# SAFETY DATA SHEET

### GHEMSERVIGE .....

### 1. Identification

Product identifier	ISO 6468 PCB Congener	Mixture
Other means of identification		
Item	M-ISO6468PCBJ10	
Recommended use	For Laboratory Use Only	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name	Chem Service, Inc.	
Address	660 Tower Lane	
	West Chester, PA 19380	
	United States	
Telephone	Toll Free	800-452-9994
	Direct	610-692-3026
Website	www.chemservice.com	
E-mail	info@chemservice.com	
Emergency phone number	Chemtrec US	800-424-9300
	Chemtrec outside US	+1 703-527-3887
2 Hazard/a) identification		

### 2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 2
Health hazards	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A
	Reproductive toxicity	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity, repeated exposure	Category 1
	Aspiration hazard	Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 2
	Hazardous to the aquatic environment, long-term hazard	Category 2
OSHA defined hazards	Not classified.	

Label elements



Danger

Signal word Hazard statement

Highly flammable liquid and vapor. May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. 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. 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	%
n-Hexane		110-54-3	99.99
2,2',3,3',4,4',5,5'-Octachlorobipheny		35694-08-7	0.001
2,2',3,4,4',5,5'-Heptachlorobiphenyl		35065-29-3	0.001
2,2',3,4,4',5'-Hexachlorobiphenyl		35065-28-2	0.001
2,2',4,4',5,5'-Hexachlorobiphenyl		35065-27-1	0.001
2,2',4,5,5'-Pentachlorobiphenyl		37680-73-2	0.001
2,2',5,5'-Tetrachlorobiphenyl		35693-99-3	0.001
2,4,4'-Trichlorobiphenyl		7012-37-5	0.001

### 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. 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 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 Unsuitable extinguishing	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.
media	
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. 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. 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
Conditions for safe storage, including any incompatibilities	<ul> <li>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).</li> </ul>
8. Exposure controls/pers	onal protection

### o. Exposure controls/personal prot

### 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	
2,2',3,4,4',5,5'-Heptachlorob iphenyl (CAS 35065-29-3)	PEL	1 mg/m3	
2,2',3,4,4',5'-Hexachlorobip henyl (CAS 35065-28-2)	PEL	1 mg/m3	
2,2',4,5,5'-Pentachlorobiphe nyl (CAS 37680-73-2)	PEL	1 mg/m3	
2,2',5,5'-Tetrachlorobipheny I (CAS 35693-99-3)	PEL	1 mg/m3	
2,4,4'-Trichlorobiphenyl (CAS 7012-37-5)	PEL	1 mg/m3	
n-Hexane (CAS 110-54-3)	PEL	1800 mg/m3 500 ppm	
US. ACGIH Threshold Limit Values		FF	
Components	Туре	Value	
2,2',3,4,4',5,5'-Heptachlorob iphenyl (CAS 35065-29-3)	TWA	1 mg/m3	
2,2',3,4,4',5'-Hexachlorobip henyl (CAS 35065-28-2)	TWA	1 mg/m3	
2,2',4,5,5'-Pentachlorobiphe nyl (CAS 37680-73-2)	TWA	1 mg/m3	
2,2',5,5'-Tetrachlorobipheny I (CAS 35693-99-3)	TWA	1 mg/m3	
2,4,4'-Trichlorobiphenyl (CAS 7012-37-5)	TWA	1 mg/m3	

Components	Туре		Va	llue	
2,2',3,3',4,4',5,5'-Octachlord biphenyl (CAS 35694-08-7)			0.0	001 mg/m3	
2,2',4,4',5,5'-Hexachlorobip henyl (CAS 35065-27-1)	TWA		0.0	001 mg/m3	
n-Hexane (CAS 110-54-3)	TWA		18	0 mg/m3	
. , , ,			50	ppm	
logical limit values					
ACGIH Biological Exposu	ire Indices				
•	re Indices Value	Determinant	Specimen	Sampling Time	
ACGIH Biological Exposu	Value	Determinant 2,5-Hexanedio n, without hydrolysis	<b>Specimen</b> Urine	Sampling Time	
ACGIH Biological Exposu Components	Value 0.4 mg/l	2,5-Hexanedio n, without hydrolysis	•		
ACGIH Biological Exposu Components n-Hexane (CAS 110-54-3) * - For sampling details, ple	Value 0.4 mg/l	2,5-Hexanedio n, without hydrolysis	•		
ACGIH Biological Exposu Components n-Hexane (CAS 110-54-3)	Value 0.4 mg/l case see the source docu	2,5-Hexanedio n, without hydrolysis	•		

