

SAFETY DATA SHEET

1. Identification

Product identifier	National Food Safety Pesticide Mix A - 73 of 372 Analytes	
Other means of identification		
Item	M-CHINAPESTAA1	
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
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. 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/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	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	99.27% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 99.27% 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	99.27
3-Hydroxycarbofuran		16655-82-6	0.01
Aldicarb		116-06-3	0.01
Aldicarb sulfone		1646-88-4	0.01
Aldicarb sulfoxide		1646-87-3	0.01
Amidosulfuron		120923-37-7	0.01
Amisulbrom		348635-87-0	0.01
Bendiocarb		22781-23-3	0.01
Bensulfuron-methyl		83055-99-6	0.01
Carbaryl		63-25-2	0.01
Carbendazim		10605-21-7	0.01
Carbofuran		1563-66-2	0.01
Chlorbenzuron		57160-47-1	0.01
Chlorfenvinphos		470-90-6	0.01
Chlorfluazuron		71422-67-8	0.01
Chlorimuron ethyl		90982-32-4	0.01
Chlorotoluron		15545-48-9	0.01
Chlorsulfuron		64902-72-3	0.01
Cinosulfuron		94593-91-6	0.01
Cyclosulfamuron		136849-15-5	0.01
Diethofencarb		87130-20-9	0.01
Diflubenzuron		35367-38-5	0.01
Dinotefuran		165252-70-0	0.01
Diuron		330-54-1	0.01
Fenobucarb		3766-81-2	0.01
Fenothiocarb		62850-32-2	0.01
Fenoxycarb		79127-80-3	0.01
Flucetosulfuron		412928-75-7	0.01
Flufenoxuron		101463-69-8	0.01
Forchlorfenuron		68157-60-8	0.01
Furathiocarb		65907-30-4	0.01
Halosulfuron-methyl		100784-20-1	0.01
Hexaflumuron		86479-06-3	0.01
Imazalil		35554-44-0	0.01
Imidacloprid		138261-41-3	0.01

Chemical name	Common name and synonyms	CAS number	%
Indoxacarb		144171-61-9	0.01
Iodosulfuron-methyl-sodium		185119-76-0	0.01
Iprodione		36734-19-7	0.01
Iprovalicarb		140923-17-7	0.01
Isoproc carb		2631-40-5	0.01
Isoproturon		34123-59-6	0.01
Linuron		330-55-2	0.01
Lufenuron		103055-07-8	0.01
Mesosulfuron-methyl		208465-21-8	0.01
Metazosulfuron		868680-84-6	0.01
Methiocarb		2032-65-7	0.01
Methiocarb sulfone		2179-25-1	0.01
Methiocarb sulfoxide		2635-10-1	0.01
Methomyl		16752-77-5	0.01
Metolcarb		1129-41-5	0.01
Metsulfuron methyl		74223-64-6	0.01
Novaluron		116714-46-6	0.01
Orthosulfamuron		213464-77-8	0.01
Oxamyl		23135-22-0	0.01
Oxamyl Oxime		30558-43-1	0.01
Pencycuron		66063-05-6	0.01
Promecarb		2631-37-0	0.01
Propamocarb		24579-73-5	0.01
Propoxur		114-26-1	0.01
Propyrisulfuron		570415-88-2	0.01
Prosulfocarb		52888-80-9	0.01
Pyrazosulfuron-ethyl		93697-74-6	0.01
Rotenone		83-79-4	0.01
Sulfoxaflor		946578-00-3	0.01
Teflubenzuron		83121-18-0	0.01
Thiacloprid		111988-49-9	0.01
Thidiazuron		51707-55-2	0.01
Thifensulfuron-methyl		79277-27-3	0.01
Triasulfuron		82097-50-5	0.01
Tribenuron methyl		101200-48-0	0.01
Triflumuron		64628-44-0	0.01
Triflusulfuron-methyl		126535-15-7	0.01
Tritosulfuron		142469-14-5	0.01
Zoxamide		156052-68-5	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 (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	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors and spray mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
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.
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. 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 tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

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

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

Components	Type	Value
Acetonitrile (CAS 75-05-8)	PEL	70 mg/m3 40 ppm
Carbaryl (CAS 63-25-2)	PEL	5 mg/m3
Rotenone (CAS 83-79-4)	PEL	5 mg/m3

