

## SAFETY DATA SHEET

## 1. Identification

<b>Product identifier</b>	<b>Canadian Drinking Water Chlorinated Pesticides Mixture</b>	
<b>Other means of identification</b>		
<b>Item</b>	M-CSCAN4AC2	
<b>Recommended use</b>	For Laboratory Use Only	
<b>Recommended restrictions</b>	None known.	
<b>Manufacturer/Importer/Supplier/Distributor information</b>		
<b>Manufacturer</b>		
<b>Company name</b>	Chem Service, Inc.	
<b>Address</b>	660 Tower Lane West Chester, PA 19380 United States	
<b>Telephone</b>	Toll Free	800-452-9994
	Direct	610-692-3026
<b>Website</b>	www.chemservice.com	
<b>E-mail</b>	info@chemservice.com	
<b>Emergency phone number</b>	Chemtrec US	800-424-9300
	Chemtrec outside US	+1 703-527-3887

## 2. Hazard(s) identification

<b>Physical hazards</b>	Flammable liquids	Category 2
<b>Health hazards</b>	Acute toxicity, oral	Category 2
	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity (fertility, the unborn child)	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 1
<b>Environmental hazards</b>	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1
<b>OSHA defined hazards</b>	Not classified.	

## Label elements



Signal word

Danger

Hazard statement

Highly flammable liquid and vapor. Fatal if swallowed. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause drowsiness or dizziness. Suspected of damaging the unborn child. Suspected of damaging fertility. Causes damage to organs through prolonged or repeated exposure. 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. 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. Do not breathe mist or vapor. 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 eye protection/face protection. 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. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Rinse mouth. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. 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

0.06% of the mixture consists of component(s) of unknown acute oral toxicity. 0.04% of the mixture consists of component(s) of unknown acute inhalation toxicity. 0.04% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 0.04% 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	%
n-Hexane		110-54-3	49.86
Toluene		108-88-3	49.86
4,4'-DDE		72-55-9	0.02
4,4'-DDT		50-29-3	0.02
Aldrin (TM)		309-00-2	0.02
cis-Chlordane		5103-71-9	0.02
Dieldrin		60-57-1	0.02
Heptachlor		76-44-8	0.02
Heptachlor epoxide (Isomer B)		1024-57-3	0.02
Lindane (BHC gamma isomer)		58-89-9	0.02
Methoxychlor		72-43-5	0.02
o,p'-DDE		3424-82-6	0.02
o,p'-DDT		789-02-6	0.02
Oxychlordane		27304-13-8	0.02
trans-Chlordane		5103-74-2	0.02
Trifluralin		1582-09-8	0.02

## 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. Call a POISON CENTER or doctor/physician if you feel unwell.

### Skin contact

Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. 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.

<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
<b>Most important symptoms/effects, acute and delayed</b>	May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Prolonged exposure may cause chronic effects.
<b>Indication of immediate medical attention and special treatment needed</b>	Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.
<b>General information</b>	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.
<b>Specific hazards arising from the chemical</b>	Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.
<b>Special protective equipment and precautions for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.
<b>Specific methods</b>	Use standard firefighting procedures and consider the hazards of other involved materials.
<b>General fire hazards</b>	Highly flammable liquid and vapor.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Transfer by mechanical means such as vacuum truck to a salvage tank or other suitable container for recovery or safe disposal. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
<b>Methods and materials for containment and cleaning up</b>	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). 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: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.  Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

## Environmental precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases. 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. 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 breathe mist or vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

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

### Conditions for safe storage, including any incompatibilities

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

## 8. Exposure controls/personal protection

### Occupational exposure limits

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

Components	Type	Value	Form
4,4'-DDT (CAS 50-29-3)	PEL	1 mg/m <sup>3</sup>	
Aldrin (TM) (CAS 309-00-2)	PEL	0.25 mg/m <sup>3</sup>	
cis-Chlordane (CAS 5103-71-9)	PEL	0.5 mg/m <sup>3</sup>	
Dieldrin (CAS 60-57-1)	PEL	0.25 mg/m <sup>3</sup>	
Heptachlor (CAS 76-44-8)	PEL	0.5 mg/m <sup>3</sup>	
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)	PEL	0.5 mg/m <sup>3</sup>	
Lindane (BHC gamma isomer) (CAS 58-89-9)	PEL	0.5 mg/m <sup>3</sup>	
Methoxychlor (CAS 72-43-5)	PEL	15 mg/m <sup>3</sup>	Total dust.
n-Hexane (CAS 110-54-3)	PEL	1800 mg/m <sup>3</sup> 500 ppm	
trans-Chlordane (CAS 5103-74-2)	PEL	0.5 mg/m <sup>3</sup>	

