SAFETY DATA SHEET



1. Identification

Product identifier European Regulation Standards Pesticide Mixture 1

Other means of identification

ItemM-EUPESTMIX1U10Recommended useFor 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 hazardsFlammable liquidsCategory 2Health hazardsAcute toxicity, oralCategory 4Acute toxicity, inhalationCategory 4Skin corrosion/irritationCategory 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

Hazardous to the aquatic environment, acute Category 1

hazard

Hazardous to the aquatic environment,

long-term hazard

OSHA defined hazards Not classified.

Label elements

Environmental hazards



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

Category 2

Category 2

aquatic life. 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

0.01% of the mixture consists of component(s) of unknown acute oral toxicity. 0.01% of the mixture consists of component(s) of unknown acute inhalation toxicity.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Toluene		108-88-3	99.98
1,2,4,5-Tetrachloro-3-nitrobenzene		117-18-0	0.001
4,4'-DDD		72-54-8	0.001
4,4'-DDE		72-55-9	0.001
4,4'-DDT		50-29-3	0.001
Aldrin (TM)		309-00-2	0.001
BHC (alpha isomer)		319-84-6	0.001
BHC (beta isomer)		319-85-7	0.001
BHC (delta isomer)		319-86-8	0.001
Endrin		72-20-8	0.001
Heptachlor		76-44-8	0.001
Heptachlor epoxide (Isomer B)		1024-57-3	0.001
Hexachlorobenzene		118-74-1	0.001
Lindane (BHC gamma isomer)		58-89-9	0.001
o,p'-DDD		53-19-0	0.001
o,p'-DDE		3424-82-6	0.001
o,p'-DDT		789-02-6	0.001
Pyrazon		1698-60-8	0.001
Tetrachlorvinphos		22248-79-9	0.001
trans-Heptachlor epoxide		28044-83-9	0.001

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

Ingestion

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.

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 (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. This product is a poor conductor of electricity and can become electrostatically charged. If sufficient charge is accumulated, ignition of flammable mixtures can occur. To reduce potential for static discharge, use proper bonding and grounding procedures. This liquid may accumulate static electricity when filling properly grounded containers. Static electricity accumulation may be significantly increased by the presence of small quantities of water or other contaminants. Material will float and may ignite on surface of water. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods General fire hazards Use standard firefighting procedures and consider the hazards of other involved materials.

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.

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 1910.1	1000)	
Components	Туре	Value	
4,4'-DDT (CAS 50-29-3)	PEL	1 mg/m3	
Aldrin (TM) (CAS 309-00-2)	PEL	0.25 mg/m3	
Endrin (CAS 72-20-8)	PEL	0.1 mg/m3	
Heptachlor (CAS 76-44-8)	PEL	0.5 mg/m3	
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)	PEL	0.5 mg/m3	
Lindane (BHC gamma isomer) (CAS 58-89-9)	PEL	0.5 mg/m3	
US. OSHA Table Z-2 (29 CFR 1910.	1000)		
Components	Туре	Value	
Toluene (CAS 108-88-3)	Ceiling	300 ppm	
	TWA	200 ppm	
US. ACGIH Threshold Limit Values	•		
Components	Туре	Value	Form
4,4'-DDT (CAS 50-29-3)	TWA	1 mg/m3	
Aldrin (TM) (CAS 309-00-2)	TWA	0.05 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	
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)	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	

US. ACGIH Threshold Lin Components	int values	Туре		Va	alue	Form
Toluene (CAS 108-88-3)		TWA		20) ppm	
US. NIOSH: Pocket Guide	e to Chemical I	Hazards				
Components		Type		Va	alue	
4,4'-DDT (CAS 50-29-3)		TWA		0.	5 mg/m3	
Aldrin (TM) (CAS 309-00-2	2)	TWA		0.	25 mg/m3	
Endrin (CAS 72-20-8)		TWA		0.	1 mg/m3	
Heptachlor (CAS 76-44-8)		TWA		0.	5 mg/m3	
Heptachlor epoxide (Isome B) (CAS 1024-57-3)	er	TWA		0.	5 mg/m3	
Lindane (BHC gamma isomer) (CAS 58-89-9)		TWA		0.	5 mg/m3	
Toluene (CAS 108-88-3)		STEL		56	60 mg/m3	
				15	50 ppm	
		TWA		37	75 mg/m3	
				10	00 ppm	
ogical limit values						
ACGIH Biological Expos	ure Indices					
Components	Value		Determinant	Specimen	Sampling Tim	е
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	*	

