

1. Identification

Product identifier	USP Method 561 Chlorinated Pesticides Mixture	
Other means of identification		
Item	M-USP561CU1	
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	Chemtec US	800-424-9300
	Chemtec outside US	+1 703-527-3887

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 2
Health hazards	Acute toxicity, oral	Category 4
	Acute toxicity, inhalation	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity (the unborn child)	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	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. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause drowsiness or dizziness. Suspected of damaging the unborn child. May cause 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: Call a poison center/doctor if you feel unwell. 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

0.03% of the mixture consists of component(s) of unknown acute oral toxicity. 0.07% 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	%
Toluene		108-88-3	99 - 100
1,2,4,5-Tetrachloro-3-nitrobenzene		117-18-0	0.01
a,b-Endosulfan		115-29-7	0.01
Alachlor		15972-60-8	0.01
BHC (mixed isomers)		608-73-1	0.01
Bromopropylate		18181-80-1	0.01
Chlordane		57-74-9	0.01
Chlorfenvinphos		470-90-6	0.01
Chlorpyrifos		2921-88-2	0.01
Chlorpyrifos Methyl		5598-13-0	0.01
Chlorthal-dimethyl		1861-32-1	0.01
DDT (mixture p,p' & o,p')		8017-34-3	0.01
Dichlofluanid		1085-98-9	0.01
Dicofol		115-32-2	0.01
Endrin		72-20-8	0.01
Heptachlor		76-44-8	0.01
Hexachlorobenzene		118-74-1	0.01
Lindane (BHC gamma isomer)		58-89-9	0.01
Methoxychlor		72-43-5	0.01
Mirex		2385-85-5	0.01
Pendimethalin		40487-42-1	0.01
Pentachloroanisole		1825-21-4	0.01
Pentachloronitrobenzene		82-68-8	0.01

Chemical name	Common name and synonyms	CAS number	%
Piperonyl butoxide		51-03-6	0.01
Procymidone		32809-16-8	0.01
Prothiophos		34643-46-4	0.01
S421		127-90-2	0.01
Tetradifon		116-29-0	0.01
Vinclozolin		50471-44-8	0.01

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. 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.
Ingestion	Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.
Most important symptoms/effects, acute and delayed	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.
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 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

Suitable extinguishing media	Water fog. 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. 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.
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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: 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
Chlordane (CAS 57-74-9)	PEL	0.5 mg/m3	
Endrin (CAS 72-20-8)	PEL	0.1 mg/m3	
Heptachlor (CAS 76-44-8)	PEL	0.5 mg/m3	
Lindane (BHC gamma isomer) (CAS 58-89-9)	PEL	0.5 mg/m3	
Methoxychlor (CAS 72-43-5)	PEL	15 mg/m3	Total dust.

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
a,b-Endosulfan (CAS 115-29-7)	TWA	0.1 mg/m3	Inhalable fraction and vapor.
Alachlor (CAS 15972-60-8)	TWA	1 mg/m3	Inhalable fraction and vapor.
Chlordane (CAS 57-74-9)	TWA	0.5 mg/m3	
Chlorpyrifos (CAS 2921-88-2)	TWA	0.1 mg/m3	Inhalable fraction and vapor.
Endrin (CAS 72-20-8)	TWA	0.1 mg/m3	
Heptachlor (CAS 76-44-8)	TWA	0.05 mg/m3	
Hexachlorobenzene (CAS 118-74-1)	TWA	0.002 mg/m3	
Lindane (BHC gamma isomer) (CAS 58-89-9)	TWA	0.5 mg/m3	
Methoxychlor (CAS 72-43-5)	TWA	10 mg/m3	
Pentachloronitrobenzene (CAS 82-68-8)	TWA	0.5 mg/m3	
Toluene (CAS 108-88-3)	TWA	20 ppm	