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Acetonitrile (CAS 75-05-8)	TWA	20 ppm	
Aldicarb (CAS 116-06-3)	TWA	0.005 mg/m3	Inhalable fraction and vapor.
Bendiocarb (CAS 22781-23-3)	TWA	0.1 mg/m3	Inhalable fraction and vapor.
Carbaryl (CAS 63-25-2)	TWA	0.5 mg/m3	Inhalable fraction and vapor.
Carbofuran (CAS 1563-66-2)	TWA	0.1 mg/m3	Inhalable fraction and vapor.
Diuron (CAS 330-54-1)	TWA	10 mg/m3	
Methomyl (CAS 16752-77-5)	TWA	0.2 mg/m3	Inhalable fraction and vapor.
Propoxur (CAS 114-26-1)	TWA	0.5 mg/m3	Inhalable fraction and vapor.
Rotenone (CAS 83-79-4)	TWA	5 mg/m3	
Sulfoxaflor (CAS 946578-00-3)	TWA	0.1 mg/m3	Inhalable fraction.
Thiacloprid (CAS 111988-49-9)	TWA	0.2 mg/m3	Inhalable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Acetonitrile (CAS 75-05-8)	TWA	34 mg/m3 20 ppm
Carbaryl (CAS 63-25-2)	TWA	5 mg/m3
Carbofuran (CAS 1563-66-2)	TWA	0.1 mg/m3
Diuron (CAS 330-54-1)	TWA	10 mg/m3
Methomyl (CAS 16752-77-5)	TWA	2.5 mg/m3
Propoxur (CAS 114-26-1)	TWA	0.5 mg/m3
Rotenone (CAS 83-79-4)	TWA	5 mg/m3

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
Aldicarb (CAS 116-06-3)	TWA	0.01 mg/m3 0.001 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Aldicarb (CAS 116-06-3)	70 %	Acetylcholinest erase activity	Reduction from individual baseline activity in red blood cells	*
	60 %	Butyrylcholines terase activity	Serum or Plasma	*
Bendiocarb (CAS 22781-23-3)	70 %	Acetylcholinest erase activity	Reduction from individual baseline activity in red blood cells	*
	60 %	Butyrylcholines terase activity	Serum or Plasma	*
Carbaryl (CAS 63-25-2)	70 %	Acetylcholinest erase activity	Reduction from individual baseline activity in red blood cells	*
	60 %	Butyrylcholines terase activity	Serum or Plasma	*
Carbofuran (CAS 1563-66-2)	70 %	Acetylcholinest erase activity	Reduction from individual baseline activity in red blood cells	*
	60 %	Butyrylcholines terase activity	Serum or Plasma	*

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Methomyl (CAS 16752-77-5)	70 %	Acetylcholinest erase activity	Reduction from individual baseline activity in red blood cells	*
	60 %	Butrylcholines terase activity	Serum or Plasma	*
Propoxur (CAS 114-26-1)	70 %	Acetylcholinest erase activity	Reduction from individual baseline activity in red blood cells	*
	60 %	Butrylcholines 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.

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)

Danger of cutaneous absorption

Aldicarb (CAS 116-06-3)

Danger of cutaneous absorption

Bendiocarb (CAS 22781-23-3)

Danger of cutaneous absorption

Carbaryl (CAS 63-25-2)

Danger of cutaneous absorption

Methomyl (CAS 16752-77-5)

Danger of cutaneous absorption

Thiacloprid (CAS 111988-49-9)

Danger of cutaneous absorption

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 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 and safety shower.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear safety glasses with side shields (or goggles).

Skin protection**Hand protection**

Wear appropriate chemical resistant gloves.

Other

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

Respiratory protection

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

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

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

9. Physical and chemical properties**Appearance****Physical state**

Liquid.

Form	Liquid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	-49 °F (-45 °C) estimated
Initial boiling point and boiling range	178.88 °F (81.6 °C) estimated
Flash point	42.0 °F (5.6 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
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	0.80293 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Flammable IB estimated
Oxidizing properties	Not oxidizing.
Percent volatile	99.27 % estimated
Specific gravity	0.8 estimated
VOC	99.27 % 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

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 toxicological characteristics