Bio

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

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. Endrin (CAS 72-20-8) 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. 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

Aldrin (TM) (CAS 309-00-2) Skin designation applies. Endrin (CAS 72-20-8) Skin designation applies. Heptachlor (CAS 76-44-8) Skin designation applies. Heptachlor epoxide (Isomer B) (CAS 1024-57-3) Skin designation applies. Skin designation applies. Hexachlorobenzene (CAS 118-74-1) Skin designation applies. Lindane (BHC gamma isomer) (CAS 58-89-9) Toluene (CAS 108-88-3) 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. Endrin (CAS 72-20-8) 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.

US ACGIH Threshold Limit Values: Skin designation

Aldrin (TM) (CAS 309-00-2) 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. Heptachlor epoxide (Isomer B) (CAS 1024-57-3) 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.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

Aldrin (TM) (CAS 309-00-2) Can be absorbed through the skin. Endrin (CAS 72-20-8) Can be absorbed through the skin. Heptachlor (CAS 76-44-8)

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

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

Can be absorbed through the skin.

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)

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

Endrin (CAS 72-20-8)

Heptachlor (CAS 76-44-8)

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

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

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 protectionChemical 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.

ColorNot available.OdorNot available.Odor thresholdNot available.pHNot available.

Melting point/freezing point -138.82 °F (-94.9 °C) estimated Initial boiling point and boiling 231.08 °F (110.6 °C) estimated

range

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 densityNot available.Relative densityNot 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.

Not available.

Other information

Viscosity

Density 0.86359 g/cm3 estimated

Explosive properties Not explosive.

Flammability class Flammable IB estimated

Oxidizing properties Not oxidizing.

Percent volatile 99.98 % estimated

Specific gravity 0.86 estimated

VOC (Weight %) 99.98 % estimated

10. Stability and reactivity

ReactivityThe 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

Hazardous polymerization does not occur.

reactions

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

4,4'-DDD (CAS 72-54-8)

Acute Dermal

LD50 Rabbit 1200 mg/kg

Oral

LD50 Mouse 1466 mg/kg

Rat 113 mg/kg

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

<u>Acute</u>

Oral

LD50 Mouse 700 mg/kg

Components	Species	Test Results
4 41 DDT (040 50 00 0)	Rat	880 mg/kg
4,4'-DDT (CAS 50-29-3)		
<u>Acute</u> Dermal		
LD50	Guinea pig	1000 mg/kg
	Mouse	250 mg/kg
	Rabbit	300 mg/kg
	Rat	1931 mg/kg
Oral	Nat	100 i Higrikg
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 200 00 2)	Sileep	> 1000 Hig/kg
Aldrin (TM) (CAS 309-00-2) <u>Acute</u>		
<u> Dermal</u>		
LD50	Rabbit	150 mg/kg
	Rat	98 mg/kg
Oral		3 3
LD50	Mouse	44 mg/kg
	Rat	39 mg/kg
BHC (alpha isomer) (CAS 319-84-6)	
<u>Acute</u>	,	
Dermal		
LD50	Rat	0.9 mg/kg
Oral		
LD50	Rat	177 mg/kg
BHC (beta isomer) (CAS 319-85-7)		
Acute		
Dermal	Det	0.0 mg/kg
LD50	Rat	0.9 mg/kg
Oral LD50	Mouse	1500 mg/kg
LD30	Rat	6 g/kg
DUC (dolta inamar) (CAS 210 96 9)		o g/kg
BHC (delta isomer) (CAS 319-86-8) <u>Acute</u>		
<u>Acute</u> Dermal		
LD50	Rat	0.9 mg/kg
Oral		5 5
LD50	Rat	1000 mg/kg
Endrin (CAS 72-20-8)		
Acute		
Dermal		
LD50	Rabbit	60 mg/kg
	Rat	12 mg/kg