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
a,b-Endosulfan (CAS 115-29-7)	TWA	0.1 mg/m3
Chlordane (CAS 57-74-9)	TWA	0.5 mg/m3
Chlorpyrifos (CAS 2921-88-2)	STEL	0.6 mg/m3
	TWA	0.2 mg/m3
Endrin (CAS 72-20-8)	TWA	0.1 mg/m3
Heptachlor (CAS 76-44-8)	TWA	0.5 mg/m3
Lindane (BHC gamma isomer) (CAS 58-89-9)	TWA	0.5 mg/m3
Toluene (CAS 108-88-3)	STEL	560 mg/m3 150 ppm
	TWA	375 mg/m3 100 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
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

a,b-Endosulfan (CAS 115-29-7)	Can be absorbed through the skin.
Chlordane (CAS 57-74-9)	Can be absorbed through the skin.
Chlorpyrifos (CAS 2921-88-2)	Can be absorbed through the skin.
Endrin (CAS 72-20-8)	Can be absorbed through the skin.
Heptachlor (CAS 76-44-8)	Can be absorbed through the skin.
Hexachlorobenzene (CAS 118-74-1)	Can be absorbed through the skin.
Lindane (BHC gamma isomer) (CAS 58-89-9)	Can be absorbed through the skin.
Toluene (CAS 108-88-3)	Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

a,b-Endosulfan (CAS 115-29-7)	Skin designation applies.
Chlordane (CAS 57-74-9)	Skin designation applies.
Chlorpyrifos (CAS 2921-88-2)	Skin designation applies.
Endrin (CAS 72-20-8)	Skin designation applies.
Heptachlor (CAS 76-44-8)	Skin designation applies.

Hexachlorobenzene (CAS 118-74-1)
Lindane (BHC gamma isomer) (CAS 58-89-9)
Toluene (CAS 108-88-3)

Skin designation applies.
Skin designation applies.
Skin designation applies.

US - Tennessee OELs: Skin designation

a,b-Endosulfan (CAS 115-29-7)
Chlordane (CAS 57-74-9)
Chlorpyrifos (CAS 2921-88-2)
Endrin (CAS 72-20-8)
Heptachlor (CAS 76-44-8)
Lindane (BHC gamma isomer) (CAS 58-89-9)

Can be absorbed through the skin.
Can be absorbed through the skin.
Can be absorbed through the skin.
Can be absorbed through the skin.
Can be absorbed through the skin.
Can be absorbed through the skin.

US ACGIH Threshold Limit Values: Skin designation

a,b-Endosulfan (CAS 115-29-7)
Chlordane (CAS 57-74-9)
Chlorpyrifos (CAS 2921-88-2)
Endrin (CAS 72-20-8)
Heptachlor (CAS 76-44-8)
Hexachlorobenzene (CAS 118-74-1)
Lindane (BHC gamma isomer) (CAS 58-89-9)

Can be absorbed through the skin.
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Can be absorbed through the skin.
Can be absorbed through the skin.
Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

a,b-Endosulfan (CAS 115-29-7)
Chlordane (CAS 57-74-9)
Chlorpyrifos (CAS 2921-88-2)
Endrin (CAS 72-20-8)
Heptachlor (CAS 76-44-8)
Lindane (BHC gamma isomer) (CAS 58-89-9)

Can be absorbed through the skin.
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US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Chlordane (CAS 57-74-9)
Endrin (CAS 72-20-8)
Heptachlor (CAS 76-44-8)
Lindane (BHC gamma isomer) (CAS 58-89-9)

Can be absorbed through the skin.
Can be absorbed through the skin.
Can be absorbed through the skin.
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

Eye/face protection

Chemical respirator with organic vapor cartridge and full facepiece.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other

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

Respiratory protection

Chemical respirator with organic vapor cartridge and full facepiece.

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

-138.82 °F (-94.9 °C) estimated

Initial boiling point and boiling range

231.08 °F (110.6 °C) estimated

Flash point	40.0 °F (4.4 °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	37.86 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	896 °F (480 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.86462 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Flammable IB estimated
Oxidizing properties	Not oxidizing.
Percent volatile	99.72 % estimated
Specific gravity	0.86 estimated
VOC (Weight %)	99.73 % 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	Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Harmful 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 Harmful if inhaled. Harmful if swallowed. Narcotic effects.