#### US. OSHA Table Z-2 (29 CFR 1910.1000)

Components	Type	Value
Toluene (CAS 108-88-3)	Ceiling	300 ppm
	TWA	200 ppm

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
4,4'-DDT (CAS 50-29-3)	TWA	1 mg/m <sup>3</sup>	
Aldrin (TM) (CAS 309-00-2)	TWA	0.05 mg/m <sup>3</sup>	Inhalable fraction and vapor.

### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
cis-Chlordane (CAS 5103-71-9)	TWA	0.5 mg/m3	Inhalable fraction and vapor.
Dieldrin (CAS 60-57-1)	TWA	0.1 mg/m3	
Heptachlor (CAS 76-44-8)	TWA	0.05 mg/m3	
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)	TWA	0.05 mg/m3	
Lindane (BHC gamma isomer) (CAS 58-89-9)	TWA	0.5 mg/m3	
Methoxychlor (CAS 72-43-5)	TWA	10 mg/m3	
n-Hexane (CAS 110-54-3)	TWA	50 ppm	
Toluene (CAS 108-88-3)	TWA	20 ppm	
trans-Chlordane (CAS 5103-74-2)	TWA	0.5 mg/m3	

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

Components	Type	Value
4,4'-DDT (CAS 50-29-3)	TWA	0.5 mg/m3
Aldrin (TM) (CAS 309-00-2)	TWA	0.25 mg/m3
cis-Chlordane (CAS 5103-71-9)	TWA	0.5 mg/m3
Dieldrin (CAS 60-57-1)	TWA	0.25 mg/m3
Heptachlor (CAS 76-44-8)	TWA	0.5 mg/m3
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)	TWA	0.5 mg/m3
Lindane (BHC gamma isomer) (CAS 58-89-9)	TWA	0.5 mg/m3
n-Hexane (CAS 110-54-3)	TWA	180 mg/m3 50 ppm
Toluene (CAS 108-88-3)	STEL	560 mg/m3 150 ppm
	TWA	375 mg/m3 100 ppm
	TWA	0.5 mg/m3
trans-Chlordane (CAS 5103-74-2)	TWA	0.5 mg/m3

### Biological limit values

#### ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
n-Hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedion, without hydrolysis	Urine	*
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*

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

### Exposure guidelines

#### US - California OELs: Skin designation

4,4'-DDT (CAS 50-29-3)	Can be absorbed through the skin.
Aldrin (TM) (CAS 309-00-2)	Can be absorbed through the skin.
cis-Chlordane (CAS 5103-71-9)	Can be absorbed through the skin.
Dieldrin (CAS 60-57-1)	Can be absorbed through the skin.
Heptachlor (CAS 76-44-8)	Can be absorbed through the skin.
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)	Can be absorbed through the skin.
Lindane (BHC gamma isomer) (CAS 58-89-9)	Can be absorbed through the skin.
n-Hexane (CAS 110-54-3)	Can be absorbed through the skin.
Toluene (CAS 108-88-3)	Can be absorbed through the skin.
trans-Chlordane (CAS 5103-74-2)	Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**

Aldrin (TM) (CAS 309-00-2)	Skin designation applies.
cis-Chlordane (CAS 5103-71-9)	Skin designation applies.
Dieldrin (CAS 60-57-1)	Skin designation applies.
Heptachlor (CAS 76-44-8)	Skin designation applies.
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)	Skin designation applies.
Lindane (BHC gamma isomer) (CAS 58-89-9)	Skin designation applies.
Toluene (CAS 108-88-3)	Skin designation applies.
trans-Chlordane (CAS 5103-74-2)	Skin designation applies.

