SAFETY DATA SHEET

GHENSERVIGE

1. Identification			
Product identifier	Chlordecone Solution		
Other means of identification			
Item	S-12291T4		
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	4
	Direct	610-692-3026	6
Website	www.chemservice.com		
E-mail	info@chemservice.com		
Emergency phone number	Chemtrec US	800-424-9300	
	Chemtrec outside US	+1 703-527-3	887
2. Hazard(s) identification			
Physical hazards	Flammable liquids		Category 2
Health hazards	Skin corrosion/irritation		Category 2
	Serious eye damage/eye irritati	on	Category 2B
	Carcinogenicity		Category 2
	Specific target organ toxicity, si	ngle exposure	Category 3 respiratory tract irritation
Environmental hazards	Hazardous to the aquatic environ hazard	onment, acute	Category 3
	Hazardous to the aquatic enviro	onment,	Category 3
OSHA defined hazards	Not classified.		
Label elements			



Signal word Danger Highly flammable liquid and vapor. Causes skin irritation. Causes eye irritation. May cause Hazard statement respiratory irritation. Suspected of causing cancer. Harmful to aquatic life. Harmful 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. Use only outdoors or in a well-ventilated area. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid breathing mist or vapor. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Response 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. Specific treatment (see this label). 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.

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)	None known.
Supplemental information	99.9% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 99.9% 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	%
t-Butyl methyl ether		1634-04-4	99 - 100
Chlordecone		143-50-0	0.1

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Take off contaminated clothing and wash 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. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain.
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 under observation. Symptoms may be delayed.
General information	Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
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. 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. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of vapors or mists. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. 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.
	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. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.
	Small Spills: 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. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.
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. Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not smoke. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid breathing mist or vapor. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Avoid release to the environment. Do not empty into drains.
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. Store in original tightly closed container. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS). Keep in an area equipped with sprinklers.

8. Exposure controls/personal protection

US. ACGIH Threshold Limi Components	Type	Value
t-Butyl methyl ether (CAS 1634-04-4)	TWA	50 ppm
US. NIOSH: Pocket Guide	to Chemical Hazards	
Components	Туре	Value
Chlordecone (CAS 143-50-0)	TWA	0.001 mg/m3
Biological limit values	No biological exposure limits noted f	or the ingredient(s).
Appropriate engineering controls	changes per hour) should be used. A applicable, use process enclosures, maintain airborne levels below recor	chaust ventilation. Good general ventilation (typically 10 air Ventilation rates should be matched to conditions. If local exhaust ventilation, or other engineering controls to nmended exposure limits. If exposure limits have not been to an acceptable level. Eye wash facilities and emergency dling this product.
ndividual protection measures Eye/face protection	s, such as personal protective equips Wear safety glasses with side shield	
Skin protection		
Hand protection	Wear appropriate chemical resistant	gloves.
Other	Wear appropriate chemical resistant	clothing.
Respiratory protection		ain airborne concentrations below recommended exposure ceptable level (in countries where exposure limits have not pirator must be worn.
Thermal hazards	Wear appropriate thermal protective	clothing, when necessary.
General hygiene considerations		bserve good personal hygiene measures, such as washing re eating, drinking, and/or smoking. Routinely wash work premove contaminants

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	-163.48 °F (-108.6 °C) estimated
Initial boiling point and boiling range	131.36 °F (55.2 °C) estimated
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	333.3 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	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.741249 g/cm3 estimated
Specific gravity	0.74 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. 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

Ingestion	Expected to be a low ingestion hazard.
Inhalation	Prolonged inhalation may be harmful. May cause irritation to the respiratory system.
Skin contact	Causes skin irritation.
Eye contact	Causes eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Exposed individuals may experience eye tearing, redness, and discomfort. Skin irritation. May cause redness and pain.
Information on toxicological ef	fects