Components	Species	Test Results
1,2,4,5-Tetrachloro-3-nitrobenzene (CAS 117-18-0)		
<u>Acute</u>		
Oral		
LD50	Rat	250 mg/kg
a,b-Endosulfan (CAS 115-29-7)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	90 mg/kg
	Rat	34 mg/kg
Inhalation		
LC50	Rat	0.08 mg/l, 4 Hours
Oral		
LD50	Cat	2 mg/kg
	Dog	76.7 mg/kg
	Hamster	118 mg/kg
	Mouse	7.36 mg/kg
	Rabbit	28 mg/kg
	Rat	18 mg/kg
Alachlor (CAS 15972-60-8)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	3500 mg/kg
	Rat	> 2000 mg/kg
Inhalation		
LC50	Rat	1.04 mg/l, 4 Hours
Oral		
LD50	Mouse	462 mg/kg
	Rat	790 mg/kg
BHC (mixed isomers) (CAS 608-73-1)		
<u>Acute</u>		
Dermal		
LD50	Rat	0.9 mg/kg
Oral		
LD50	Bird	56 mg/kg
	Chicken	597 mg/kg
	Mouse	59 mg/kg
	Rat	100 mg/kg
Bromopropylate (CAS 18181-80-1)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	10200 mg/kg
	Rat	> 4000 mg/kg
Oral		
LD50	Mouse	8000 mg/kg
	Rabbit	> 6000 mg/kg
	Rat	5000 mg/kg

Components	Species	Test Results
Chlordane (CAS 57-74-9)		
<u>Acute</u>		
Dermal		
LD50	Rat	590 - 840 mg/kg
Inhalation		
LC50	Cat	0.1 mg/l, 4 Hours
Oral		
LD50	Mouse	430 mg/kg
	Rabbit	300 mg/kg
	Rat	590 mg/kg
TD	Rat	25 mg/kg
Chlorfenvinphos (CAS 470-90-6)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	400 mg/kg
	Rat	31 mg/kg
Inhalation		
LC50	Rat	0.05 mg/l, 4 Hours
Oral		
LD50	Dog	> 5000 mg/kg
	Guinea pig	123 mg/kg
	Mouse	117 mg/kg
	Pigeon	16 mg/kg
	Rabbit	280 mg/kg
	Rat	9.66 mg/kg
Chlorpyrifos (CAS 2921-88-2)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	2000 mg/kg
	Rat	202 mg/kg
Inhalation		
LC50	Rat	> 0.2 mg/l, 4 Hours
Oral		
LD50	Albino rat	179 - 252 mg/kg
	Goat	500 - 1000 mg/kg
	Guinea pig	504 mg/kg
	Mouse	60 mg/kg
	Pigeon	19 - 38 mg/kg
	Rabbit	1000 mg/kg
	Rat	82 mg/kg
Chlorpyrifos Methyl (CAS 5598-13-0)		
<u>Acute</u>		
Dermal		
LD50	Rat	3713 mg/kg
Inhalation		
LC50	Rat	> 0.67 mg/l, 4 Hours
Oral		
LD50	Guinea pig	2250 mg/kg