2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2) Can be absorbed through the skin. 2,2',4,5,5'-Pentachlorobiphenyl (CAS 37680-73-2) Can be absorbed through the skin. 2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3) Can be absorbed through the skin. 2,4,4'-Trichlorobiphenyl (CAS 7012-37-5) Can be absorbed through the skin. n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US - Minnesota Haz Subs: Skin designation applies 2,2',3,4,4',5,5'-Heptachlorobiphenyl (CAS 35065-29-3) Skin designation applies. 2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2) Skin designation applies. 2,2',4,5,5'-Pentachlorobiphenyl (CAS 37680-73-2) Skin designation applies. 2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3) Skin designation applies. Skin designation applies. 2,4,4'-Trichlorobiphenyl (CAS 7012-37-5) **US - Tennessee OELs: Skin designation** 2,2',3,4,4',5,5'-Heptachlorobiphenyl (CAS 35065-29-3) Can be absorbed through the skin. 2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2) Can be absorbed through the skin. 2,2',4,5,5'-Pentachlorobiphenyl (CAS 37680-73-2) Can be absorbed through the skin. 2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3) Can be absorbed through the skin. 2,4,4'-Trichlorobiphenyl (CAS 7012-37-5) Can be absorbed through the skin. **US ACGIH Threshold Limit Values: Skin designation** 2.2',3,4,4',5,5'-Heptachlorobiphenyl (CAS 35065-29-3) Can be absorbed through the skin. 2.2'.3.4.4'.5'-Hexachlorobiphenvl (CAS 35065-28-2) Can be absorbed through the skin. 2,2',4,5,5'-Pentachlorobiphenyl (CAS 37680-73-2) Can be absorbed through the skin. 2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3) Can be absorbed through the skin. 2,4,4'-Trichlorobiphenyl (CAS 7012-37-5) Can be absorbed through the skin. n-Hexane (CAS 110-54-3) Can be absorbed through the skin. US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) 2,2',3,4,4',5,5'-Heptachlorobiphenyl (CAS 35065-29-3) Can be absorbed through the skin. 2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2) Can be absorbed through the skin. 2,2',4,5,5'-Pentachlorobiphenyl (CAS 37680-73-2) Can be absorbed through the skin. 2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3) Can be absorbed through the skin. 2,4,4'-Trichlorobiphenyl (CAS 7012-37-5) 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. Provide eyewash station. Eye wash fountain and emergency showers are recommended.

# Individual protection measures, such as personal protective equipment Eye/face protection Chemical respirator with organic vapor cartridge and full facepiece. Skin protection Hand protection Hand protection Wear appropriate chemical resistant gloves. Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

<b>Respiratory protection</b>	Chemical respirator with organic vapor cartridge and full facepiece.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	Observe any medical surveillance requirements. When using do not 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.	

# 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	-137.74 °F (-94.3 °C) estimated
Initial boiling point and boiling range	155.66 °F (68.7 °C) estimated
Flash point	-7.0 °F (-21.7 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	1.1 % estimated
Flammability limit - upper (%)	7.5 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	201.3 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	437 °F (225 °C) estimated
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.4399 g/cm3 estimated
Explosive properties	Not explosive.
Flammability class	Flammable IB estimated
Oxidizing properties	Not oxidizing.
Specific gravity	1.44 estimated
10. Stability and reactivity	
Reactivity	The product is stable and non-reactive under normal conditions of use, sto

Reactivity Chemical stability	The product is stable and non-reactive under normal conditions of use, storage and transport. Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.

### 11. Toxicological information

### Information on likely routes of exposure

Inhalation	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	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

