

SAFETY DATA SHEET

1. Identification

Product identifier	Octachlorodibenzo-p-dioxin Solution		
Other means of identification			
ltem	S-17373U0		
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	l .
	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	+1 703-527-38	387
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 irritati	ion	Category 2A
	Reproductive toxicity (the unborn child)		Category 2
	Specific target organ toxicity, si	ingle exposure	Category 3 narcotic effects

Specific target organ toxicity, repeated

Hazardous to the aquatic environment,

Environmental hazards

OSHA defined hazards

Label elements

Signal word Hazard statement

Hazardous to the aquatic environment, acute Category 2

Danger

exposure

long-term hazard

Not classified.

hazard

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. Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Category 2

Category 2

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. Do not breathe mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement Prevention

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. Specific treatment (see this label). 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 inhalation toxicity. 0.01% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 0.01% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Toluene		108-88-3	90 - 100
Octachlorodibenzo-p-dioxin		3268-87-9	0.005

*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. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a POISON CENTER or doctor/physician if you feel unwell. Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation Skin contact occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Ingestion Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. Most important Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May symptoms/effects, acute and cause redness and pain. Prolonged exposure may cause chronic effects. delayed Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water Indication of immediate medical attention and special immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. In case of shortness of breath, give treatment needed oxygen. 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. 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. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. Do not use water jet as an extinguisher, as this will spread the fire. Unsuitable extinguishing media Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source Specific hazards arising from of ignition and flash back. This product is a poor conductor of electricity and can become the chemical 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. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Special protective equipment and precautions for firefighters **Fire-fighting** In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do equipment/instructions 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. Do not breathe mist or vapor. Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. 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: 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. 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. 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. 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 skin. Avoid contact with eyes. Avoid contact during pregnancy/while nursing. Avoid prolonged exposure. Avoid contact with clothing. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.
	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. Avoid spark promoters. Eliminate sources of ignition. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. 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/perso	onal protection
Occupational exposure limits	

upational exposure limits 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 Value	9S		
Components	Туре	Value	
Toluene (CAS 108-88-3)	TWA	20 ppm	

Components	Туре		Val	ue
Toluene (CAS 108-88-3)	STEL		560) mg/m3
			150) ppm
	TWA		375	5 mg/m3
			100) ppm
ological limit values				
ACGIH Biological Exposi	ure Indices			
Components	Value	Determinant	Specimen	Sampling Time
Toluene (CAS 108-88-3)	0.3 mg/g	o-Cresol, with hydrolysis	Creatinine in urine	*
	0.03 mg/l	Toluene	Urine	*
	0.02 mg/l	Toluene	Blood	*
* - For sampling details, ple	ease see the source docu	iment.		
cposure guidelines				
US - California OELs: Ski	n designation			
Toluene (CAS 108-88-	-3)	Can be	e absorbed throug	gh the skin.
US - Minnesota Haz Subs	Skin designation appl			-
Toluene (CAS 108-88-	-3)	Skin de	esignation applies	S.
opropriate engineering ontrols	changes per hour) s applicable, use proc maintain airborne le established, maintai	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.		
dividual protection measure	es, such as personal pr	otective equipme	nt	
Eye/face protection	Wear safety glasses	with side shields	(or goggles).	
Skin protection				
Hand protection	Wear appropriate ch	nemical resistant g	loves.	
Other	Wear appropriate ch	nemical resistant c	othing.	
Respiratory protection	limits (where applica	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.		
Thermal hazards	Wear appropriate th	Wear appropriate thermal protective clothing, when necessary.		
eneral hygiene onsiderations	as washing after har	When using, do not eat, drink or smoke. 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.		
. Physical and chemica	al 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 available.
Upper/lower flammability or expl	osive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.

Vapor pressure	37.86 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	896 °F (480 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
-	NUL avaliable.
Other information	Not available.
Other information Density	0.86 g/cm3 estimated
Density	0.86 g/cm3 estimated
Density Flammability class	0.86 g/cm3 estimated Flammable IB estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Harmful if swallowed.
Inhalation	Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Harmful if inhaled. May cause damage to organs by inhalation.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Information on toxicological effects

Acute toxicity

Harmful if inhaled. Harmful if swallowed. Narcotic effects. Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Components	Species	Test Results
Octachlorodibenzo-p-dioxi	n (CAS 3268-87-9)	
Acute		
Oral		
LD50	Rat	1 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

