

1. Identification

Product identifier Carbamate Pesticides Mixture #2 - 531.1,8318

Other means of identification

Item M-CP83182A4

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
 Direct 610-692-3026

Website www.chemservice.com

E-mail info@chemservice.com

Emergency phone number Chemtrec US 800-424-9300
 Chemtrec outside US +1 703-527-3887

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 irritation	Category 2A
	Carcinogenicity	Category 2
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1
OSHA defined hazards	Not classified.	

Label elements



Signal word Danger

Hazard statement Highly flammable liquid and vapor. Toxic if swallowed. Toxic in contact with skin. Causes serious eye irritation. Toxic if inhaled. Suspected of causing cancer. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use only outdoors or in a well-ventilated area. 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. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If swallowed: Immediately call a poison center/doctor. 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. Specific treatment (see this label). Rinse mouth. 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	Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up.
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	0.1% of the mixture consists of component(s) of unknown acute oral toxicity. 0.1% of the mixture consists of component(s) of unknown acute dermal toxicity. 0.2% of the mixture consists of component(s) of unknown acute inhalation toxicity. 99.1% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 99.1% 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
3-Hydroxycarbofuran		16655-82-6	0.1
Aldicarb		116-06-3	0.1
Aldicarb sulfone		1646-88-4	0.1
Carbaryl		63-25-2	0.1
Carbofuran		1563-66-2	0.1
Dioxacarb		6988-21-2	0.1
Methiocarb		2032-65-7	0.1
Methomyl		16752-77-5	0.1
Promecarb		2631-37-0	0.1
Propoxur		114-26-1	0.1

*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 POISON CENTER or doctor/physician.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a POISON CENTER or doctor/physician if you feel unwell. Get medical attention if irritation develops and persists.
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	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. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
General information	Take off immediately all contaminated clothing. 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	Alcohol resistant foam. Water fog. Carbon dioxide (CO ₂). 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 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. 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. 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. 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.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. 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. Cover with plastic sheet to prevent spreading. 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: 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. Use appropriate containment to avoid environmental contamination.

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. Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. 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 breathing vapor. 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.

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. Avoid spark promoters. Eliminate sources of ignition. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

8. Exposure controls/personal protection**Occupational exposure limits****US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value
Acetonitrile (CAS 75-05-8)	PEL	70 mg/m ³ 40 ppm
Carbaryl (CAS 63-25-2)	PEL	5 mg/m ³

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Acetonitrile (CAS 75-05-8)	TWA	20 ppm	
Carbaryl (CAS 63-25-2)	TWA	0.5 mg/m ³	Inhalable fraction and vapor.
Carbofuran (CAS 1563-66-2)	TWA	0.1 mg/m ³	Inhalable fraction and vapor.
Methomyl (CAS 16752-77-5)	TWA	2.5 mg/m ³	
Propoxur (CAS 114-26-1)	TWA	0.5 mg/m ³	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Acetonitrile (CAS 75-05-8)	TWA	34 mg/m ³ 20 ppm
Carbaryl (CAS 63-25-2)	TWA	5 mg/m ³
Carbofuran (CAS 1563-66-2)	TWA	0.1 mg/m ³
Methomyl (CAS 16752-77-5)	TWA	2.5 mg/m ³
Propoxur (CAS 114-26-1)	TWA	0.5 mg/m ³

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
Aldicarb (CAS 116-06-3)	TWA	0.001 ppm

Biological limit values

No biological exposure limits noted for the ingredient(s).

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

Acetonitrile (CAS 75-05-8) Can be absorbed through the skin.
Methomyl (CAS 16752-77-5) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

Acetonitrile (CAS 75-05-8) Skin designation applies.
Methomyl (CAS 16752-77-5) Skin designation applies.

US ACGIH Threshold Limit Values: Skin designation

Acetonitrile (CAS 75-05-8) Can be absorbed through the skin.
Carbaryl (CAS 63-25-2) Can be absorbed through the skin.

US WEEL Guides: Skin designation

Aldicarb (CAS 116-06-3) Can be absorbed through the skin.

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.

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 protective gloves.

Other Wear appropriate chemical resistant clothing.