Convulsions. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity

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

Components	Species	Test Results
Aldicarb (CAS 116-06-3)		
Acute		
Dermal		
LD50	Rat	2.5 mg/kg
Inhalation		
LC50	Rat	200 mg/m ³ , 5 Hours
Oral		
LD50	Rat	0.65 mg/kg
Bendiocarb (CAS 22781-23-3)		
Acute		
Dermal		
LD50	Rat	566 mg/kg
Oral		
LD50	Rat	40 mg/kg
Bensulfuron-methyl (CAS 83055-99-6)		
Acute		
Oral		
LD50	-	5000 mg/kg
Carbaryl (CAS 63-25-2)		
Acute		
Dermal		
LD50	Rabbit	2000 mg/kg
Oral		
LD50	Rat	230 mg/kg
Carbendazim (CAS 10605-21-7)		
Acute		
Dermal		
LD50	Rat	2000 mg/kg
Oral		
LD50	Rat	> 5000 mg/kg
Carbofuran (CAS 1563-66-2)		
Acute		
Dermal		
LD50	Rat	120 mg/kg
Inhalation		
LC50	Rat	0.08 mg/l, 1 Hours
Oral		
LD50	Rat	5 mg/kg
Chlorfenvinphos (CAS 470-90-6)		
Acute		
Dermal		
LD50	Rat	31 - 108 mg/kg
Inhalation		
LC50	Rat	0.05 mg/l, 4 Hours

Components	Species	Test Results
Chlorimuron ethyl (CAS 90982-32-4)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	> 5 mg/l, 4 Hours
Oral		
LD50	Rat	4102 mg/kg
Chlorotoluron (CAS 15545-48-9)		
<u>Acute</u>		
Oral		
LD50	Rat	> 10000 mg/kg
Chlorsulfuron (CAS 64902-72-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 3400 mg/kg
Inhalation		
LC50	Rat	> 5.9 mg/l, 4 Hours
Oral		
LD50	Rat	5545 mg/kg
Diflubenzuron (CAS 35367-38-5)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	790 mg/kg
Dinotefuran (CAS 165252-70-0)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg
Oral		
LD50	Rat	2000 mg/kg
Diuron (CAS 330-54-1)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 1000 mg/kg
Inhalation		
LC50	Rat	> 0.265 mg/l, 4 Hours
Oral		
LD50	Rat	437 mg/kg
Flufenoxuron (CAS 101463-69-8)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2 g/kg
Inhalation		
LC50	Rat	> 5.1 mg/l, 4 Hours
Oral		
LD50	Rat	> 3 g/kg

Components	Species	Test Results
Forchlorfenuron (CAS 68157-60-8)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Oral		
LD50	Rat	4904 mg/kg
Furathiocarb (CAS 65907-30-4)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg
Inhalation		
LC50	Rat	0.214 mg/l, 4 Hours
Oral		
LD50	Rat	53 mg/kg
Hexaflumuron (CAS 86479-06-3)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 5000 mg/kg
Oral		
LD50	Rat	> 5000 mg/kg
Imazalil (CAS 35554-44-0)		
<u>Acute</u>		
Dermal		
LD50	Rat	4200 mg/kg
Oral		
LD50	Rat	227 mg/kg
Imidacloprid (CAS 138261-41-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	> 69 mg/m3, 4 Hours
Iprodione (CAS 36734-19-7)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	> 5.16 mg/l, 4 Hours
Oral		
LD50	Rat	3500 mg/kg
Linuron (CAS 330-55-2)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Inhalation		
LC50	Rat	48 mg/m3, 4 Hours
Oral		
LD50	Rat	1146 mg/kg

Components	Species	Test Results
Lufenuron (CAS 103055-07-8)		
<u>Acute</u>		
Inhalation		
LC50	-	2.35 mg/l, 4 Hours
Mesosulfuron-methyl (CAS 208465-21-8)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 5000 mg/kg
Oral		
LD50	Rat	> 5000 mg/kg
Methiocarb (CAS 2032-65-7)		
<u>Acute</u>		
Dermal		
LD50	Rat	350 mg/kg
Oral		
LD50	Rat	10 - 35 mg/kg
Methomyl (CAS 16752-77-5)		
<u>Acute</u>		
Oral		
LD50	Rat	24 mg/kg
Metolcarb (CAS 1129-41-5)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg
Oral		
LD50	Rat	268 mg/kg
Metsulfuron methyl (CAS 74223-64-6)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	> 5 mg/l, 4 Hours
Oral		
LD50	Rat	> 5000 mg/kg
Orthosulfamuron (CAS 213464-77-8)		
<u>Acute</u>		
Oral		
LD50	Rat	5000 mg/kg
Oxamyl (CAS 23135-22-0)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 1200 mg/kg
Inhalation		
LC50	Rat	0.12 mg/l, 1 Hours
Oral		
LD50	Rat	2.5 mg/kg
Promecarb (CAS 2631-37-0)		
<u>Acute</u>		
Inhalation		
LC50	Rat	> 0.16 mg/l, 4 Hours