**US - Tennessee OELs: Skin designation**

4,4'-DDT (CAS 50-29-3)	Can be absorbed through the skin.
Aldrin (TM) (CAS 309-00-2)	Can be absorbed through the skin.
cis-Chlordane (CAS 5103-71-9)	Can be absorbed through the skin.
Dieldrin (CAS 60-57-1)	Can be absorbed through the skin.
Heptachlor (CAS 76-44-8)	Can be absorbed through the skin.
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)	Can be absorbed through the skin.
Lindane (BHC gamma isomer) (CAS 58-89-9)	Can be absorbed through the skin.
trans-Chlordane (CAS 5103-74-2)	Can be absorbed through the skin.

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

Aldrin (TM) (CAS 309-00-2)	Can be absorbed through the skin.
cis-Chlordane (CAS 5103-71-9)	Can be absorbed through the skin.
Dieldrin (CAS 60-57-1)	Can be absorbed through the skin.
Heptachlor (CAS 76-44-8)	Can be absorbed through the skin.
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)	Can be absorbed through the skin.
Lindane (BHC gamma isomer) (CAS 58-89-9)	Can be absorbed through the skin.
n-Hexane (CAS 110-54-3)	Can be absorbed through the skin.
trans-Chlordane (CAS 5103-74-2)	Can be absorbed through the skin.

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

Aldrin (TM) (CAS 309-00-2)	Can be absorbed through the skin.
cis-Chlordane (CAS 5103-71-9)	Can be absorbed through the skin.
Dieldrin (CAS 60-57-1)	Can be absorbed through the skin.
Heptachlor (CAS 76-44-8)	Can be absorbed through the skin.
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)	Can be absorbed through the skin.
Lindane (BHC gamma isomer) (CAS 58-89-9)	Can be absorbed through the skin.
trans-Chlordane (CAS 5103-74-2)	Can be absorbed through the skin.

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

4,4'-DDT (CAS 50-29-3)	Can be absorbed through the skin.
Aldrin (TM) (CAS 309-00-2)	Can be absorbed through the skin.
cis-Chlordane (CAS 5103-71-9)	Can be absorbed through the skin.
Dieldrin (CAS 60-57-1)	Can be absorbed through the skin.
Heptachlor (CAS 76-44-8)	Can be absorbed through the skin.
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)	Can be absorbed through the skin.
Lindane (BHC gamma isomer) (CAS 58-89-9)	Can be absorbed through the skin.
trans-Chlordane (CAS 5103-74-2)	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. Eye wash facilities and emergency shower must be available when handling this product.

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

<b>Eye/face protection</b>	Chemical respirator with organic vapor cartridge and full facepiece.
<b>Skin protection</b>	
<b>Hand protection</b>	Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
<b>Other</b>	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
<b>Respiratory protection</b>	Chemical respirator with organic vapor cartridge and full facepiece.
<b>Thermal hazards</b>	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** -138.82 °F (-94.9 °C) estimated

**Initial boiling point and boiling range** 155.66 °F (68.7 °C) estimated

**Flash point** -7.0 °F (-21.7 °C) estimated

**Evaporation rate** Not available.

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

### Upper/lower flammability or explosive limits

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

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

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

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

**Vapor pressure** 120.25 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** 437 °F (225 °C) estimated

**Decomposition temperature** Not available.

**Viscosity** Not available.

### Other information

**Density** 0.86615 g/cm<sup>3</sup> estimated

**Explosive properties** Not explosive.

**Flammability class** Flammable IB estimated

**Oxidizing properties** Not oxidizing.

**Percent volatile** 49.86 % estimated

**Specific gravity** 0.87 estimated

**VOC (Weight %)** 49.86 % 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

<b>Inhalation</b>	Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
<b>Skin contact</b>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Ingestion</b>	Fatal if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics** Headache. May cause drowsiness and dizziness. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

### Information on toxicological effects

**Acute toxicity** Fatal if swallowed. Harmful if inhaled. Narcotic effects.

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
4,4'-DDE (CAS 72-55-9)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Mouse	700 mg/kg
	Rat	880 mg/kg
4,4'-DDT (CAS 50-29-3)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Guinea pig	1000 mg/kg
	Mouse	250 mg/kg
	Rabbit	300 mg/kg
	Rat	1931 mg/kg
<b>Oral</b>		
LD50	Dog	500 mg/kg
	Goat	> 1000 mg/kg
	Guinea pig	250 mg/kg
	Mouse	150 mg/kg
	Rabbit	300 mg/kg
	Rat	87 mg/kg
	Sheep	> 1000 mg/kg
Aldrin (TM) (CAS 309-00-2)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rabbit	150 mg/kg
	Rat	98 mg/kg
<b>Oral</b>		
LD50	Mouse	44 mg/kg
	Rat	39 mg/kg
cis-Chlordane (CAS 5103-71-9)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	590 - 840 mg/kg
<b>Inhalation</b>		
LC50	Cat	0.1 mg/l, 4 Hours
<b>Oral</b>		
LD50	Mouse	430 mg/kg