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.
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	-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 available.
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	118.39 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	0.789395 g/cm3 estimated
Flammability class	Flammable IB estimated
Percent volatile	99 % estimated
Specific gravity	0.79 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	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. 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	Toxic if swallowed.
Inhalation	Toxic by inhalation.
Skin contact	Toxic in contact with skin.
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.

Information on toxicological effects

Acute toxicity Toxic by inhalation. Toxic if swallowed. Toxic in contact with skin. Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Components	Species	Test Results
Acetonitrile (CAS 75-05-8)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	390 mg/kg 0.5 ml/kg
<i>Inhalation</i>		
LC100	Dog	16000 ppm, 4 Hours
LC50	Guinea pig	5655 ppm, 4 Hours
	Mouse	3587 ppm, 4 Hours 2693 ppm, 1 Hours
	Rabbit	2825 ppm, 4 Hours
	Rat	17100 ppm, 4 Hours 7500 ppm, 8 Hours 330 ppm, 90 Days
<i>Oral</i>		
LD50	Guinea pig	140 mg/kg 0.177 ml/kg
	Mouse	269 mg/kg
	Rat	158 mg/kg 1.68 - 4.49 ml/kg
<i>Other</i>		
LD50	Mouse	0.25 g/kg
	Rat	1100 mg/kg 0.85 ml/kg
Aldicarb (CAS 116-06-3)		
Acute		
<i>Dermal</i>		
LD50	Guinea pig	2400 mg/kg
	Rabbit	> 5 mg/kg
	Rat	2.5 mg/kg
<i>Inhalation</i>		
LC50	Rat	0.2 mg/l, 5 Hours
<i>Oral</i>		
LD50	Chicken	8 mg/kg
	Guinea pig	1 mg/kg
	Mouse	0.3 mg/kg
	Rabbit	1.3 mg/kg
	Rat	0.65 mg/kg

Components	Species	Test Results
Carbaryl (CAS 63-25-2)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	2000 mg/kg
	Rat	4000 mg/kg
<i>Oral</i>		
LD50	Mouse	128 mg/kg
	Rat	230 mg/kg
<i>Other</i>		
LD50	Mouse	25 mg/kg
	Rat	41.9 mg/kg
Carbofuran (CAS 1563-66-2)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	885 mg/kg
	Rat	120 mg/kg
<i>Inhalation</i>		
LC50	Dog	0.052 mg/l, 4 Hours
	Guinea pig	0.043 mg/l, 4 Hours
	Rat	0.085 mg/l, 4 Hours
		0.08 mg/l, 1 Hours
<i>Oral</i>		
LD50	Dog	15 mg/kg
	Guinea pig	9.18 mg/kg
	Mouse	2 mg/kg
	Rat	5 mg/kg
MLD	Rat	23.4 mg/kg
<i>Other</i>		
LD50	Rabbit	2550 mg/kg
	Rat	1350 mg/kg
Methiocarb (CAS 2032-65-7)		
Acute		
<i>Dermal</i>		
LD50	Rat	350 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 0.322 mg/kg, 4 Hours
<i>Oral</i>		
LD50	Dog	25 mg/kg
	Guinea pig	40 mg/kg
	Mouse	52 - 58 mg/kg
	Rat	10 - 35 mg/kg
<i>Other</i>		
LD50	Mouse	16 mg/kg
	Rabbit	> 2000 mg/kg
	Rat	> 5000 mg/kg
Methomyl (CAS 16752-77-5)		
Acute		
<i>Dermal</i>		
LD50	Rat	> 1000 mg/kg
<i>Inhalation</i>		
LD50	Rat	0.258 mg/l, 4 Hours