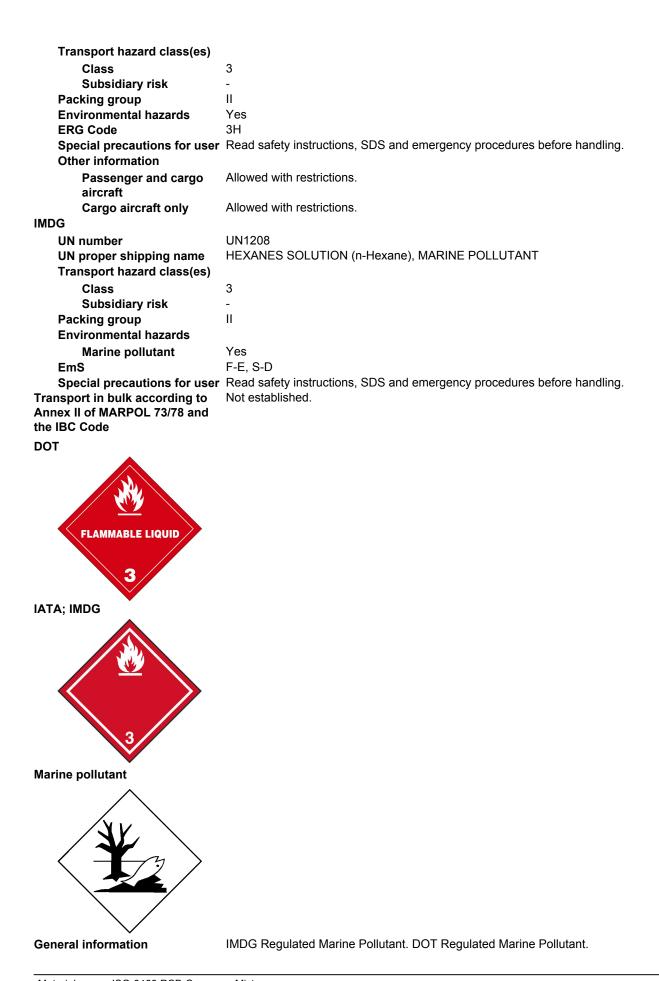
Acute toxicity May be fatal if swallowed and enters airways.

······	- ,	· · · · <b>/</b> ·
Components	Species	Test Results
2,2',3,4,4',5,5'-Heptachlor	obiphenyl (CAS 35065-29-3)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	8.65 g/kg
Oral		
LD50	Rat	0.794 g/kg
2,2',3,4,4',5'-Hexachlorobi	phenyl (CAS 35065-28-2)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	8.65 g/kg
Oral		
LD50	Rat	0.794 g/kg
2,2',4,4',5,5'-Hexachlorobi	phenyl (CAS 35065-27-1)	
<u>Acute</u>		
Oral		
LD50	Mouse	> 64.3 mg/kg
2,2',4,5,5'-Pentachlorobiph	nenyl (CAS 37680-73-2)	
<u>Acute</u>		
Dermal		
LD50	Rabbit	8.65 g/kg
Oral		
LD50	Rat	0.794 g/kg
2,2',5,5'-Tetrachlorobipher	nyl (CAS 35693-99-3)	
Acute		
Dermal		
LD50	Rabbit	8.65 g/kg
Oral		
LD50	Rat	0.794 g/kg
2,4,4'-Trichlorobiphenyl (C	CAS 7012-37-5)	
Acute		
Dermal		<i></i>
LD50	Rabbit	8.65 g/kg
Oral		
LD50	Rat	0.794 g/kg

Components	Species	Test Results	
n-Hexane (CAS 110-54-3)			
<u>Acute</u>			
Dermal			
LD50	Rabbit	> 2000 mg/kg, 4 Hours	
* Estimates for product may b	e based on additional compone	nt data not shown.	
Skin corrosion/irritation	Causes skin irritation.		
Serious eye damage/eye irritation	Causes serious eye irritation.		
Respiratory or skin sensitization	n		
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected t	o cause skin sensitization.	
Germ cell mutagenicity	No data available to indicate mutagenic or genotoxic.	product or any components present at greater than 0.1% are	
Carcinogenicity	Not classifiable as to carcinog	genicity to humans.	
IARC Monographs. Overall	Evaluation of Carcinogenicity		
2,2',3,4,4',5,5'-Heptachlo 2,2',3,4,4',5'-Hexachlorot 2,2',4,4',5,5'-Hexachlorot 2,2',4,5,5'-Pentachlorobip 2,2',5,5'-Tetrachlorobiphe 2,4,4'-Trichlorobiphenyl (		<ol> <li>Carcinogenic to humans.</li> </ol>	
Not regulated.		001-1000	
	ogram (NTP) Report on Carcir	logens	
2,2',3,4,4',5,5'-Heptachlo 2,2',3,4,4',5'-Hexachlorot 2,2',4,4',5,5'-Hexachlorot		Reasonably Anticipated to be a Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen.	
Reproductive toxicity	Suspected of damaging fertility or the unborn child.		
Specific target organ toxicity - single exposure	May cause drowsiness and d	izziness.	
Specific target organ toxicity - repeated exposure	Causes damage to organs through prolonged or repeated exposure.		
Aspiration hazard	May be fatal if swallowed and	enters airways.	
Chronic effects	Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.		
12. Ecological information	ı		
Ecotoxicity	Toxic to aquatic life with long	lasting effects.	
Components	Species	Test Results	
2,2',3,3',4,4',5,5'-Octachlorob	•		
Aquatic			
Fish	LC50 Fathead minn	ow (Pimephales promelas) > 0.0002 mg/l, 96 hours	
2,2',4,4',5,5'-Hexachlorobiphe		(	
Aquatic			
Fish	LC50 Fathead minn	ow (Pimephales promelas) > 0.0013 mg/l, 96 hours	
2,2',4,5,5'-Pentachlorobiphen	yi (UAS 3100U-13-2)		
Aquatic			
Fish	LC50 Fathead minn	ow (Pimephales promelas) > 0.01 mg/l, 96 hours	