Components	Species	Test Results
	Mouse	2032 mg/kg
	Rabbit	2000 mg/kg
	Rat	1500 mg/kg
Chlorthal-dimethyl (CAS 1861-32-1)		
Acute		
Dermal		
LD50	Rat	> 10000 mg/kg
Inhalation		
LC50	Rat	> 5 mg/l
Oral		
LD50	Rat	> 10000 mg/kg
Dicofol (CAS 115-32-2)		
Acute		
Dermal		
LD50	Mouse	> 5000 mg/kg
	Rabbit	2000 mg/kg
	Rat	100 mg/kg
Oral		
LD50	Guinea pig	1810 mg/kg
	Rabbit	1870 mg/kg
	Rat	595 mg/kg
Endrin (CAS 72-20-8)		
Acute		
Dermal		
LD50	Rabbit	60 mg/kg
	Rat	12 mg/kg
Oral		
LD50	Guinea pig	16 mg/kg
	Monkey	3 mg/kg
	Mouse	1.3 mg/kg
	Rabbit	7 - 10 mg/kg
	Rat	3 mg/kg
Heptachlor (CAS 76-44-8)		
Acute		
Dermal		
LD50	Guinea pig	116 mg/kg
	Rabbit	500 - 2000 mg/kg
	Rat	119 mg/kg
Inhalation		
LC50	Rat	200 mg/l, 4 Hours
Oral		
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
Hexachlorobenzene (CAS 118-74-1)		
<u>Acute</u>		
Oral		
LD50	Cat	1700 mg/kg
	Mouse	4000 mg/kg
	Rabbit	2600 mg/kg
	Rat	3500 mg/kg
Lindane (BHC gamma isomer) (CAS 58-89-9)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	50 mg/kg
	Rat	500 mg/kg
Inhalation		
LC50	Rat	1.56 mg/l
Oral		
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)		
<u>Acute</u>		
Oral		
LD50	Mouse	2900 mg/kg
	Rat	3460 mg/kg
Mirex (CAS 2385-85-5)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	800 mg/kg
	Rat	2000 mg/kg
Oral		
LD50	Dog	1000 mg/kg
	Hamster	125 mg/kg
	Rat	306 mg/kg
Pendimethalin (CAS 40487-42-1)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 mg/kg
Oral		
LD50	Mouse	1340 mg/kg
	Rabbit	> 5000 mg/kg
	Rat	1050 mg/kg
Pentachloroanisole (CAS 1825-21-4)		
<u>Acute</u>		
Oral		
LD50	Mouse	8.5 mg/kg

Components	Species	Test Results
Pentachloronitrobenzene (CAS 82-68-8)		
<u>Acute</u>		
Oral		
LD50	Rabbit	800 mg/kg
	Rat	265 mg/kg
Piperonyl butoxide (CAS 51-03-6)		
<u>Acute</u>		
Dermal		
LD50	-	> 2000 mg/kg
Inhalation		
LC50	Rat	> 5.2 mg/l, 4 Hours
Oral		
LD50	Cat	> 7500 mg/kg
	Dog	> 7500 mg/kg
	Mouse	2600 mg/kg
	Rabbit	2650 mg/kg
	Rat	> 2000 mg/kg
Tetradifon (CAS 116-29-0)		
<u>Acute</u>		
Inhalation		
LC50	Rat	> 3 mg/l, 4 Hours
Oral		
LD50	Dog	2000 mg/kg
	Rat	5000 mg/kg
Toluene (CAS 108-88-3)		
<u>Acute</u>		
Dermal		
LD50	Rabbit	> 5000 mg/kg 14.1 ml/kg
Inhalation		
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
Oral		
LD50	Rat	2.6 g/kg
Other		
LD50	Mouse	59 mg/kg
	Rat	1332 mg/kg
Vinclozolin (CAS 50471-44-8)		
<u>Acute</u>		
Oral		
LD50	Guinea pig	8000 mg/kg
	Mouse	> 10000 mg/kg

Components	Species	Test Results
	Rat	10000 mg/kg

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

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization

ACGIH Sensitization

Alachlor (CAS 15972-60-8) Dermal sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