omponents	Species	Test Results
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
eptachlor (CAS 76-44-8)		
<u>Acute</u>		
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
eptachlor epoxide (Isomer		3 3
<u>Acute</u>	-, (
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
exachlorobenzene (CAS 1		_5 mg/ng
Acute	,	
Oral Oral		
LD50	Cat	1700 mg/kg
	Mouse	4000 mg/kg
	Rappit	2000 Mg/kg
	Rabbit Rat	2600 mg/kg 3500 mg/kg

Components **Species Test Results** Lindane (BHC gamma isomer) (CAS 58-89-9) **Acute** 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 360 mg/kg Hamster Mouse 44 mg/kg Rabbit 50 mg/kg Rat 76 mg/kg Pyrazon (CAS 1698-60-8) **Acute** Oral 760 mg/kg LD50 Guinea pig Mouse 1000 mg/kg Rabbit 1250 mg/kg 647 mg/kg Rat Tetrachlorvinphos (CAS 22248-79-9) **Acute Dermal** LD50 Mouse > 7500 mg/kg Rat > 10000 mg/kg Toluene (CAS 108-88-3) **Acute 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 Rat LD50 2.6 g/kg Other LD50 Mouse 59 mg/kg Rat 1332 mg/kg

Skin corrosion/irritation Causes skin irritation.

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

Serious eve damage/eve

irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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

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

mutagenic or genotoxic.

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

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.

BHC (alpha isomer) (CAS 319-84-6) 2B Possibly carcinogenic to humans. BHC (beta isomer) (CAS 319-85-7) 2B Possibly carcinogenic to humans. BHC (delta isomer) (CAS 319-86-8) 2B Possibly carcinogenic to humans.

Endrin (CAS 72-20-8) 3 Not classifiable as to carcinogenicity to humans.

2B Possibly carcinogenic to humans. Heptachlor (CAS 76-44-8) Heptachlor epoxide (Isomer B) (CAS 1024-57-3) 2B Possibly carcinogenic to humans. Hexachlorobenzene (CAS 118-74-1) 2B Possibly carcinogenic to humans.

Lindane (BHC gamma isomer) (CAS 58-89-9) 1 Carcinogenic to humans.

Tetrachlorvinphos (CAS 22248-79-9) 2B Possibly carcinogenic to humans.

Toluene (CAS 108-88-3) 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. BHC (alpha isomer) (CAS 319-84-6) Reasonably Anticipated to be a Human Carcinogen. BHC (beta isomer) (CAS 319-85-7) Reasonably Anticipated to be a Human Carcinogen. BHC (delta isomer) (CAS 319-86-8) 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.

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

Not listed.

Suspected of damaging the unborn child. Reproductive toxicity Specific target organ toxicity -May cause drowsiness and dizziness.

single exposure

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

Crustacea

Fish

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. **Ecotoxicity**

Components		Species	Test Results
1,2,4,5-Tetrachloro-3-nitrol	penzene (CAS	117-18-0)	
Aquatic			
Fish	LC50	Threespine stickleback (Gasterosteus aculeatus)	0.279 - 2.225 mg/l, 96 hours
4,4'-DDD (CAS 72-54-8)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	0.0023 - 0.0044 mg/l, 48 hours
Fish	LC50	Walleye (Stizostedion vitreum vitreum)	0.011 - 0.019 mg/l, 96 hours
4,4'-DDE (CAS 72-55-9)			
Aquatic			

Brown shrimp (Penaeus aztecus)

Rainbow trout, donaldson trout

(Oncorhynchus mykiss)