Components	Species	Test Results
<i>Oral</i> LD50	Mouse	10 mg/kg
	Rat	17 mg/kg
<i>Other</i> LD50	Rabbit	> 5000 mg/kg
	Rat	9 mg/kg
Promecarb (CAS 2631-37-0)		
Acute		
<i>Dermal</i>		
LD50	Rat	688 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 0.16 mg/l, 4 Hours
<i>Oral</i>		
LD50	Mouse	39.5 mg/kg
	Quail	78 mg/kg
	Rat	60 - 90 mg/kg
<i>Other</i>		
LD50	Rabbit	> 1000 mg/kg
	Rat	> 1000 mg/kg
Propoxur (CAS 114-26-1)		
Acute		
<i>Dermal</i>		
LD50	Rat	> 1000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 0.5 mg/l, 4 Hours 1.44 mg/l, 1 Hours
<i>Oral</i>		
LD50	Goat	> 800 mg/kg
	Mouse	23.5 mg/kg
	Rat	83 mg/kg
<i>Other</i>		
LD50	Rat	11 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

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

Aldicarb (CAS 116-06-3) 3 Not classifiable as to carcinogenicity to humans.

Carbaryl (CAS 63-25-2) 3 Not classifiable as to carcinogenicity to humans.

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

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 available.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

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

Components	Species	Test Results
Acetonitrile (CAS 75-05-8)		
Aquatic		
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>) > 100 mg/l, 96 hours
Aldicarb (CAS 116-06-3)		
Aquatic		
Crustacea	EC50	Water flea (<i>Daphnia laevis</i>) 0.045 - 0.059 mg/l, 48 hours
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>) 0.05 mg/l, 96 hours
Aldicarb sulfone (CAS 1646-88-4)		
Aquatic		
Crustacea	EC50	Water flea (<i>Daphnia laevis</i>) 0.32 - 0.43 mg/l, 48 hours
Carbaryl (CAS 63-25-2)		
Aquatic		
Crustacea	EC50	Water flea (<i>Daphnia magna</i>) 0.0027 - 0.012 mg/l, 48 hours
Fish	LC50	Atlantic salmon (<i>Salmo salar</i>) 0.704 - 1.42 mg/l, 96 hours
Carbofuran (CAS 1563-66-2)		
Aquatic		
Crustacea	EC50	Water flea (<i>Ceriodaphnia dubia</i>) 0.002 mg/l, 48 hours
Fish	LC50	Striped bass (<i>Morone saxatilis</i>) 0.11 - 0.15 mg/l, 96 hours
Dioxacarb (CAS 6988-21-2)		
Aquatic		
Fish	LC50	Crucian carp (<i>Carassius carassius</i>) 18.9 - 29.1 mg/l, 96 hours
Methiocarb (CAS 2032-65-7)		
Aquatic		
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>) 0.11 mg/l, 96 hours
Methomyl (CAS 16752-77-5)		
Aquatic		
Crustacea	EC50	Water flea (<i>Daphnia magna</i>) 0.0041 - 0.019 mg/l, 48 hours
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>) 0.37 - 1.04 mg/l, 96 hours
Propoxur (CAS 114-26-1)		
Aquatic		
Crustacea	EC50	Water flea (<i>Daphnia magna</i>) 0.0209 - 0.0365 mg/l, 48 hours
Fish	LC50	Brown Trout (<i>Salmo trutta fario</i>) 1.84 - 2.42 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)

Acetonitrile	-0.34
Aldicarb	1.13
Carbaryl	2.36
Carbofuran	2.32
Methiocarb	2.92
Methomyl	0.6
Promecarb	3.1
Propoxur	1.52

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

Aldicarb (CAS 116-06-3)	P070
Aldicarb sulfone (CAS 1646-88-4)	P203
Carbofuran (CAS 1563-66-2)	P127
Methiocarb (CAS 2032-65-7)	P199
Methomyl (CAS 16752-77-5)	P066
Promecarb (CAS 2631-37-0)	P201

US RCRA Hazardous Waste U List: Reference

Acetonitrile (CAS 75-05-8)	U003
Carbaryl (CAS 63-25-2)	U279
Propoxur (CAS 114-26-1)	U411

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

IATA

UN number	UN1648
UN proper shipping name	Acetonitrile solution
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	II
Environmental hazards	No.
ERG Code	3L
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	UN1648
UN proper shipping name	ACETONITRILE SOLUTION, MARINE POLLUTANT
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	II

Environmental hazards

Marine pollutant Yes

EmS F-E, S-D

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.