Components	Species	Test Results
	Rabbit	300 mg/kg
	Rat	590 mg/kg
TD	Rat	25 mg/kg
Dieldrin (CAS 60-57-1)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	56 mg/kg
<b>Oral</b>		
LD50	Dog	65 mg/kg
	Domestic goat	100 - 200 mg/kg
	Monkey	3 mg/kg
	Mouse	38 mg/kg
	Rat	24 mg/kg
	Sheep	50 - 75 mg/kg
Heptachlor (CAS 76-44-8)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Guinea pig	116 mg/kg
	Rabbit	500 - 2000 mg/kg
	Rat	119 mg/kg
<b>Inhalation</b>		
LC50	Rat	200 mg/l, 4 Hours
<b>Oral</b>		
LD50	Cat	67 mg/kg
	Guinea pig	116 mg/kg
	Hamster	100 - 160 mg/kg
	Mouse	68 - 180 mg/kg
	Rabbit	80 - 90 mg/kg
	Rat	40 - 100 mg/kg
TD	Calf	20 mg/kg
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Guinea pig	116 mg/kg
	Rabbit	500 - 2000 mg/kg
	Rat	119 mg/kg
<b>Inhalation</b>		
LC50	Rat	200 mg/l, 4 Hours
<b>Oral</b>		
LD50	Cat	67 mg/kg
	Guinea pig	116 mg/kg
	Hamster	100 - 160 mg/kg
	Mouse	68 - 180 mg/kg
	Rabbit	80 - 90 mg/kg
	Rat	40 - 100 mg/kg
TD	Calf	20 mg/kg

Components	Species	Test Results
Lindane (BHC gamma isomer) (CAS 58-89-9)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	50 mg/kg
	Rat	500 mg/kg
<b>Inhalation</b>		
LC50	Rat	1.56 mg/l
<b>Oral</b>		
LD50	Dog	40 mg/kg
	Guinea pig	127 mg/kg
	Hamster	360 mg/kg
	Mouse	44 mg/kg
	Rabbit	50 mg/kg
	Rat	76 mg/kg
Methoxychlor (CAS 72-43-5)		
<b><u>Acute</u></b>		
<b>Oral</b>		
LD50	Mouse	2900 mg/kg
	Rat	3460 mg/kg
n-Hexane (CAS 110-54-3)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	> 2000 mg/kg > 5 ml/kg
<b>Inhalation</b>		
LC50	Mouse	48000 ppm, 4 Hours
	Rat	> 5000 ppm, 24 Hours > 31.86 mg/l 73860 ppm, 4 Hours
<b>Oral</b>		
LD50	Rat	24 ml/kg 24 mg/kg
	Wistar rat	49 mg/kg
Toluene (CAS 108-88-3)		
<b><u>Acute</u></b>		
<b>Dermal</b>		
LD50	Rabbit	> 5000 mg/kg 14.1 ml/kg
<b>Inhalation</b>		
LC50	Mouse	6405 - 7436 ppm, 6 Hours 5320 ppm, 8 Hours 400 ppm, 24 Hours
	Rat	26700 ppm, 1 Hours 12200 ppm, 2 Hours 8000 ppm, 4 Hours 5879 - 6281 ppm, 6 Hours 12.5 - 28.8 mg/l, 4 Hours