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

IARC Monographs. Overall Evaluation of Carcinogenicity

BHC (mixed isomers) (CAS 608-73-1)	2B Possibly carcinogenic to humans.
Chlordane (CAS 57-74-9)	2B Possibly carcinogenic to humans.
Dicofol (CAS 115-32-2)	3 Not classifiable as to carcinogenicity to humans.
Endrin (CAS 72-20-8)	3 Not classifiable as to carcinogenicity to humans.
Heptachlor (CAS 76-44-3)	2B Possibly carcinogenic to humans.
Hexachlorobenzene (CAS 118-74-1)	2B Possibly carcinogenic to humans.
Lindane (BHC gamma isomer) (CAS 58-89-9)	2B Possibly carcinogenic to humans.
Methoxychlor (CAS 72-43-5)	3 Not classifiable as to carcinogenicity to humans.
Mirex (CAS 2385-85-5)	2B Possibly carcinogenic to humans.
Pentachloronitrobenzene (CAS 82-68-8)	3 Not classifiable as to carcinogenicity to humans.
Piperonyl butoxide (CAS 51-03-6)	3 Not classifiable as to carcinogenicity to humans.
Toluene (CAS 108-88-3)	3 Not classifiable as to carcinogenicity to humans.

US. National Toxicology Program (NTP) Report on Carcinogens

BHC (mixed isomers) (CAS 608-73-1)	Reasonably Anticipated to be a Human Carcinogen.
Hexachlorobenzene (CAS 118-74-1)	Reasonably Anticipated to be a Human Carcinogen.
Lindane (BHC gamma isomer) (CAS 58-89-9)	Reasonably Anticipated to be a Human Carcinogen.
Mirex (CAS 2385-85-5)	Reasonably Anticipated to be a Human Carcinogen.

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

Not listed.

Reproductive toxicity Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure May cause drowsiness and dizziness.

Specific target organ toxicity - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

Chronic effects May cause 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.

Components	Species	Test Results
1,2,4,5-Tetrachloro-3-nitrobenzene (CAS 117-18-0)		
Aquatic		
Fish	LC50	Threespine stickleback (Gasterosteus aculeatus) 0.279 - 2.225 mg/l, 96 hours
a,b-Endosulfan (CAS 115-29-7)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia carinata) 0.18 mg/l, 48 hours
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus) 0.0003 - 0.0004 mg/l, 96 hours

Components		Species	Test Results
Alachlor (CAS 15972-60-8)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	6 - 9.9 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	1.1 - 1.8 mg/l, 96 hours
BHC (mixed isomers) (CAS 608-73-1)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	0.68 mg/l, 48 hours
Fish	LC50	Borneo Mullet (Liza macrolepis)	0.0327 - 0.041 mg/l, 96 hours
Chlordane (CAS 57-74-9)			
Aquatic			
Crustacea	EC50	Water flea (Simocephalus serrulatus)	0.012 - 0.032 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.0048 - 0.0172 mg/l, 96 hours
Chlorfenvinphos (CAS 470-90-6)			
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	0.017 - 0.031 mg/l, 96 hours
Chlorpyrifos (CAS 2921-88-2)			
Aquatic			
Crustacea	EC50	Scud (Gammarus pulex)	0.0002 - 0.0005 mg/l, 48 hours
Fish	LC50	Tidewater silverside (Menidia peninsulae)	0.0007 - 0.0011 mg/l, 96 hours
Chlorpyrifos Methyl (CAS 5598-13-0)			
Aquatic			
Fish	LC50	Brook trout (Salvelinus fontinalis)	0.065 - 0.15 mg/l, 96 hours
Chlorthal-dimethyl (CAS 1861-32-1)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	20 - 35 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	> 100 mg/l, 96 hours
Dicofol (CAS 115-32-2)			
Aquatic			
Fish	LC50	Lake trout, siscowet (Salvelinus namaycush)	0.053 - 0.142 mg/l, 96 hours
Endrin (CAS 72-20-8)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	0.013 - 0.03 mg/l, 48 hours
Fish	LC50	Sheepshead minnow (Cyprinodon variegatus)	0.0002 - 0.0006 mg/l, 96 hours
Heptachlor (CAS 76-44-8)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	0.021 - 0.063 mg/l, 48 hours
Fish	LC50	Pinfish (Lagodon rhomboides)	0.002 - 0.0088 mg/l, 96 hours
Hexachlorobenzene (CAS 118-74-1)			
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1 mg/l, 96 hours
Lindane (BHC gamma isomer) (CAS 58-89-9)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	0.386 - 0.547 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.02 - 0.027 mg/l, 96 hours