Material name: European Regulation Standards Pesticide Mixture 1

M-EUPESTMIX1U10 Version #: 01 Issue date: 05-05-2017

FC50

LC50

0.028 mg/l, 48 hours

0.026 - 0.04 mg/l, 96 hours

Components		Species	Test Results
4,4'-DDT (CAS 50-29-3)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	0.0005 - 0.001 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	0.0013 - 0.002 mg/l, 96 hours
Aldrin (TM) (CAS 309-0	0-2)		
Aquatic			
Crustacea	EC50	Ostracod, Seed shrimp (Cypridopsis vidua)	0.015 - 0.021 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.0023 - 0.0045 mg/l, 96 hours
BHC (alpha isomer) (CA	AS 319-84-6)		
Aquatic	5050	W (
Crustacea	EC50	Water flea (Daphnia magna)	0.6 - 1 mg/l, 48 hours
Fish	LC50	Zebra danio (Danio rerio)	0.82 - 1.51 mg/l, 96 hours
BHC (beta isomer) (CA:	S 319-85-7)		
Crustacea	EC50	Water flea (Daphnia pulex)	0.68 mg/l, 48 hours
Fish	LC50	Guppy (Poecilia reticulata)	1 - 3.55 mg/l, 96 hours
BHC (delta isomer) (CA	S 319-86-8)		
Aquatic	,		
Crustacea	EC50	Water flea (Daphnia pulex)	0.68 mg/l, 48 hours
Fish	LC50	Zebra danio (Danio rerio)	1.15 - 2.17 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
Heptachlor epoxide (Isc	mer B) (CAS 102	4-57-3)	
Aquatic			
Crustacea	EC50	Water flea (Daphnia pulex)	0.021 - 0.063 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	0.0039 - 0.0072 mg/l, 96 hours
Hexachlorobenzene (C/	AS 118-74-1)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	> 1 mg/l, 96 hours
Lindane (BHC gamma i	somer) (CAS 58-8	39-9)	
Aquatic	5050	W (0.000 0.545 # 40.1
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
Tetrachlorvinphos (CAS Aquatic	8 22248-79-9)		
Crustacea	EC50	Northern pink shrimp (Penaeus duorarum)	0.28 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout	0.332 - 0.557 mg/l, 96 hours

Components Species Test Results

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 8.11 mg/l, 96 hours

(Oncorhynchus kisutch)

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

4,4'-DDD	6.02
4,4'-DDE	6.51
4,4'-DDT	6.91
Aldrin (TM)	6.5
BHC (alpha isomer)	3.8
BHC (beta isomer)	3.78
BHC (delta isomer)	4.14
Endrin	5.2
Heptachlor	6.1
Heptachlor epoxide (Isomer B)	5.4
Hexachlorobenzene	5.73
Lindane (BHC gamma isomer)	3.72
Pyrazon	1.14
Tetrachlorvinphos	3.53
Toluene	2.73

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 instructionsCollect 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
Endrin (CAS 72-20-8) P051
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

UN number UN1294

UN proper shipping name Toluene, solution (Toluene RQ = 1000 LBS), MARINE POLLUTANT

Transport hazard class(es)

Class 3
Subsidiary risk Label(s) 3
Packing group II

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

Environmental hazards

Marine pollutant Yes

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IB2, T4, TP1 **Special provisions**

Packaging exceptions 150 Packaging non bulk 202 Packaging bulk 242

IATA

UN1294 **UN** number

UN proper shipping name Toluene solution (Toluene)

Transport hazard class(es)

Class 3 Subsidiary risk П Packing group **Environmental hazards** Yes **ERG Code** 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo Allowed.

aircraft

Cargo aircraft only Allowed.

IMDG

UN1294 **UN** number

TOLUENE SOLUTION (Toluene), MARINE POLLUTANT UN proper shipping name

Transport hazard class(es)

3 Class Subsidiary risk П Packing group **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

Not established.

Annex II of MARPOL 73/78 and the IBC Code

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)

Endrin (CAS 72-20-8)

0.1 % One-Time Export Notification only.
1.0 % One-Time Export Notification only.