Components	Species	Test Results
<b>Oral</b>		
LD50	Rat	2.6 g/kg
<b>Other</b>		
LD50	Mouse	59 mg/kg
	Rat	1332 mg/kg
trans-Chlordane (CAS 5103-74-2)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	590 - 840 mg/kg
<b>Inhalation</b>		
LC50	Cat	0.1 mg/l, 4 Hours
<b>Oral</b>		
LD50	Mouse	430 mg/kg
	Rabbit	300 mg/kg
	Rat	590 mg/kg
TD	Rat	25 mg/kg
Trifluralin (CAS 1582-09-8)		
<b>Acute</b>		
<b>Dermal</b>		
LD50	Rat	> 5000 mg/kg
<b>Oral</b>		
LD50	Chicken	> 2000 mg/kg
	Dog	> 2000 mg/kg
	Mouse	500 mg/kg
	Rabbit	> 2000 mg/kg
	Rat	1930 mg/kg

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

**Skin corrosion/irritation** Causes skin irritation.

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

**Respiratory or skin sensitization**

**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** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

4,4'-DDT (CAS 50-29-3)	2A Probably carcinogenic to humans.
Aldrin (TM) (CAS 309-00-2)	3 Not classifiable as to carcinogenicity to humans.
cis-Chlordane (CAS 5103-71-9)	2B Possibly carcinogenic to humans.
Dieldrin (CAS 60-57-1)	3 Not classifiable as to carcinogenicity to humans.
Heptachlor (CAS 76-44-8)	2B Possibly carcinogenic to humans.
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)	2B Possibly carcinogenic to humans.
Lindane (BHC gamma isomer) (CAS 58-89-9)	1 Carcinogenic to humans.
Methoxychlor (CAS 72-43-5)	3 Not classifiable as to carcinogenicity to humans.
Toluene (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.
trans-Chlordane (CAS 5103-74-2)	2B Possibly carcinogenic to humans.
Trifluralin (CAS 1582-09-8)	3 Not classifiable as to carcinogenicity to humans.

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

4,4'-DDT (CAS 50-29-3)	Reasonably Anticipated to be a Human Carcinogen.
Lindane (BHC gamma isomer) (CAS 58-89-9)	Reasonably Anticipated to be a Human Carcinogen.

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

Not listed.

<b>Reproductive toxicity</b>	Suspected of damaging fertility. Suspected of damaging the unborn child.
<b>Specific target organ toxicity - single exposure</b>	May cause drowsiness and dizziness.
<b>Specific target organ toxicity - repeated exposure</b>	Causes damage to organs through prolonged or repeated exposure.
<b>Aspiration hazard</b>	Not an aspiration hazard.
<b>Chronic effects</b>	Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.

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

<b>Components</b>		<b>Species</b>	<b>Test Results</b>
<b>4,4'-DDE (CAS 72-55-9)</b>			
<b>Aquatic</b>			
Crustacea	EC50	Brown shrimp ( <i>Penaeus aztecus</i> )	0.028 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout ( <i>Oncorhynchus mykiss</i> )	0.026 - 0.04 mg/l, 96 hours
<b>4,4'-DDT (CAS 50-29-3)</b>			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	0.0005 - 0.001 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> )	0.0013 - 0.002 mg/l, 96 hours
<b>Aldrin (TM) (CAS 309-00-2)</b>			
<b>Aquatic</b>			
Crustacea	EC50	Ostracod, Seed shrimp ( <i>Cypridopsis vidua</i> )	0.015 - 0.021 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout ( <i>Oncorhynchus mykiss</i> )	0.0023 - 0.0045 mg/l, 96 hours
<b>cis-Chlordane (CAS 5103-71-9)</b>			
<b>Aquatic</b>			
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> )	0.0043 - 0.0118 mg/l, 96 hours
<b>Dieldrin (CAS 60-57-1)</b>			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	0.074 - 0.0854 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout ( <i>Oncorhynchus mykiss</i> )	0.001 - 0.0013 mg/l, 96 hours
<b>Heptachlor (CAS 76-44-8)</b>			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia pulex</i> )	0.021 - 0.063 mg/l, 48 hours
Fish	LC50	Pinfish ( <i>Lagodon rhomboides</i> )	0.002 - 0.0088 mg/l, 96 hours
<b>Heptachlor epoxide (Isomer B) (CAS 1024-57-3)</b>			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia pulex</i> )	0.021 - 0.063 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> )	0.0039 - 0.0072 mg/l, 96 hours
<b>Lindane (BHC gamma isomer) (CAS 58-89-9)</b>			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia pulex</i> )	0.386 - 0.547 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout ( <i>Oncorhynchus mykiss</i> )	0.02 - 0.027 mg/l, 96 hours

