# SAFETY DATA SHEET

# GHEMSERVIGE .....

# 1. Identification

Product identifier     European Regulation Standards Pesticide Mixture 3       Other means of identification     M-EUPESTMIX3U99       Item     M-EUPESTMIX3U99       Recommended use     For Laboratory Use Only       Recommended restrictions     None known.       Manufacturer/Importer/Supplier/Distributor information       Manufacturer       Company name     Chem Service, Inc.
ItemM-EUPESTMIX3U99Recommended useFor Laboratory Use OnlyRecommended restrictionsNone known.Manufacturer/Importer/Supplier/Distributor informationManufacturerCompany nameChem Service, Inc.
Recommended use     For Laboratory Use Only       Recommended restrictions     None known.       Manufacturer/Importer/Supplier/Distributor information       Manufacturer       Company name     Chem Service, Inc.
Recommended restrictions       None known.         Manufacturer/Importer/Supplier/Distributor information         Manufacturer         Company name       Chem Service, Inc.
Manufacturer/Importer/Supplier/Distributor information Manufacturer Company name Chem Service, Inc.
Manufacturer       Company name       Chem Service, Inc.
Company name Chem Service, Inc.
Address 660 Tower Lane
West Chester, PA 19380 United States
TelephoneToll Free800-452-9994
Direct 610-692-3026
Website www.chemservice.com
E-mail info@chemservice.com
Emergency phone numberChemtrec US800-424-9300
Chemtrec outside US +1 703-527-3887
2. Hazard(s) identification
Physical hazards         Flammable liquids         Category 2
Health hazards         Acute toxicity, oral         Category 4
Acute toxicity, inhalation Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Reproductive toxicity Category 1A
Specific target organ toxicity, single exposure Category 3 narcotic effects
Specific target organ toxicity, repeated Category 2 exposure
Aspiration hazard Category 1
Environmental hazards Hazardous to the aquatic environment, acute Category 1 hazard
Hazardous to the aquatic environment, Category 1 long-term hazard
OSHA defined hazards Not classified.
Label elements



Signal word Hazard statement Danger

Highly flammable liquid and vapor. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. Harmful if inhaled. May cause drowsiness or dizziness. May damage fertility or 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 protective gloves/protective clothing/eye protection/face protection.
Response	If swallowed: Immediately call a poison center/doctor. Rinse mouth. Do NOT induce vomiting. 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. 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	Keep cool. Store in a well-ventilated place. Keep container tightly closed. 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	None.

# 3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Toluene		108-88-3	99.93
Chlorfenvinphos		470-90-6	0.01
Chlorpyrifos		2921-88-2	0.01
Dichlorvos		62-73-7	0.01
Dimethoate		60-51-5	0.01
Heptenophos		23560-59-0	0.01
Quinalphos		13593-03-8	0.01
Triazophos		24017-47-8	0.01
Tetrachlorvinphos		22248-79-9	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	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Aspiration may cause pulmonary edema and pneumonitis. 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	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.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	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. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

# 7. Handling and storage

Precautions for safe handling	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. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. 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).
	a val vyata atla v

# 8. Exposure controls/personal protection

#### **Occupational exposure limits**

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

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

Components	Туре	Value	Value		
Dichlorvos (CAS 62-73-7)	PEL	1 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		
Chlorpyrifos (CAS 2921-88-2)	TWA	0.1 mg/m3	Inhalable fraction and vapor.		
Dichlorvos (CAS 62-73-7)	TWA	0.1 mg/m3	Inhalable fraction and vapor.		
Toluene (CAS 108-88-3)	TWA	20 ppm			
US. NIOSH: Pocket Guide to Chem	ical Hazards				
Components	Туре	Value			
Chlorpyrifos (CAS 2921-88-2)	STEL	0.6 mg/m3			
	TWA	0.2 mg/m3			
Dichlorvos (CAS 62-73-7)	TWA	1 mg/m3			
Toluene (CAS 108-88-3)	STEL	560 mg/m3 150 ppm			
	TWA	375 mg/m3 100 ppm			