Acute toxicity May cause respiratory irritation. Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Components	Species	Test Results
Chlordecone (CAS 143-50-0)		
Acute		
Dermal		
LD50	Rat	2000 mg/kg
Oral		
LD50	Chicken	480 mg/kg
	Dog	250 mg/kg
	Pig	2550 mg/kg
	Rabbit	65 mg/kg
	Rat	95 mg/kg
Other		
LD50	Rabbit	345 mg/kg
t-Butyl methyl ether (CAS 1634-04	-4)	
Acute	.)	
Dermal		
LD50	Rabbit	> 10000 mg/kg
	Rat	> 2000 mg/kg
Inhalation		
LC50	Rat	85 mg/l, 4 Hours
Oral		
LD50	Rat	> 2000 mg/kg
		4 ml/kg
Other		· · ·······
LD50	Rabbit	> 10 ml/kg
* Estimates for product may b	e based on additional componer	nt data not shown.
Skin corrosion/irritation	Causes skin irritation.	
Serious eye damage/eye irritation	Causes eye irritation.	
Respiratory or skin sensitization	ı	
Respiratory sensitization	Not available.	
Skin sensitization	This product is not expected to	o cause skin sensitization.
Germ cell mutagenicity	No data available to indicate p mutagenic or genotoxic.	product or any components present at greater than 0.1% are
Carcinogenicity	Suspected of causing cancer.	
IARC Monographs. Overall I	Evaluation of Carcinogenicity	
Chlordecone (CAS 143-5 t-Butyl methyl ether (CAS	1634-04-4)	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans.
Chlordecone (CAS 143-5	ogram (NTP) Report on Carcin 0-0)	Reasonably Anticipated to be a Human Carcinogen.
	ilated Substances (29 CFR 19 ⁴	
Reproductive toxicity	This product is not expected to	o cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Respiratory tract irritation.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not available.	
Chronic effects	Prolonged inhalation may be h	narmful.
12. Ecological information		
Ecotoxicity	Harmful to aquatic life with lon	g lasting effects. Accumulation in aquatic organisms is expected.

Components		Species	Test Results
Chlordecone (CAS 143-50-0)		
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	0.03 - 0.16 mg/l, 48 hours
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	0.02 mg/l, 96 hours
t-Butyl methyl ether (CAS 16	34-04-4)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales prome	las) 672 mg/l, 96 hours
* Estimates for product may	be based on	additional component data not shown.	
Persistence and degradability		available on the degradability of this produ	uct.
Bioaccumulative potential	No data a		
Partition coefficient n-octa t-Butyl methyl ether			
Mobility in soil	No data a		
-			depletion shots howing errors are then
Other adverse effects		adverse environmental effects (e.g. ozone o endocrine disruption, global warming poter	
13. Disposal consideration	ons		
Disposal instructions	and its co sewers/wa	ntainer must be disposed of as hazardous ater supplies. Do not contaminate ponds, w Dispose of contents/container in accordan	at licensed waste disposal site. This material waste. Do not allow this material to drain into vaterways or ditches with chemical or used ace with local/regional/national/international
Local disposal regulations	Dispose i	n accordance with all applicable regulations	S.
Hazardous waste code	The waste disposal c		etween the user, the producer and the waste
US RCRA Hazardous Wast	e U List: Rei	erence	
Chlordecone (CAS 143-	50-0)	U142	
Waste from residues / unused products	product re	f in accordance with local regulations. Emp sidues. This material and its container mus nstructions).	
Contaminated packaging		ntainers should be taken to an approved wa otied containers may retain product residue	aste handling site for recycling or disposal. e, follow label warnings even after container is
14. Transport informatior	า		
DOT			
UN number	UN2398		
UN proper shipping name		t-butyl ether, solution	
Transport hazard class(es)	•	···· ·	
Class	3		
Subsidiary risk	-		
Label(s)	3		
Packing group	II		
		ety instructions, SDS and emergency proce	dures before handling.
Special provisions	IB2, T7, T	P1	
Packaging exceptions Packaging non bulk	150 202		
Packaging bulk	202		
	242		
UN number	UN2398		
UN proper shipping name		t-butyl ether solution	
Transport hazard class(es)	•		
Class	3		
Subsidiary risk	-		
Packing group	II		
Environmental hazards	No.		
ERG Code	3L		
Special precautions for us	or Read safe	etv instructions, SDS and emergency proce	dures hefore handling