Components	Species		Test Results
Methoxychlor (CAS 72-43-5)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia pulex</i> )	0.0006 - 0.0011 mg/l, 48 hours
Fish	LC50	Brook trout ( <i>Salvelinus fontinalis</i> )	0.007 - 0.017 mg/l, 96 hours
n-Hexane (CAS 110-54-3)			
<b>Aquatic</b>			
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	2.101 - 2.981 mg/l, 96 hours
Oxychlorane (CAS 27304-13-8)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	0.86 - 1.96 mg/l, 48 hours
Fish	LC50	Fathead minnow ( <i>Pimephales promelas</i> )	0.0022 - 0.0031 mg/l, 96 hours
Toluene (CAS 108-88-3)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon, silver salmon ( <i>Oncorhynchus kisutch</i> )	8.11 mg/l, 96 hours
trans-Chlordane (CAS 5103-74-2)			
<b>Aquatic</b>			
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> )	0.0308 - 0.0827 mg/l, 96 hours
Trifluralin (CAS 1582-09-8)			
<b>Aquatic</b>			
Crustacea	EC50	Water flea ( <i>Daphnia pulex</i> )	0.16 - 0.36 mg/l, 48 hours
Fish	LC50	Rainbow trout, donaldson trout ( <i>Oncorhynchus mykiss</i> )	0.018 - 0.042 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**

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

4,4'-DDE	6.51
4,4'-DDT	6.91
Aldrin (TM)	6.5
cis-Chlordane	5.16
Dieldrin	5.4
Heptachlor	6.1
Heptachlor epoxide (Isomer B)	5.4
Lindane (BHC gamma isomer)	3.72
Methoxychlor	5.08
n-Hexane	3.9
Toluene	2.73
trans-Chlordane	5.16
Trifluralin	5.34

**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. 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**

Aldrin (TM) (CAS 309-00-2)	P004
Dieldrin (CAS 60-57-1)	P037
Heptachlor (CAS 76-44-8)	P059
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)	P059

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

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

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

<b>UN number</b>	UN1993
<b>UN proper shipping name</b>	Flammable liquids, n.o.s. (n-Hexane RQ = 10028 LBS, Toluene RQ = 2006 LBS), MARINE POLLUTANT
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Label(s)</b>	3
<b>Packing group</b>	II
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Special provisions</b>	IB2, T7, TP1, TP8, TP28
<b>Packaging exceptions</b>	150
<b>Packaging non bulk</b>	202
<b>Packaging bulk</b>	242

**IATA**

<b>UN number</b>	UN1993
<b>UN proper shipping name</b>	Flammable liquid, n.o.s. (n-Hexane, Toluene)
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Packing group</b>	II
<b>Environmental hazards</b>	Yes
<b>ERG Code</b>	3H
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Other information</b>	
<b>Passenger and cargo aircraft</b>	Allowed.
<b>Cargo aircraft only</b>	Allowed.

**IMDG**

<b>UN number</b>	UN1993
<b>UN proper shipping name</b>	FLAMMABLE LIQUID, N.O.S. (n-Hexane, Toluene), MARINE POLLUTANT
<b>Transport hazard class(es)</b>	
<b>Class</b>	3
<b>Subsidiary risk</b>	-
<b>Packing group</b>	II
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	Yes
<b>EmS</b>	F-E, <u>S</u> -E
<b>Special precautions for user</b>	Read safety instructions, SDS and emergency procedures before handling.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not established.

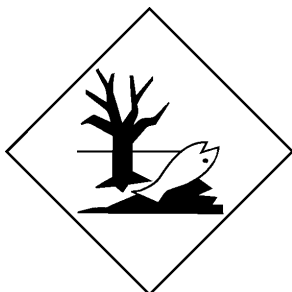
DOT



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.

One or more components are not listed on TSCA.

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

4,4'-DDT (CAS 50-29-3)

0.1 % One-Time Export Notification only.

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

4,4'-DDE (CAS 72-55-9)

Listed.

4,4'-DDT (CAS 50-29-3)

Listed.

Aldrin (TM) (CAS 309-00-2)

Listed.

cis-Chlordane (CAS 5103-71-9)

Listed.

Dieldrin (CAS 60-57-1)

Listed.

