.
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.
Malathion (CAS 121-75-5)	Listed.
Methyl parathion (CAS 298-00-0)	Listed.
Mevinphos (CAS 7786-34-7)	Listed.

Naled (CAS 300-76-5)	Listed.
Thiophanate-methyl (CAS 23564-05-8)	Listed.
SARA 304 Emergency release notification	
Coumaphos (CAS 56-72-4)	10 LBS
Dimethoate (CAS 60-51-5)	10 LBS
Fensulfothion (CAS 115-90-2)	500 LBS
Methyl parathion; Parathion-methyl (CAS 298-00-0)	100 LBS
Mevinphos (CAS 7786-34-7)	10 LBS
Phosphoric acid, 2-dichloroethenyl dimethyl ester;	10 LBS
Dichlorvos (CAS 62-73-7)	
Phosphorodithioic acid O-ethyl S,S- dipropyl ester;	1000 LBS
Ethoprop; Ethoprophos (CAS 13194-48-4)	
OSHA Specifically Regulated Substances (29 CFR 1910.1	001-1053)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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)
Coumaphos	56-72-4	10		100	10000
Dichlorvos	62-73-7	10	1000		
Dimethoate	60-51-5	10		500	10000
Fensulfothion	115-90-2	500	500		
Methyl parathion	298-00-0	100		100	10000
Mevinphos	7786-34-7	10	500		
Prophos	13194-48-4	1000	1000		
SARA 313 (TRI report	ting)				
Chemical name		C	AS number	% by wt.	
Acetonitrile		7	75-05-8	99.8	
er federal regulations					
Acetonitrile (CAS Dichlorvos (CAS 6	62-73-7)	dontal Poloaso	Provention (40 CEP 6	8 130)	
Dichlorvos (CAS 6 Clean Air Act (CAA) 5 Not regulated. Safe Drinking Water 7 (SDWA) state regulations US. California. Ca subd. (a))	32-73-7) Section 112(r) Accid Act Not regulat WARNING birth defect andidate Chemicals	ed. : This product co is or other reprod	ontains a chemical know ductive harm.		rnia to cause cancer and egs, tit. 22, 69502.3,
Dichlorvos (CAS 6 Clean Air Act (CAA) 5 Not regulated. Safe Drinking Water 4 (SDWA) state regulations US. California. Ca subd. (a)) Acetonitrile (C	S2-73-7) Section 112(r) Accid Act Not regulat WARNING birth defect andidate Chemicals CAS 75-05-8)	ed. : This product co is or other reprod	ontains a chemical know ductive harm.	vn to the State of Califo	
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Dichlorvos (CAS 6 Clean Air Act (CAA) 5 Not regulated. Safe Drinking Water 4 (SDWA) state regulations US. California. Casubd. (a)) Acetonitrile (C California Proposition California Proposition California Proposition California Proposition California Proposition California Proposition California Proposition California Proposition California Proposition California Proposition	S2-73-7) Section 112(r) Accid Act Not regulat WARNING birth defect andidate Chemicals CAS 75-05-8) n 65 sition 65 - CRT: List AS 62-73-7) AS 2593-15-9) AS 121-75-5) S 13194-48-4) phos (CAS 22248-79 sition 65 - CRT: List	ed. : This product co is or other reprod s List. Safer Co ted date/Carcin	ontains a chemical know ductive harm. nsumer Products Reg ogenic substance Listed: January 1, Listed: October 1, Listed: May 20, 20 Listed: May 20, 20 Depmental toxin	wn to the State of Califo gulations (Cal. Code R 1989 1994 16 7, 2001 16	
Dichlorvos (CAS 6 Clean Air Act (CAA) 5 Not regulated. Safe Drinking Water 7 (SDWA) state regulations US. California. Casubd. (a)) Acetonitrile (C California Proposition California Proposition California Proposi Dichlorvos (CAS Tetrachlorvin) California Proposi Chlorpyrifos (CAS)	S2-73-7) Section 112(r) Accid Act Not regulat WARNING birth defect andidate Chemicals CAS 75-05-8) n 65 sition 65 - CRT: List AS 62-73-7) AS 2593-15-9) AS 121-75-5) S 13194-48-4) phos (CAS 22248-79 sition 65 - CRT: List CAS 2921-88-2)	ed. : This product co is or other reproc s List. Safer Co ted date/Carcin	ontains a chemical know ductive harm. nsumer Products Reg ogenic substance Listed: January 1, Listed: October 1, Listed: May 20, 20 Listed: February 2 Listed: May 20, 20	wn to the State of Califo gulations (Cal. Code R 1989 1994 16 7, 2001 16	
Dichlorvos (CAS 6 Clean Air Act (CAA) 5 Not regulated. Safe Drinking Water 7 (SDWA) state regulations US. California. Casubd. (a)) Acetonitrile (C California Proposition California Proposition Dichlorvos (C Etridiazole (C Malathion (C/ Prophos (CAS Tetrachlorvin) California Proposition California Proposition California Proposition	S2-73-7) Section 112(r) Accid Act Not regulat WARNING birth defect andidate Chemicals CAS 75-05-8) n 65 sition 65 - CRT: List AS 62-73-7) AS 2593-15-9) AS 121-75-5) S 13194-48-4) phos (CAS 22248-79 sition 65 - CRT: List CAS 2921-88-2)	ed. : This product cc is or other reprod s List. Safer Co ted date/Carcin 2-9) ted date/Develo ted date/Female	ontains a chemical know ductive harm. nsumer Products Reg ogenic substance Listed: January 1, Listed: October 1, Listed: May 20, 20 Listed: February 2 Listed: May 20, 20 opmental toxin Listed: December	wn to the State of Califo gulations (Cal. Code R 1989 1994 16 7, 2001 16 15, 2017	

Thiophanate-methyl (CAS 23564-05-8) Listed: May 18, 1999

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	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
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
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
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	04-04-2023
Version #	01
NFPA ratings	Health: 3 Flammability: 3 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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	This Safety Data Sheet (SDS) is intended only for use with Chem Service, Inc. products and should not be relied on for use with materials from any other supplier even if the chemical name(s) on the product are identical! Whenever using an SDS for a solution or mixture the user should refer to the SDS for every component of the solution or mixture. Chem Service warrants that this SDS is based upon the most current information available to Chem Service at the time it was last revised. THIS WARRANTY IS EXCLUSIVE, AND CHEM SERVICE, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. This SDS is provided gratis and CHEM SERVICE, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR CONTINGENT DAMAGES.
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