#### Biological limit values

ACGIH Biological Expos Components	Value	Determinant	Specimen	Sampling Time
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with	Creatinine in	*
	0.0 mg/g	hydrolysis	urine	
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*
* - For sampling details, pl	ease see the source	document.		
oosure guidelines				
US - California OELs: Sk	in designation			
Chlorpyrifos (CAS 292			e absorbed throu	
Dichlorvos (CAS 62-7			e absorbed throu	0
Toluene (CAS 108-88 US - Minnesota Haz Subs			e absorbed throu	gn the skin.
Chlorpyrifos (CAS 292	-		esignation applie	9
Dichlorvos (CAS 62-7			esignation applie	
Toluene (CAS 108-88			esignation applie	
US - Tennessee OELs: S	kin designation			
Chlorpyrifos (CAS 292	,		e absorbed throu	
Dichlorvos (CAS 62-7			e absorbed throu	gh the skin.
US ACGIH Threshold Lin		•		ale the end in
Chlorpyrifos (CAS 292 Dichlorvos (CAS 62-7			e absorbed throu e absorbed throu	
US NIOSH Pocket Guide	,			
Chlorpyrifos (CAS 292		-	e absorbed throu	gh the skin.
Dichlorvos (CAS 62-7	3-7)	Can be	e absorbed throug	
US. OSHA Table Z-1 Lim	its for Air Contamir	nants (29 CFR 1910.10	00)	
Dichlorvos (CAS 62-7	3-7)	Can be	e absorbed throu	gh the skin.
propriate engineering ntrols	changes per he applicable, use maintain airbor established, m	Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station. Eye wash fountain and emergency showers are recommended.		
ividual protection measur Eye/face protection		al protective equipme rator with organic vapor		Il facepiece.
Skin protection				
Hand protection	Wear appropria	ate chemical resistant g	loves.	
Other	Wear appropria	ate chemical resistant c	othing. Use of ar	n impervious apron is recommended.
<b>Respiratory protection</b>	Chemical respi	rator with organic vapor	cartridge and fu	Il facepiece.
Thermal hazards	Wear appropria	ate thermal protective cl	othing, when neo	cessary.
neral hygiene nsiderations	and drink. Alwa material and be	ays observe good perso	nal hygiene mea	using do not smoke. Keep away from fo sures, such as washing after handling th Routinely wash work clothing and protect

# 9. Physical and chemical properties

Appearance	
Physical state	Liquid.
Form	Liquid.
Color	Not available.
Odor	Not available.
Odor threshold	Not available.
рН	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 exp	losive limits
Flammability limit - lower (%)	1.3 % estimated
Flammability limit - upper (%)	7 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	29.3 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	0.86378 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Flammable IB estimated
Oxidizing properties	Not oxidizing.
Percent volatile	99.93 % estimated
Specific gravity	0.86 estimated
VOC	99.93 % 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 informat	ion
Information on likely routes of e	xposure
Inhalation	Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause drowsiness and dizziness. Headache, Nausea, vomiting.

initialation	inhalation. May cause drowsiness and dizziness. Headache. Nausea, vomiting.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Ingestion	Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.
Symptoms related to the physical, chemical and toxicological characteristics	Aspiration may cause pulmonary edema and pneumonitis. 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.

# Information on toxicological effects

<b>0</b>	May be fatal if swallowed and enters airways. Harmful if inhaled.		
Components	Species		Test Results
Chlorfenvinphos (CAS 470-90-6)			
Acute			
Dermal			04
LD50	Rat		31 mg/kg
Inhalation			
LC50	Rat		0.05 mg/l, 4 Hours
Chlorpyrifos (CAS 2921-88-2)			
Acute			
Dermal			
LD50	Rat		202 mg/kg
Inhalation			
LC50	Rat		> 0.2 mg/l, 4 Hours
Oral			
LD50	Rat		82 mg/kg
Dichlorvos (CAS 62-73-7)			
<u>Acute</u>			
Inhalation			
LC50	Rat		0.015 mg/l, 4 Hours
Heptenophos (CAS 23560-59-0)			
<u>Acute</u>			
Dermal			
LD50	Rat		> 2000 mg/kg
Inhalation			
LC50	Rat		0.95 mg/l, 4 Hours
Oral			
LD50	Rat		96 mg/kg
Toluene (CAS 108-88-3)			
<u>Acute</u>			
Inhalation			
LC50	Rat		12.5 - 28.8 mg/l, 4 Hours
Triazophos (CAS 24017-47-8)			
<u>Acute</u>			
Oral			
LD50	Rat		66 mg/kg
* Estimates for a data to the	- leased an edd(Correction)	at data wat all s	
	e based on additional componer	ni data not snown.	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitizatior	ı		
ACGIH sensitization			
DICHLORVOS (DDVP), I VAPOR (CAS 62-73-7)	NHALABLE FRACTION AND	Dermal sensitization	
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to	o cause skin sensitizatio	on.
Germ cell mutagenicity			nts present at greater than 0.1% are
Carcinogenicity	Not classifiable as to carcinog	enicity to humans.	
	Evaluation of Carcinogenicity		