CERCLA Hazardous Substance List (40 CFR 302.4)

4,4'-DDD (CAS 72-54-8)	Listed.
4,4'-DDE (CAS 72-55-9)	Listed.
4,4'-DDT (CAS 50-29-3)	Listed.
Aldrin (TM) (CAS 309-00-2)	Listed.
BHC (alpha isomer) (CAS 319-84-6)	Listed.
BHC (beta isomer) (CAS 319-85-7)	Listed.
BHC (delta isomer) (CAS 319-86-8)	Listed.
Endrin (CAS 72-20-8)	Listed.
Heptachlor (CAS 76-44-8)	Listed.
Heptachlor epoxide (Isomer B) (CAS 1024-57-3)	Listed.
Hexachlorobenzene (CAS 118-74-1)	Listed.
Lindane (BHC gamma isomer) (CAS 58-89-9)	Listed.
Toluene (CAS 108-88-3)	Listed.
DA 004 E	

SARA 304 Emergency release notification

 Aldrin (TM) (CAS 309-00-2)
 1 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
Aldrin (TM)	309-00-2	1		500 lbs	10000 lbs
Endrin	72-20-8	1		500 lbs	10000 lbs
Lindane (BHC gamma isomer)	58-89-9	1		1000 lbs	10000 lbs
CADA 244/242 Homer	daua No				

SARA 311/312 Hazardous N

chemical

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
Toluene	108-88-3	99.98	

Other federal regulations

```
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
        4,4'-DDD (CAS 72-54-8)
        4,4'-DDE (CAS 72-55-9)
        4,4'-DDT (CAS 50-29-3)
        Heptachlor (CAS 76-44-8)
        Heptachlor epoxide (Isomer B) (CAS 1024-57-3)
        Hexachlorobenzene (CAS 118-74-1)
        Lindane (BHC gamma isomer) (CAS 58-89-9)
        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
                                Not regulated.
    (SDWA)
        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
                                                              594
            Toluene (CAS 108-88-3)
US state regulations
    US - New Jersey RTK - Substances: Listed substance
        4,4'-DDD (CAS 72-54-8)
        4,4'-DDE (CAS 72-55-9)
        4,4'-DDT (CAS 50-29-3)
        Aldrin (TM) (CAS 309-00-2)
        BHC (alpha isomer) (CAS 319-84-6)
        BHC (beta isomer) (CAS 319-85-7)
        BHC (delta isomer) (CAS 319-86-8)
        Endrin (CAS 72-20-8)
        Heptachlor (CAS 76-44-8)
        Heptachlor epoxide (Isomer B) (CAS 1024-57-3)
        Hexachlorobenzene (CAS 118-74-1)
        Lindane (BHC gamma isomer) (CAS 58-89-9)
        Tetrachlorvinphos (CAS 22248-79-9)
        Toluene (CAS 108-88-3)
    US - Pennsylvania RTK - Hazardous Substances: Special hazard
        4,4'-DDT (CAS 50-29-3)
        BHC (alpha isomer) (CAS 319-84-6)
        BHC (beta isomer) (CAS 319-85-7)
        BHC (delta isomer) (CAS 319-86-8)
        Hexachlorobenzene (CAS 118-74-1)
        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.
        4.4'-DDD (CAS 72-54-8)
        4,4'-DDE (CAS 72-55-9)
        4,4'-DDT (CAS 50-29-3)
        Toluene (CAS 108-88-3)
    US. Massachusetts RTK - Substance List
        4,4'-DDD (CAS 72-54-8)
        4,4'-DDE (CAS 72-55-9)
        4,4'-DDT (CAS 50-29-3)
        Aldrin (TM) (CAS 309-00-2)
        BHC (alpha isomer) (CAS 319-84-6)
        BHC (beta isomer) (CAS 319-85-7)
        BHC (delta isomer) (CAS 319-86-8)
        Endrin (CAS 72-20-8)
```

Heptachlor (CAS 76-44-8)

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

Hexachlorobenzene (CAS 118-74-1)