Components	Species		Test Results
Methoxychlor (CAS 72-43-5)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	0.0006 - 0.0011 mg/l, 48 hours
Fish	LC50	Brook trout (Salvelinus fontinalis)	0.007 - 0.017 mg/l, 96 hours
Mirex (CAS 2385-85-5)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	> 0.1 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	> 20 mg/l, 96 hours
Pendimethalin (CAS 40487-42-1)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	> 0.05 mg/l, 96 hours
Pentachloroanisole (CAS 1825-21-4)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	0.0209 - 0.0365 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	0.5 - 0.84 mg/l, 96 hours
Piperonyl butoxide (CAS 51-03-6)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.0027 - 0.0043 mg/l, 96 hours
Prothiophos (CAS 34643-46-4)			
Aquatic			
Fish	LC50	Goldfish (Carassius auratus)	6 - 20 mg/l, 96 hours
Tetradifon (CAS 116-29-0)			
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	0.664 - 1.166 mg/l, 96 hours
Toluene (CAS 108-88-3)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	5.46 - 9.83 mg/l, 48 hours
Fish	LC50	Coho salmon,silver salmon (Oncorhynchus kisutch)	8.11 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)

a,b-Endosulfan	3.83
Chlordane	5.16
Chlorfenvinphos	3.81
Chlorpyrifos	5.27
Chlorpyrifos Methyl	4.31
Chlorthal-dimethyl	4.4
Dicofol	4.28
Endrin	5.2
Heptachlor	6.1
Hexachlorobenzene	5.73
Lindane (BHC gamma isomer)	3.72
Methoxychlor	5.08
Mirex	5.28
Piperonyl butoxide	4.75
Tetradifon	4.72
Toluene	2.73
Vinclozolin	3.1

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

a,b-Endosulfan (CAS 115-29-7)	P050
Endrin (CAS 72-20-8)	P051
Heptachlor (CAS 76-44-8)	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

UN number	UN1294
UN proper shipping name	Toluene, solution (Toluene RQ = 1003 LBS), 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, T4, TP1
Packaging exceptions	150
Packaging non bulk	202
Packaging bulk	242

IATA

UN number	UN1294
UN proper shipping name	Toluene solution (Toluene)
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.
Cargo aircraft only	Allowed.

IMDG

UN number	UN1294
UN proper shipping name	TOLUENE SOLUTION (Toluene), 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
Transport in bulk according to
Annex II of MARPOL 73/78 and
the IBC Code

Read safety instructions, SDS and emergency procedures before handling.
Not established.

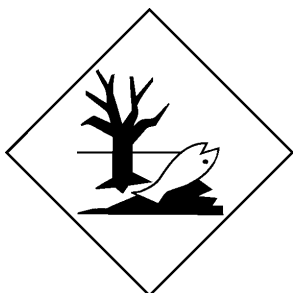
DOT



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)

Endrin (CAS 72-20-8)

1.0 % One-Time Export Notification only.

CERCLA Hazardous Substance List (40 CFR 302.4)

a,b-Endosulfan (CAS 115-29-7)	Listed.
BHC (mixed isomers) (CAS 608-73-1)	Listed.
Chlordane (CAS 57-74-9)	Listed.
Chlorpyrifos (CAS 2921-88-2)	Listed.
Dicofol (CAS 115-32-2)	Listed.
Endrin (CAS 72-20-8)	Listed.
Heptachlor (CAS 76-44-8)	Listed.
Hexachlorobenzene (CAS 118-74-1)	Listed.
Lindane (BHC gamma isomer) (CAS 58-89-9)	Listed.
Methoxychlor (CAS 72-43-5)	Listed.
Pentachloronitrobenzene (CAS 82-68-8)	Listed.
Toluene (CAS 108-88-3)	Listed.