Not regulated.	,	carcinogenic to humans. able as to carcinogenicity to humans.
Reproductive toxicity	May damage fertility or 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 prolo	nged or repeated exposure.
Aspiration hazard	May be fatal if swallowed and enters airways	3.
Chronic effects	May cause damage to organs through proloi be harmful.	nged or repeated exposure. Prolonged inhalation may

# 12. Ecological information

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

		the to aquatic me with long lasting enects.			
Components		Species	Test Results		
Chlorfenvinphos (CAS	470-90-6)				
Aquatic					
Fish	LC50	Bluegill (Lepomis macrochirus)	0.017 - 0.031 mg/l, 96 hours		
Chlorpyrifos (CAS 2921	I-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		
Dichlorvos (CAS 62-73-	-7)				
Aquatic					
Crustacea	EC50	Water flea (Daphnia pulex)	0 - 0.0001 mg/l, 48 hours		
Fish	LC50	Cutthroat trout (Oncorhynchus clarki)	0.141 - 0.321 mg/l, 96 hours		
Dimethoate (CAS 60-57	1-5)				
Aquatic					
Crustacea	EC50	Water flea (Daphnia magna)	0.48 - 0.66 mg/l, 48 hours		
Fish	LC50	Brown trout (Salmo trutta)	0.13 mg/l, 96 hours		
Quinalphos (CAS 1359	3-03-8)				
Aquatic					
Fish	LC50	Channelfish (Nuria danrica)	0.07 mg/l, 96 hours		
Tetrachlorvinphos (CAS	6 22248-79-9)				
Aquatic					
Crustacea	EC50	Northern pink shrimp (Penaeus duorarum)	0.28 mg/l, 48 hours		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.332 - 0.557 mg/l, 96 hours		
Toluene (CAS 108-88-3	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

# Bioaccumulative potential

```
Partition coefficient n-octanol / water (log Kow)
Chlorfenvinphos
```

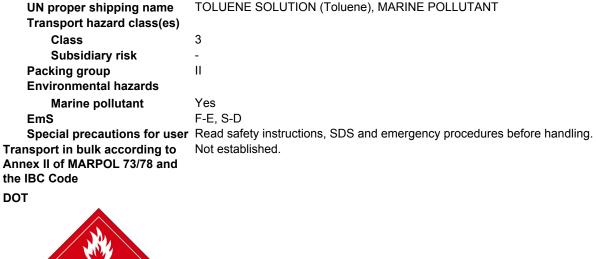
3.81

Partition coefficient n-octa	nol / water (log Kow)		
Chlorpyrifos	5.27		
Dichlorvos	1.43		
Heptenophos	2.32		
Tetrachlorvinphos	3.53		
Toluene	2.73		
Triazophos	3.55		
Mobility in soil	No data available.		
Other adverse effects	The product contains volatile organic compounds which have a photochemical ozone creation potential.		
13. Disposal consideration	ons		
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 Wast	e P List: Reference		
Dimethoate (CAS 60-51	-5) P044		

Dimethoate (CAS 60-51-5	) F044
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

00	1	
	UN number	UN1294
	UN proper shipping name	Toluene, solution (Toluene RQ = 1001 LBS), MARINE POLLUTANT (Chlorfenvinphos, Heptenophos)
	Transport hazard class(es)	
	Class	3
	Subsidiary risk	-
	Label(s)	3
	Packing group	Ш
	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
ΙΑΤ	A	
	UN number	UN1294
	UN proper shipping name	Toluene solution (Toluene)
	Transport hazard class(es)	
	Class	3
	Subsidiary risk	-
	Packing group	11
	Environmental hazards	Yes
	ERG Code	3L
		Read safety instructions, SDS and emergency procedures before handling.
	Other information	
	Passenger and cargo aircraft	Allowed with restrictions.
	Cargo aircraft only	Allowed with restrictions.
IME	)G	
	UN number	UN1294





Marine pollutant



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.