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

Tetrachlorvinphos (CAS 22248-79-9)

Toluene (CAS 108-88-3)

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

4.4'-DDT (CAS 50-29-3)

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

BHC (alpha isomer) (CAS 319-84-6)

Endrin (CAS 72-20-8)

Heptachlor (CAS 76-44-8)

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

Hexachlorobenzene (CAS 118-74-1)

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

Tetrachlorvinphos (CAS 22248-79-9)

Toluene (CAS 108-88-3)

US. Pennsylvania RTK - Hazardous Substances

4,4'-DDD (CAS 72-54-8)

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

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

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

BHC (alpha isomer) (CAS 319-84-6)

BHC (beta isomer) (CAS 319-85-7)

BHC (delta isomer) (CAS 319-86-8)

Endrin (CAS 72-20-8)

Heptachlor (CAS 76-44-8)

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

Hexachlorobenzene (CAS 118-74-1)

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

Tetrachlorvinphos (CAS 22248-79-9)

Toluene (CAS 108-88-3)

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

4,4'-DDD (CAS 72-54-8)

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

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

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

BHC (alpha isomer) (CAS 319-84-6)

BHC (beta isomer) (CAS 319-85-7)

BHC (delta isomer) (CAS 319-86-8)

Endrin (CAS 72-20-8)

Heptachlor (CAS 76-44-8)

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

Hexachlorobenzene (CAS 118-74-1)

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

Tetrachlorvinphos (CAS 22248-79-9)

Toluene (CAS 108-88-3)

US. Rhode Island RTK

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

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

BHC (alpha isomer) (CAS 319-84-6)

BHC (beta isomer) (CAS 319-85-7)

BHC (delta isomer) (CAS 319-86-8)

Endrin (CAS 72-20-8)

Heptachlor (CAS 76-44-8)

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

Hexachlorobenzene (CAS 118-74-1)

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

Toluene (CAS 108-88-3)

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'-DDD (CAS 72-54-8) Listed: January 1, 1989 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 BHC (alpha isomer) (CAS 319-84-6) Listed: October 1, 1989 BHC (beta isomer) (CAS 319-85-7) Listed: October 1, 1989 BHC (delta isomer) (CAS 319-86-8) Listed: October 1, 1987 Heptachlor (CAS 76-44-8) Listed: July 1, 1988 Heptachlor epoxide (Isomer B) (CAS 1024-57-3) 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 Tetrachlorvinphos (CAS 22248-79-9) Listed: May 20, 2016

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 Endrin (CAS 72-20-8) Listed: May 15, 1998 Listed: August 20, 1999 Heptachlor (CAS 76-44-8) Heptachlor epoxide (Isomer B) (CAS 1024-57-3) Listed: August 20, 1999 Hexachlorobenzene (CAS 118-74-1) Listed: January 1, 1989 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

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

^{*}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).

Toxic Substances Control Act (TSCA) Inventory

16. Other information, including date of preparation or last revision

05-05-2017 Issue date

Version # 01

United States & Puerto Rico

NFPA ratings Health: 2

> Flammability: 3 Instability: 0

No

Disclaimer

The above information is believed to be correct on the date it was last revised and must not be considered all inclusive. The information has been obtained only by a search of available literature and is only a guide for handling the chemicals. OSHA regulations require that if other hazards become evident, an upgraded SDS must be made available to the employee within three months. RESPONSIBILITY for updates lies with the employer and not with CHEM SERVICE, Inc.

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This Safety Data Sheet (SDS) is intended only for use with Chem Service, Inc. products and should not be relied on for use with materials from any other supplier even if the chemical name(s) on the product are identical! Whenever using an SDS for a solution or mixture the user should refer to the SDS for every component of the solution or mixture. Chem Service warrants that this SDS is based upon the most current information available to Chem Service at the time it was last revised. THIS WARRANTY IS EXCLUSIVE, AND CHEM SERVICE, INC. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. This SDS is provided gratis and CHEM SERVICE, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR CONTINGENT DAMAGES.

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