Components	Species	Test Results		
		12200 ppm, 2 Hours		
		8000 ppm, 4 Hours		
		5879 - 6281 ppm, 6 Hours		
		12.5 - 28.8 mg/l, 4 Hours		
Oral				
LD50	Rat	2.6 g/kg		
Other				
LD50	Mouse	59 mg/kg		
	Rat	1332 mg/kg		
* Estimates for product may	be based on additional component d	ata not shown.		
Skin corrosion/irritation	Causes skin irritation.			
Serious eye damage/eye irritation	Causes serious eye irritation.			
Respiratory or skin sensitizati	on			
Respiratory sensitization	Not available.			
Skin sensitization	This product is not expected to ca	This product is not expected to cause skin sensitization.		
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.			
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.			
IARC Monographs. Overal	I Evaluation of Carcinogenicity			
Toluene (CAS 108-88-3 US. OSHA Specifically Re Not listed.	3) gulated Substances (29 CFR 1910.	Not classifiable as to carcinogenicity to humans. 1001-1050)		
Reproductive toxicity	Suspected of damaging the unbo	rn child.		
Specific target organ toxicity - single exposure				
Specific target organ toxicity - repeated exposure	May cause damage to organs thr	May cause damage to organs through prolonged or repeated exposure.		
Aspiration hazard	Not available.	Not available.		
Chronic effects	Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure.			
12. Ecological information	on			

12. Ecological information

Ecotoxicity

Toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

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 (Oncorhynchus kisutch)	8.11 mg/l, 96 hours

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

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

Partition coefficient	n-octanol / water (log Kow)	
Octachlorodibenzo-p-	dioxin	8.78 - 13.37
Toluene		2.73
Mobility in soil	No data available.	

wobility in soli	NO data avallable.
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

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Disposal instructions
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Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. 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 U List: Reference

Toluene (CAS 108-88-3)	U220
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	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT

DOT		
UN number	ber UN1294	
UN proper shipping name	Toluene, solution, MARINE POLLUTANT	
Transport hazard class(es)		
Class	3	
Subsidiary risk	-	
Label(s)	3	
Packing group	II	
Environmental hazards		
Marine pollutant	Yes	
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.	
Special provisions	IB2, T4, TP1	
Packaging exceptions	150	
Packaging non bulk	202	
Packaging bulk	242	
ΙΑΤΑ		
UN number	UN1294	
UN proper shipping name	Toluene solution	
Transport hazard class(es)		
Class	3	
Subsidiary risk	-	
Packing group	II	
Environmental hazards	No.	
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		
UN number	UN1294	
UN proper shipping name	TOLUENE SOLUTION, MARINE POLLUTANT	
Transport hazard class(es)		
Class	3	
Subsidiary risk	-	
Packing group	II	
Environmental hazards		
Marine pollutant	Yes	
EmS	F-E, S-D	
	Read safety instructions, SDS and emergency procedures before handling.	
Transport in bulk according to	Not available.	
Annex II of MARPOL 73/78 and		
the IBC Code		



Safe Drinking Water Act	Not regulated.		
(SDWA)	J. J		
Drug Enforcement A Chemical Code Num		sential Chemicals (21 CFR 1310.02(b)	and 1310.04(f)(2) and
Toluene (CAS 108		6594	
-		Exempt Chemical Mixtures (21 CFR 1	l310.12(c))
Toluene (CAS 108 DEA Exempt Chemic	3-88-3) al Mixtures Code Number	35 %WV	
Toluene (CAS 108	3-88-3)	594	
S state regulations			
US. Massachusetts RTK	Substance List		
Toluene (CAS 108-88- US. New Jersey Worker a	3) <mark>nd Community Right-to-Know</mark>	/ Act	
Octachlorodibenzo-p-o	lioxin (CAS 3268-87-9)	500 LBS	
Toluene (CAS 108-88- US. Pennsylvania RTK - H		500 LBS	
Toluene (CAS 108-88- US. Rhode Island RTK	3)		
Octachlorodibenzo-p-c Toluene (CAS 108-88-	lioxin (CAS 3268-87-9) 3)		
US. California Propositio	n 65		
		o the State of California to cause cancer	and birth defects or other
US - California Propo	sition 65 - CRT: Listed date/C	arcinogenic substance	
	o-p-dioxin (CAS 3268-87-9) sition 65 - CRT: Listed date/D	Listed: October 1, 1992 evelopmental toxin	
Toluene (CAS 108		Listed: January 1, 1991	
Toluene (CAS 108	3-88-3)	Listed: August 7, 2009	
ternational Inventories			
Country(s) or region	Inventory name		On inventory (yes/no)*
Australia	Australian Inventory of Che	mical Substances (AICS)	No
Canada	Domestic Substances List	Domestic Substances List (DSL)	
Canada	Non-Domestic Substances List (NDSL)		
China	Inventory of Existing Chem	Inventory of Existing Chemical Substances in China (IECSC)	
Europe	European Inventory of Existing Commercial Chemical N Substances (EINECS)		
Europe	European List of Notified Chemical Substances (ELINCS)		
Japan	Inventory of Existing and New Chemical Substances (ENCS)		
Korea	Existing Chemicals List (EC	CL)	No
New Zealand	New Zealand Inventory		No
Philippines	Philippine Inventory of Che (PICCS)	micals and Chemical Substances	Nc
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A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue date	05-23-2014
Version #	01
NFPA ratings	Health: 2 Flammability: 3 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.

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