Heptachlor (CAS 76-44-8)

Listed.

Heptachlor epoxide (Isomer B) (CAS 1024-57-3)

Listed.

Lindane (BHC gamma isomer) (CAS 58-89-9)

Listed.

Methoxychlor (CAS 72-43-5)

Listed.

n-Hexane (CAS 110-54-3)

Listed.

Toluene (CAS 108-88-3)

Listed.

trans-Chlordane (CAS 5103-74-2)

Listed.

Trifluralin (CAS 1582-09-8)

Listed.

#### SARA 304 Emergency release notification

Aldrin (TM) (CAS 309-00-2)

1 LBS

cis-Chlordane (CAS 5103-71-9)

1 LBS

Lindane (BHC gamma isomer) (CAS 58-89-9)

1 LBS

trans-Chlordane (CAS 5103-74-2)

1 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
Aldrin (TM)	309-00-2	1		500 lbs	10000 lbs
cis-Chlordane	5103-71-9	1	1000 lbs		
Lindane (BHC gamma isomer)	58-89-9	1		1000 lbs	10000 lbs
trans-Chlordane	5103-74-2	1	1000 lbs		

**SARA 311/312 Hazardous chemical** No

**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
n-Hexane	110-54-3	49.86
Toluene	108-88-3	49.86

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

4,4'-DDE (CAS 72-55-9)  
 4,4'-DDT (CAS 50-29-3)  
 cis-Chlordane (CAS 5103-71-9)  
 Heptachlor (CAS 76-44-8)  
 Heptachlor epoxide (Isomer B) (CAS 1024-57-3)  
 Lindane (BHC gamma isomer) (CAS 58-89-9)  
 Methoxychlor (CAS 72-43-5)  
 n-Hexane (CAS 110-54-3)  
 Toluene (CAS 108-88-3)  
 trans-Chlordane (CAS 5103-74-2)  
 Trifluralin (CAS 1582-09-8)

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

Not regulated.

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

**Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number**

Toluene (CAS 108-88-3) 6594

**Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))**

Toluene (CAS 108-88-3) 35 %WV

**DEA Exempt Chemical Mixtures Code Number**

Toluene (CAS 108-88-3) 594

**US state regulations****US - New Jersey RTK - Substances: Listed substance**

4,4'-DDE (CAS 72-55-9)  
 4,4'-DDT (CAS 50-29-3)  
 Aldrin (TM) (CAS 309-00-2)  
 cis-Chlordane (CAS 5103-71-9)  
 Dieldrin (CAS 60-57-1)  
 Heptachlor (CAS 76-44-8)  
 Heptachlor epoxide (Isomer B) (CAS 1024-57-3)  
 Lindane (BHC gamma isomer) (CAS 58-89-9)  
 Methoxychlor (CAS 72-43-5)  
 n-Hexane (CAS 110-54-3)  
 Toluene (CAS 108-88-3)  
 trans-Chlordane (CAS 5103-74-2)  
 Trifluralin (CAS 1582-09-8)



**US - Pennsylvania RTK - Hazardous Substances: Special hazard**

4,4'-DDT (CAS 50-29-3)  
Lindane (BHC gamma isomer) (CAS 58-89-9)

**US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**

Not listed.

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

4,4'-DDE (CAS 72-55-9)  
4,4'-DDT (CAS 50-29-3)  
Methoxychlor (CAS 72-43-5)  
n-Hexane (CAS 110-54-3)  
Toluene (CAS 108-88-3)

**US. Massachusetts RTK - Substance List**

4,4'-DDE (CAS 72-55-9)  
4,4'-DDT (CAS 50-29-3)  
Aldrin (TM) (CAS 309-00-2)  
cis-Chlordane (CAS 5103-71-9)  
Dieldrin (CAS 60-57-1)  
Heptachlor (CAS 76-44-8)  
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)  
Lindane (BHC gamma isomer) (CAS 58-89-9)  
Methoxychlor (CAS 72-43-5)  
n-Hexane (CAS 110-54-3)  
Toluene (CAS 108-88-3)  
trans-Chlordane (CAS 5103-74-2)  
Trifluralin (CAS 1582-09-8)