Components	Species	Test Results
Propoxur (CAS 114-26-1)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 1000 mg/kg
Inhalation		
LC50	Rat	> 0.5 mg/m ³ , 4 Hours
Prosulfocarb (CAS 52888-80-9)		
<u>Acute</u>		
Oral		
LD50	-	1820 mg/kg
Rotenone (CAS 83-79-4)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	100 - 200 mg/kg
Oral		
LD50	Rat	25 mg/kg
Sulfoxaflor (CAS 946578-00-3)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 5000 mg/kg
Inhalation		
LC50	Rat	> 2.09 mg/l, 4 Hours
Oral		
LD50	Rat	1000 mg/kg
Thiacloprid (CAS 111988-49-9)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg
Inhalation		
LC50	Rat	1223 mg/m ³ , 4 Hours
Oral		
LD50	Rat	274 mg/kg
Thidiazuron (CAS 51707-55-2)		
<u>Acute</u>		
Dermal		
LD50	Rat	> 4000 mg/kg
Oral		
LD50	Rat	> 2000 mg/kg
Thifensulfuron-methyl (CAS 79277-27-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	> 7.9 mg/l, 4 Hours
Oral		
LD50	Rat	> 5000 mg/kg
Tribenuron methyl (CAS 101200-48-0)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 2000 mg/kg

Components	Species	Test Results
Inhalation		
LC50	Rat	> 5 mg/l, 4 Hours
Oral		
LD50	Rat	> 5000 mg/kg
Zoxamide (CAS 156052-68-5)		
Acute		
Dermal		
LD50	Rat	> 2000 mg/kg
Oral		
LD50	Rat	> 5000 mg/kg
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 a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	Not classifiable as to carcinogenicity to humans.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
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.	
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)		
Not listed.		
US. National Toxicology Program (NTP) Report on Carcinogens		
Not listed.		
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful.	

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Components	Species	Test Results
Acetonitrile (CAS 75-05-8)		
Aquatic		
<i>Acute</i>		
Fish	LC50	Fathead minnow (<i>Pimephales promelas</i>) > 100 mg/l, 96 hours
Aldicarb (CAS 116-06-3)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (<i>Daphnia laevis</i>) ≥ 0.045 - ≤ 0.059 mg/l, 48 hours
Fish	LC50	Bluegill (<i>Lepomis macrochirus</i>) ≥ 0.034 - ≤ 0.079 mg/l, 96 hours
Aldicarb sulfone (CAS 1646-88-4)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (<i>Daphnia laevis</i>) ≥ 0.32 - ≤ 0.43 mg/l, 48 hours

Components	Species	Test Results
Aldicarb sulfoxide (CAS 1646-87-3)		
Aquatic		
<i>Acute</i>		
Crustacea EC50	Water flea (<i>Daphnia laevis</i>)	>= 0.039 - <= 0.046 mg/l, 48 hours
Bensulfuron-methyl (CAS 83055-99-6)		
Aquatic		
<i>Acute</i>		
Fish LC50	Walking catfish (<i>Clarias batrachus</i>)	> 100 mg/l, 96 hours
Carbaryl (CAS 63-25-2)		
Aquatic		
<i>Acute</i>		
Crustacea EC50	Water flea (<i>Ceriodaphnia dubia</i>)	>= 0.0024 - <= 0.0038 mg/l, 48 hours
Fish LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>)	>= 0.584 - <= 1.5 mg/l, 96 hours
Carbendazim (CAS 10605-21-7)		
Aquatic		
<i>Acute</i>		
Fish LC50	Channel catfish (<i>Ictalurus punctatus</i>)	>= 0.008 - <= 0.013 mg/l, 96 hours
Carbofuran (CAS 1563-66-2)		
Aquatic		
<i>Acute</i>		
Crustacea EC50	Water flea (<i>Ceriodaphnia dubia</i>)	0.002 mg/l, 48 hours
Fish LC50	Yellow perch (<i>Perca flavescens</i>)	>= 0.082 - <= 0.176 mg/l, 96 hours
Chlorfenvinphos (CAS 470-90-6)		
Aquatic		
<i>Acute</i>		
Fish LC50	Bluegill (<i>Lepomis macrochirus</i>)	>= 0.017 - <= 0.031 mg/l, 96 hours
Chlorotoluron (CAS 15545-48-9)		
Aquatic		
<i>Acute</i>		
Fish LC50	Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>)	35 mg/l, 96 hours
Chlorsulfuron (CAS 64902-72-3)		
Aquatic		
<i>Acute</i>		
Fish LC50	Brown trout (<i>Salmo trutta</i>)	38 mg/l, 96 hours
Diflubenzuron (CAS 35367-38-5)		
Aquatic		
<i>Acute</i>		
Crustacea EC50	Water flea (<i>Daphnia magna</i>)	>= 0.01 - <= 0.024 mg/l, 48 hours
Fish LC50	Mummichog (<i>Fundulus heteroclitus</i>)	>= 29.01 - <= 37.52 mg/l, 96 hours
Diuron (CAS 330-54-1)		
Aquatic		
<i>Acute</i>		
Crustacea EC50	Water flea (<i>Daphnia pulex</i>)	>= 1 - <= 1.9 mg/l, 48 hours
Fish LC50	Lake trout, siscowet (<i>Salvelinus namaycush</i>)	>= 1 - <= 1.3 mg/l, 96 hours
Fenobucarb (CAS 3766-81-2)		
Aquatic		
<i>Acute</i>		
Fish LC50	Carp (<i>Cyprinus carpio</i>)	>= 1.4 - <= 2.2 mg/l, 96 hours