SARA 304 Emergency release notification

a,b-Endosulfan (CAS 115-29-7)	1 LBS
Chlordane (CAS 57-74-9)	1 LBS
Chlorfenvinphos (CAS 470-90-6)	500 LBS
Endrin (CAS 72-20-8)	1 LBS
Lindane (BHC gamma isomer) (CAS 58-89-9)	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
a,b-Endosulfan	115-29-7	1		10 lbs	10000 lbs
Chlordane	57-74-9	1	1000 lbs		
Chlorfenvinphos	470-90-6	500	500 lbs		
Endrin	72-20-8	1		500 lbs	10000 lbs
Lindane (BHC gamma isomer)	58-89-9	1		1000 lbs	10000 lbs

SARA 311/312 Hazardous chemical No**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Toluene	108-88-3	99 - 100

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

Chlordane (CAS 57-74-9)
 Dicofol (CAS 115-32-2)
 Heptachlor (CAS 76-44-8)
 Hexachlorobenzene (CAS 118-74-1)
 Lindane (BHC gamma isomer) (CAS 58-89-9)
 Methoxychlor (CAS 72-43-5)
 Pentachloronitrobenzene (CAS 82-68-8)
 Toluene (CAS 108-88-3)

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**

a,b-Endosulfan (CAS 115-29-7)
 Alachlor (CAS 15972-60-8)
 BHC (mixed isomers) (CAS 608-73-1)
 Chlordane (CAS 57-74-9)
 Chlorfenvinphos (CAS 470-90-6)
 Chlorpyrifos (CAS 2921-88-2)
 Chlorpyrifos Methyl (CAS 5598-13-0)
 Dicofol (CAS 115-32-2)

Endrin (CAS 72-20-8)
Heptachlor (CAS 76-44-8)
Hexachlorobenzene (CAS 118-74-1)
Lindane (BHC gamma isomer) (CAS 58-89-9)
Methoxychlor (CAS 72-43-5)
Mirex (CAS 2385-85-5)
Pendimethalin (CAS 40487-42-1)
Pentachloronitrobenzene (CAS 82-68-8)
Piperonyl butoxide (CAS 51-03-6)
Toluene (CAS 108-88-3)
Vinclozolin (CAS 50471-44-8)

US - Pennsylvania RTK - Hazardous Substances: Special hazard

BHC (mixed isomers) (CAS 608-73-1)
Hexachlorobenzene (CAS 118-74-1)
Lindane (BHC gamma isomer) (CAS 58-89-9)
Mirex (CAS 2385-85-5)

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))

Dicofol (CAS 115-32-2)
Methoxychlor (CAS 72-43-5)
Toluene (CAS 108-88-3)

US. Massachusetts RTK - Substance List

a,b-Endosulfan (CAS 115-29-7)
BHC (mixed isomers) (CAS 608-73-1)
Chlordane (CAS 57-74-9)
Chlorfenvinphos (CAS 470-90-6)
Chlorpyrifos (CAS 2921-88-2)
Dicofol (CAS 115-32-2)
Endrin (CAS 72-20-8)
Heptachlor (CAS 76-44-8)
Hexachlorobenzene (CAS 118-74-1)
Lindane (BHC gamma isomer) (CAS 58-89-9)
Methoxychlor (CAS 72-43-5)
Mirex (CAS 2385-85-5)
Pentachloronitrobenzene (CAS 82-68-8)
Toluene (CAS 108-88-3)

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

a,b-Endosulfan (CAS 115-29-7)
Alachlor (CAS 15972-60-8)
Chlordane (CAS 57-74-9)
Chlorfenvinphos (CAS 470-90-6)
Chlorpyrifos Methyl (CAS 5598-13-0)
Dicofol (CAS 115-32-2)
Endrin (CAS 72-20-8)
Heptachlor (CAS 76-44-8)
Hexachlorobenzene (CAS 118-74-1)
Lindane (BHC gamma isomer) (CAS 58-89-9)
Methoxychlor (CAS 72-43-5)
Mirex (CAS 2385-85-5)
Pendimethalin (CAS 40487-42-1)
Pentachloronitrobenzene (CAS 82-68-8)
Piperonyl butoxide (CAS 51-03-6)
Toluene (CAS 108-88-3)
Vinclozolin (CAS 50471-44-8)