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

Not regulated.

not regulated.	
CERCLA Hazardous Substance List (40 CFR 302.4)	
Chlorpyrifos (CAS 2921-88-2)	Listed.
Dichlorvos (CAS 62-73-7)	Listed.
Dimethoate (CAS 60-51-5)	Listed.
Toluene (CAS 108-88-3)	Listed.
SARA 304 Emergency release notification	
Chlorfenvinphos (CAS 470-90-6)	500 LBS
Dichlorvos (CAS 62-73-7)	10 LBS

Dimethoate (CAS 60-51-5)	10 LBS
Triazophos (CAS 24017-47-8)	500 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

#### 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 haz	

#### SARA 302 Extremely hazardous substance ~ \* ~ .

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
Chlorfenvinphos	470-90-6	500	500		
Dichlorvos	62-73-7	10	1000		
Dimethoate Triazophos	60-51-5 24017-47-8	10 500	500	500	10000
SARA 311/312 Hazard chemical	lous No				
SARA 313 (TRI report Chemical name	ing)	C	AS number	% by wt.	
Toluene		10	)8-88-3	99.93	
er federal regulations					
Clean Air Act (CAA) S	Section 112 Hazard	lous Air Polluta	nts (HΔPs) List		
Dichlorvos (CAS 6 Toluene (CAS 108 Clean Air Act (CAA) S	-88-3)	dental Release	Prevention (40 CFR 6	8.130)	
Not regulated.					
Safe Drinking Water A (SDWA)	Act Not regula	ted.			
Drug Enforcemer Chemical Code N		DEA). List 2, Es	sential Chemicals (21	I CFR 1310.02(b) and 1	310.04(f)(2) and
Toluene (CAS Drug Enforcemer		DEA). List 1 & 2	6594 Exempt Chemical Mi	ixtures (21 CFR 1310.1	2(c))
Toluene (CAS DEA Exempt Che	5 108-88-3) mical Mixtures Co	de Number	35 %WV		
Toluene (CAS	5 108-88-3)		594		
state regulations		: This product co ts or other reproc		wn to the State of Califo	rnia to cause cancer and
US - California Pr	oposition 65 - CR	T: Listed date/C	arcinogenic substand	ce	
Dichlorvos (C/ Tetrachlorvinp	- AS 62-73-7) bhos (CAS 22248-79	9-9)	Listed: January 1, Listed: May 20, 20 evelopmental toxin	1989	
subd. (a))	andidate Chemical	s List. Safer Co	Listed: January 1, nsumer Products Reg	1991 gulations (Cal. Code R	egs, tit. 22, 69502.3,
Toluene (CAS	5 108-88-3)				
ernational Inventories					
Country(s) or region	Inventory				On inventory (yes/no)
Australia	Australian	Inventory of Che	mical Substances (AIC	S)	N
Canada	Domestic S	Substances List (	DSL)		N
Canada	Non-Dome	estic Substances	List (NDSL)		N
China					
Unina	Inventory of	of Existing Chem	ical Substances in Chir	na (IECSC)	N

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
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

Toxic Substances Control Act (TSCA) Inventory ileo Siales & Puerlo Rico

\*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	11-15-2017
Revision date	11-16-2017
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.
	Persons not specifically and properly trained should not handle this chemical or its container. This product is furnished FOR LABORATORY USE ONLY! Our products may NOT BE USED as drugs, cosmetics, agricultural or pesticide products, food additives or as household chemicals.
	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

arrants 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.

Copyright © 2000-2014 Chem Service, Inc. All rights reserved except that this SDS may be printed for the use of a customer or prospective customer of Chem Service, Inc provided the entire SDS is printed. The SDS may not be placed in any database or otherwise stored or distributed in electronic or any other form.

This product is furnished FOR LABORATORY USE ONLY.