Components	Species	Test Results
Isoprocab (CAS 2631-40-5)		
Aquatic		
<i>Acute</i>		
Fish	LC50 Nile tilapia (<i>Tilapia nilotica</i>)	3.2 mg/l
Isoproturon (CAS 34123-59-6)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50 Water flea (<i>Daphnia magna</i>)	> 1 mg/l, 48 hours
Linuron (CAS 330-55-2)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50 Water flea (<i>Daphnia magna</i>)	>= 0.16 - <= 0.28 mg/l, 48 hours
Fish	LC50 Channel catfish (<i>Ictalurus punctatus</i>)	>= 1.2 - <= 2.6 mg/l, 96 hours
Methiocarb (CAS 2032-65-7)		
Aquatic		
<i>Acute</i>		
Fish	LC50 Bluegill (<i>Lepomis macrochirus</i>)	0.11 mg/l, 96 hours
Methomyl (CAS 16752-77-5)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50 Water flea (<i>Daphnia magna</i>)	>= 0.0041 - <= 0.019 mg/l, 48 hours
Fish	LC50 Channel catfish (<i>Ictalurus punctatus</i>)	>= 0.275 - <= 0.371 mg/l, 96 hours
Metsulfuron methyl (CAS 74223-64-6)		
Aquatic		
<i>Acute</i>		
Fish	LC50 Walking catfish (<i>Clarias batrachus</i>)	>= 100 - <= 1000 mg/l, 96 hours
Oxamyl (CAS 23135-22-0)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50 Water flea (<i>Daphnia magna</i>)	>= 0.33 - <= 0.53 mg/l, 48 hours
Fish	LC50 Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>)	>= 2.5 - <= 5.4 mg/l, 96 hours
Pencycuron (CAS 66063-05-6)		
Aquatic		
<i>Acute</i>		
Fish	LC50 Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>)	> 0.5 mg/l, 96 hours
Propoxur (CAS 114-26-1)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50 Water flea (<i>Daphnia magna</i>)	>= 0.0209 - <= 0.0365 mg/l, 48 hours
Fish	LC50 Guppy (<i>Poecilia reticulata</i>)	>= 1.41 - <= 2.15 mg/l, 96 hours
Rotenone (CAS 83-79-4)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50 Water flea (<i>Daphnia magna</i>)	>= 0.0025 - <= 0.0055 mg/l, 48 hours
Fish	LC50 Rainbow trout,donaldson trout (<i>Oncorhynchus mykiss</i>)	>= 0.0029 - <= 0.0033 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

Acetonitrile	-0.34
Aldicarb	1.13
Bendiocarb	1.7
Carbaryl	2.36
Carbendazim	1.52
Carbofuran	2.32
Chlorfenvinphos	3.81
Chlorotoluron	2.41
Diflubenzuron	3.89
Diuron	2.68
Furathiocarb	4.7
Imazalil	3.82
Linuron	3.2
Methiocarb	2.92
Methomyl	0.6
Metolcarb	1.7
Oxamyl	-0.47
Promecarb	3.1
Propoxur	1.52
Rotenone	4.1

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 Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. If discarded, this product is considered a RCRA ignitable waste, D001. 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 D001: Waste Flammable material with a flash point <140 F
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
Metolcarb (CAS 1129-41-5)	P190
Oxamyl (CAS 23135-22-0)	P194
Promecarb (CAS 2631-37-0)	P201

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 = 5037 LBS), MARINE POLLUTANT (Aldicarb, Propoxur)
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 (Acetonitrile)
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	II
Environmental hazards	Yes
ERG Code	3L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.