US. Pennsylvania RTK - Hazardous Substances

a,b-Endosulfan (CAS 115-29-7)
BHC (mixed isomers) (CAS 608-73-1)
Chlordane (CAS 57-74-9)
Chlorfenvinphos (CAS 470-90-6)
Chlorpyrifos (CAS 2921-88-2)
Dicofol (CAS 115-32-2)
Endrin (CAS 72-20-8)

Heptachlor (CAS 76-44-8)
Hexachlorobenzene (CAS 118-74-1)
Lindane (BHC gamma isomer) (CAS 58-89-9)
Methoxychlor (CAS 72-43-5)
Mirex (CAS 2385-85-5)
Pentachloronitrobenzene (CAS 82-68-8)
Toluene (CAS 108-88-3)

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

a,b-Endosulfan (CAS 115-29-7)
Chlordane (CAS 57-74-9)
Chlorfenvinphos (CAS 470-90-6)
Chlorpyrifos (CAS 2921-88-2)
Dicofol (CAS 115-32-2)
Endrin (CAS 72-20-8)
Heptachlor (CAS 76-44-8)
Hexachlorobenzene (CAS 118-74-1)
Lindane (BHC gamma isomer) (CAS 58-89-9)
Methoxychlor (CAS 72-43-5)
Pentachloronitrobenzene (CAS 82-68-8)
Toluene (CAS 108-88-3)

US. Rhode Island RTK

a,b-Endosulfan (CAS 115-29-7)
Alachlor (CAS 15972-60-8)
BHC (mixed isomers) (CAS 608-73-1)
Chlordane (CAS 57-74-9)
Chlorfenvinphos (CAS 470-90-6)
Chlorpyrifos (CAS 2921-88-2)
Chlorpyrifos Methyl (CAS 5598-13-0)
Dicofol (CAS 115-32-2)
Endrin (CAS 72-20-8)
Heptachlor (CAS 76-44-8)
Hexachlorobenzene (CAS 118-74-1)
Lindane (BHC gamma isomer) (CAS 58-89-9)
Methoxychlor (CAS 72-43-5)
Pendimethalin (CAS 40487-42-1)
Pentachloronitrobenzene (CAS 82-68-8)
Piperonyl butoxide (CAS 51-03-6)
Toluene (CAS 108-88-3)
Vinclozolin (CAS 50471-44-8)

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

Alachlor (CAS 15972-60-8)	Listed: January 1, 1989
BHC (mixed isomers) (CAS 608-73-1)	Listed: October 1, 1987
Chlordane (CAS 57-74-9)	Listed: July 1, 1988
Heptachlor (CAS 76-44-8)	Listed: July 1, 1988
Hexachlorobenzene (CAS 118-74-1)	Listed: October 1, 1987
Lindane (BHC gamma isomer) (CAS 58-89-9)	Listed: October 1, 1989
Mirex (CAS 2385-85-5)	Listed: January 1, 1988
Procymidone (CAS 32809-16-8)	Listed: October 1, 1994
Vinclozolin (CAS 50471-44-8)	Listed: August 20, 1999

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

Endrin (CAS 72-20-8)	Listed: May 15, 1998
Heptachlor (CAS 76-44-8)	Listed: August 20, 1999
Hexachlorobenzene (CAS 118-74-1)	Listed: January 1, 1989
Toluene (CAS 108-88-3)	Listed: January 1, 1991
Vinclozolin (CAS 50471-44-8)	Listed: May 15, 1998

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

Toluene (CAS 108-88-3)	Listed: August 7, 2009
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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	05-12-2016
Revision date	05-13-2016
Version #	02
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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