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

4,4'-DDT (CAS 50-29-3)  
Aldrin (TM) (CAS 309-00-2)  
cis-Chlordane (CAS 5103-71-9)  
Dieldrin (CAS 60-57-1)  
Heptachlor (CAS 76-44-8)  
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)  
Lindane (BHC gamma isomer) (CAS 58-89-9)  
Methoxychlor (CAS 72-43-5)  
n-Hexane (CAS 110-54-3)  
Toluene (CAS 108-88-3)  
trans-Chlordane (CAS 5103-74-2)  
Trifluralin (CAS 1582-09-8)

**US. Pennsylvania RTK - Hazardous Substances**

4,4'-DDE (CAS 72-55-9)  
4,4'-DDT (CAS 50-29-3)  
Aldrin (TM) (CAS 309-00-2)  
cis-Chlordane (CAS 5103-71-9)  
Dieldrin (CAS 60-57-1)  
Heptachlor (CAS 76-44-8)  
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)  
Lindane (BHC gamma isomer) (CAS 58-89-9)  
Methoxychlor (CAS 72-43-5)  
n-Hexane (CAS 110-54-3)  
Toluene (CAS 108-88-3)  
trans-Chlordane (CAS 5103-74-2)  
Trifluralin (CAS 1582-09-8)

**US. Pennsylvania Worker and Community Right-to-Know Law**

4,4'-DDE (CAS 72-55-9)  
4,4'-DDT (CAS 50-29-3)  
Aldrin (TM) (CAS 309-00-2)  
cis-Chlordane (CAS 5103-71-9)  
Dieldrin (CAS 60-57-1)  
Heptachlor (CAS 76-44-8)  
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)  
Lindane (BHC gamma isomer) (CAS 58-89-9)  
Methoxychlor (CAS 72-43-5)  
n-Hexane (CAS 110-54-3)

Toluene (CAS 108-88-3)  
 trans-Chlordane (CAS 5103-74-2)  
 Trifluralin (CAS 1582-09-8)

**US. Rhode Island RTK**

4,4'-DDT (CAS 50-29-3)  
 Aldrin (TM) (CAS 309-00-2)  
 cis-Chlordane (CAS 5103-71-9)  
 Dieldrin (CAS 60-57-1)  
 Heptachlor (CAS 76-44-8)  
 Heptachlor epoxide (Isomer B) (CAS 1024-57-3)  
 Lindane (BHC gamma isomer) (CAS 58-89-9)  
 Methoxychlor (CAS 72-43-5)  
 n-Hexane (CAS 110-54-3)  
 Toluene (CAS 108-88-3)  
 trans-Chlordane (CAS 5103-74-2)

**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**

4,4'-DDE (CAS 72-55-9)	Listed: January 1, 1989
4,4'-DDT (CAS 50-29-3)	Listed: October 1, 1987
Aldrin (TM) (CAS 309-00-2)	Listed: July 1, 1988
cis-Chlordane (CAS 5103-71-9)	Listed: July 1, 1988
Dieldrin (CAS 60-57-1)	Listed: July 1, 1988
Heptachlor (CAS 76-44-8)	Listed: July 1, 1988
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)	Listed: July 1, 1988
Lindane (BHC gamma isomer) (CAS 58-89-9)	Listed: October 1, 1989
trans-Chlordane (CAS 5103-74-2)	Listed: July 1, 1988

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

4,4'-DDE (CAS 72-55-9)	Listed: March 30, 2010
4,4'-DDT (CAS 50-29-3)	Listed: May 15, 1998
Heptachlor (CAS 76-44-8)	Listed: August 20, 1999
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)	Listed: August 20, 1999
o,p'-DDT (CAS 789-02-6)	Listed: May 15, 1998
Toluene (CAS 108-88-3)	Listed: January 1, 1991

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

4,4'-DDT (CAS 50-29-3)	Listed: May 15, 1998
o,p'-DDT (CAS 789-02-6)	Listed: May 15, 1998

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

4,4'-DDE (CAS 72-55-9)	Listed: March 30, 2010
4,4'-DDT (CAS 50-29-3)	Listed: May 15, 1998
o,p'-DDT (CAS 789-02-6)	Listed: May 15, 1998

**International Inventories**

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
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** 12-15-2016  
**Revision date** 12-16-2016  
**Version #** 02  
**NFPA ratings** Health: 4  
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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