IMDG

UN number	UN1648
UN proper shipping name	ACETONITRILE SOLUTION (Acetonitrile), 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 established.

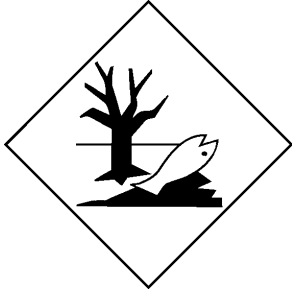
DOT



IATA; IMDG



Marine pollutant



General information

IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

15. Regulatory information

US federal regulations

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

Toxic Substances Control Act (TSCA)

One or more components of the mixture are not on the TSCA 8(b) inventory or are designated "inactive".

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.
Bendiocarb (CAS 22781-23-3)	Listed.
Carbaryl (CAS 63-25-2)	Listed.
Carbendazim (CAS 10605-21-7)	Listed.
Carbofuran (CAS 1563-66-2)	Listed.
Diuron (CAS 330-54-1)	Listed.
Methiocarb (CAS 2032-65-7)	Listed.
Methomyl (CAS 16752-77-5)	Listed.
Metolcarb (CAS 1129-41-5)	Listed.
Oxamyl (CAS 23135-22-0)	Listed.
Oxamyl Oxime (CAS 30558-43-1)	Listed.
Promecarb (CAS 2631-37-0)	Listed.
Propoxur (CAS 114-26-1)	Listed.
Prosulfocarb (CAS 52888-80-9)	Listed.

SARA 304 Emergency release notification

Aldicarb (CAS 116-06-3)	1 LBS
Carbofuran (CAS 1563-66-2)	10 LBS
Chlorfenvinfos (CAS 470-90-6)	500 LBS
Ethanimidothioic acid, N- [[methylamino)carbonyl];	100 LBS
Methomyl (CAS 16752-77-5)	
Mercaptodimethur; Methiocarb (CAS 2032-65-7)	10 LBS
Metolcarb (CAS 1129-41-5)	1000 LBS
Oxamyl (CAS 23135-22-0)	100 LBS
Promecarb (CAS 2631-37-0)	1000 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

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)
Aldicarb	116-06-3	1		100	10000
Carbofuran	1563-66-2	10		10	10000
Chlorfenvinphos	470-90-6	500	500		
Methiocarb	2032-65-7	10		500	10000
Methomyl	16752-77-5	100		500	10000
Metolcarb	1129-41-5	1000		100	10000
Oxamyl	23135-22-0	100		100	10000

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)
Promecarb	2631-37-0	1000		500	10000

SARA 311/312 Hazardous chemical

Classified hazard categories Yes
 Flammable (gases, aerosols, liquids, or solids)
 Acute toxicity (any route of exposure)
 Serious eye damage or eye irritation
 Hazard not otherwise classified (HNOC)

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Acetonitrile	75-05-8	99.27

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) Contains component(s) regulated under the Safe Drinking Water Act.

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

Acetonitrile (CAS 75-05-8)
 Aldicarb sulfone (CAS 1646-88-4)
 Carbaryl (CAS 63-25-2)

California Proposition 65

WARNING: This product can expose you to chemicals including Carbaryl, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Carbaryl (CAS 63-25-2)	Listed: February 5, 2010
Diuron (CAS 330-54-1)	Listed: May 31, 2002
Imazalil (CAS 35554-44-0)	Listed: May 20, 2011
Iprodione (CAS 36734-19-7)	Listed: May 1, 1996
Iprovalicarb (CAS 140923-17-7)	Listed: June 1, 2007
Propoxur (CAS 114-26-1)	Listed: August 11, 2006

California Proposition 65 - CRT: Listed date/Developmental toxin

Carbaryl (CAS 63-25-2)	Listed: August 7, 2009
Linuron (CAS 330-55-2)	Listed: March 19, 1999

California Proposition 65 - CRT: Listed date/Female reproductive toxin

Carbaryl (CAS 63-25-2)	Listed: August 7, 2009
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California Proposition 65 - CRT: Listed date/Male reproductive toxin

Carbaryl (CAS 63-25-2)	Listed: August 7, 2009
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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

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	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 01-20-2023

Version # 01

NFPA ratings Health: 3
Flammability: 3
Instability: 0

Disclaimer

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