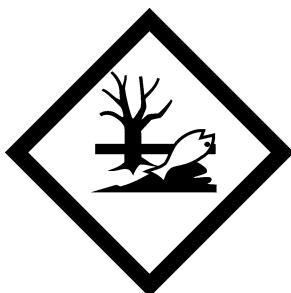
DOT



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)

Acetonitrile (CAS 75-05-8)	Listed.
Aldicarb (CAS 116-06-3)	Listed.
Aldicarb sulfone (CAS 1646-88-4)	Listed.
Carbaryl (CAS 63-25-2)	Listed.
Carbofuran (CAS 1563-66-2)	Listed.
Methiocarb (CAS 2032-65-7)	Listed.
Methomyl (CAS 16752-77-5)	Listed.
Promecarb (CAS 2631-37-0)	Listed.
Propoxur (CAS 114-26-1)	Listed.

SARA 304 Emergency release notification

Aldicarb (CAS 116-06-3)	1 LBS
Carbofuran (CAS 1563-66-2)	10 LBS
Methiocarb (CAS 2032-65-7)	10 LBS
Methomyl (CAS 16752-77-5)	100 LBS
Promecarb (CAS 2631-37-0)	1000 LBS

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

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

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

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Aldicarb	116-06-3	1		100 lbs	10000 lbs
Carbofuran	1563-66-2	10		10 lbs	10000 lbs
Methiocarb	2032-65-7	10		500 lbs	10000 lbs
Methomyl	16752-77-5	100		500 lbs	10000 lbs
Promecarb	2631-37-0	1000		500 lbs	10000 lbs

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Acetonitrile	75-05-8	99

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

Acetonitrile (CAS 75-05-8)
 Carbaryl (CAS 63-25-2)
 Propoxur (CAS 114-26-1)

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**

Acetonitrile (CAS 75-05-8)
 Aldicarb (CAS 116-06-3)
 Carbaryl (CAS 63-25-2)
 Carbofuran (CAS 1563-66-2)
 Methiocarb (CAS 2032-65-7)
 Methomyl (CAS 16752-77-5)
 Promecarb (CAS 2631-37-0)
 Propoxur (CAS 114-26-1)

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

Acetonitrile (CAS 75-05-8) 500 LBS
 Aldicarb (CAS 116-06-3) 100 LBS
 Carbaryl (CAS 63-25-2) 500 LBS
 Carbofuran (CAS 1563-66-2) 10 LBS
 Methiocarb (CAS 2032-65-7) 500 LBS
 Methomyl (CAS 16752-77-5) 500 LBS
 Promecarb (CAS 2631-37-0) 500 LBS
 Propoxur (CAS 114-26-1) 500 LBS

US. Pennsylvania RTK - Hazardous Substances

Acetonitrile (CAS 75-05-8)
 Aldicarb (CAS 116-06-3)
 Carbaryl (CAS 63-25-2)
 Carbofuran (CAS 1563-66-2)
 Methiocarb (CAS 2032-65-7)
 Methomyl (CAS 16752-77-5)
 Promecarb (CAS 2631-37-0)
 Propoxur (CAS 114-26-1)

US. Rhode Island RTK

Acetonitrile (CAS 75-05-8)
 Aldicarb (CAS 116-06-3)
 Aldicarb sulfone (CAS 1646-88-4)
 Carbaryl (CAS 63-25-2)
 Carbofuran (CAS 1563-66-2)
 Methiocarb (CAS 2032-65-7)
 Methomyl (CAS 16752-77-5)

Promecarb (CAS 2631-37-0)

Propoxur (CAS 114-26-1)

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

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

Carbaryl (CAS 63-25-2)

Listed: February 5, 2010

Propoxur (CAS 114-26-1)

Listed: August 11, 2006

US - California Proposition 65 - CRT: Listed date/Developmental toxin

Carbaryl (CAS 63-25-2)

Listed: August 7, 2009

US - California Proposition 65 - CRT: Listed date/Male reproductive toxin

Carbaryl (CAS 63-25-2)

Listed: August 7, 2009

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
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	10-10-2014
Version #	01
NFPA ratings	Health: 2 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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