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

		AU
	Passenger and cargo aircraft	Allowed.
IMDG	Cargo aircraft only	Allowed.
	number	UN2398
	proper shipping name sport hazard class(es)	METHYL tert-BUTYL ETHER solution
	Class	3
	Subsidiary risk	-
	king group	II
	ironmental hazards	
	Marine pollutant	No.
EmS	3	F-E, S-D
Transpo	rt in bulk according to of MARPOL 73/78 and	Read safety instructions, SDS and emergency procedures before handling. Not available.
	FLAMMABLE 3	
	3	
15. Reg	3 gulatory information	
	gulatory information ral regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Commu Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA.
US feder	ral regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Commu Standard, 29 CFR 1910.1200.
US feder TSC	ral regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Commu Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA.
US feder TSC	ral regulations A Section 12(b) Export N	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Commu Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA. Iotification (40 CFR 707, Subpt. D)
US feder TSC CER	ral regulations A Section 12(b) Export N Not regulated. RCLA Hazardous Substan Chlordecone (CAS 143-50	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Commu Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA. Jotification (40 CFR 707, Subpt. D) Ince List (40 CFR 302.4) D-0) Listed.
US feder TSC CER	ral regulations A Section 12(b) Export N Not regulated. RCLA Hazardous Substar	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Commu Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA. Iotification (40 CFR 707, Subpt. D) nce List (40 CFR 302.4) 0-0) Listed. 1634-04-4) Listed.
US feder TSC CER SAR US.	ral regulations A Section 12(b) Export N Not regulated. CLA Hazardous Substan Chlordecone (CAS 143-50 t-Butyl methyl ether (CAS CA 304 Emergency releas Not regulated.	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Commu Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA. Iotification (40 CFR 707, Subpt. D) nce List (40 CFR 302.4) 0-0) Listed. 1634-04-4) Listed.
US feder TSC CER SAR US.	A Section 12(b) Export N Not regulated. CLA Hazardous Substan Chlordecone (CAS 143-50 t-Butyl methyl ether (CAS A 304 Emergency releas Not regulated. OSHA Specifically Regul Not listed.	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Commu Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA. Interaction (40 CFR 707, Subpt. D) Ince List (40 CFR 302.4) D-0) Listed. 1634-04-4) Listed. See notification Idated Substances (29 CFR 1910.1001-1050)
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US feder TSC CER SAR US. Superfun Haza	ral regulations A Section 12(b) Export N Not regulated. CLA Hazardous Substan Chlordecone (CAS 143-50 t-Butyl methyl ether (CAS A 304 Emergency releas Not regulated. OSHA Specifically Regul Not listed. nd Amendments and Rea	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Commu Standard, 29 CFR 1910.1200. One or more components are not listed on TSCA. Notification (40 CFR 707, Subpt. D) The List (40 CFR 302.4) D-0) Listed. 1634-04-4) Listed. 1634-04-4) Listed. Be notification Listed Substances (29 CFR 1910.1001-1050) Authorization Act of 1986 (SARA) Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

Material name: Chlordecone Solution 2617 Version #: 01 Issue date: 03-19-2015

SARA 313 (TRI reporting)				
Chemical name		CAS number	% by wt.	_
t-Butyl methyl ether		1634-04-4	99 - 100	
ther federal regulations				
Clean Air Act (CAA) Section		lutants (HAPs) List		
t-Butyl methyl ether (CAS Clean Air Act (CAA) Sectior		ase Prevention (40 CFR	68 130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
S state regulations				
US. Massachusetts RTK - S	ubstance List			
Chlordecone (CAS 143-5 t-Butyl methyl ether (CAS	S 1634-04-4)			
US. New Jersey Worker and				
Chlordecone (CAS 143-5 t-Butyl methyl ether (CAS	S 1634-04-4)	500 LBS 500 LBS		
US. Pennsylvania RTK - Haz				
Chlordecone (CAS 143-5 t-Butyl methyl ether (CAS				
US. Rhode Island RTK				
Chlordecone (CAS 143-5 t-Butyl methyl ether (CAS				
US. California Proposition 6 WARNING: This product reproductive harm.		vn to the State of Californ	ia to cause cancer and	birth defects or other
US - California Proposi [,]	tion 65 - CRT: Listed da	te/Carcinogenic substar	ice	
Chlordecone (CAS 1	43-50-0)	Listed: Jonuan (, 1988	
US - California Proposi		Listed: January 1 te/Developmental toxin		
	tion 65 - CRT: Listed da		, 1989	
US - California Proposi	tion 65 - CRT: Listed da	te/Developmental toxin	, 1989	
US - California Proposit Chlordecone (CAS 1	tion 65 - CRT: Listed da	te/Developmental toxin	, 1989	On inventory (yes/nd
US - California Proposit Chlordecone (CAS 1 ternational Inventories	tion 65 - CRT: Listed da (43-50-0) Inventory name	te/Developmental toxin		
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16. Other information, including date of preparation or last revision

Issue date	03-19-2015
Version #	01
NFPA ratings	Health: 0 Flammability: 2 Instability: 0

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 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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