Components		Species	Test Results
2,2',5,5'-Tetrachlorobiphen	yl (CAS 35693	-99-3)	
Aquatic			
Fish	LC50	Fathead minnow (Pimephales p	romelas) > 0.03 mg/l, 96 hours
2,4,4'-Trichlorobiphenyl (C	AS 7012-37-5)		
Aquatic			
Fish	LC50	Fathead minnow (Pimephales p	romelas) > 0.16 mg/l, 96 hours
n-Hexane (CAS 110-54-3)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales pi	romelas) 2.101 - 2.981 mg/l, 96 hours
* Estimates for product ma	y be based on	additional component data not shown.	
ersistence and degradability	y		
ioaccumulative potential			
Partition coefficient n-oc	tanol / water (	log Kow)	
2,2',3,4,4',5,5'-Heptachloro		4.11	
2,2',3,4,4',5'-Hexachlorobip		4.11 4.11	
2,2',4,5,5'-Pentachlorobiph 2,2',5,5'-Tetrachlorobiphen		4.11	
2,4,4'-Trichlorobiphenyl	y.	4.11	
n-Hexane		3.9	
obility in soil	No data a	vailable.	
ther adverse effects	No other potential,	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.	
3. Disposal considerat	ions		
isposal instructions	this mater with chem	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.	
ocal disposal regulations	Dispose i	Dispose in accordance with all applicable regulations.	
azardous waste code		The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
aste from residues / unuse oducts	product re	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).	
ontaminated packaging		Since emptied containers may retain product residue, follow label warnings even after container i emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.	
4. Transport information	on		
от			
UN number	UN1208		
UN proper shipping nam	e Hexanes,	solution (n-Hexane RQ = 5001 LBS),	MARINE POLLUTANT
Transport hazard class(e	s)		
Class	3	3	

	Transport hazard class(es)	
	Class	3
	Subsidiary risk	-
	Label(s)	3
	Packing group	11
	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	UN1208
	UN proper shipping name	Hexanes solution (n-Hexane)



### 15. Regulatory information

15. Regulatory informations		Chemical" as de	fined by the OSHA Hazard Communication
	Standard, 29 CFR 1910.1200	).	
	rt Notification (40 CFR 707, Sub		
2,2',3,3',4,4',5,5'-Octachlorobiphenyl (CAS 35694-08-7) 2,2',3,4,4',5,5'-Heptachlorobiphenyl (CAS 35065-29-3) 2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2) 2,2',4,4',5,5'-Hexachlorobiphenyl (CAS 35065-27-1) 2,2',4,5,5'-Pentachlorobiphenyl (CAS 37680-73-2) 2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3) 2,4,4'-Trichlorobiphenyl (CAS 7012-37-5) CERCLA Hazardous Substance List (40 CFR 302.4)		0.00005 % An 0.00005 % An 0.00005 % An 0.00005 % An 0.00005 % An	nual Export Notification required. nual Export Notification required.
n-Hexane (CAS 110-5 SARA 304 Emergency rel	,	Listed.	
Not regulated.			
	ated Substances (29 CFR 1910.1	001-1050)	
·	Reauthorization Act of 1986 (SA		
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No		
SARA 302 Extremely haz	ardous substance		
Not listed.			
SARA 311/312 Hazardous chemical	s No		
SARA 313 (TRI reporting) Chemical name		S number	% by wt.
n-Hexane	110	-54-3	99.99
Other federal regulations			
n-Hexane (CAS 110-5	ion 112 Hazardous Air Pollutant 4-3) ion 112(r) Accidental Release Pr		<sup>-</sup> R 68.130)
Safe Drinking Water Act (SDWA)	Not regulated.		
IS state regulations			known to the State of California to cause cancer a
US - California Propo	sition 65 - CRT: Listed date/Car	cinogenic subs	tance
2,2',4,4',5,5'-Hexa 2,2',4,5,5'-Pentacl 2,2',5,5'-Tetrachlo 2,4,4'-Trichlorobip	chlorobiphenyl (CAS 35065-28-2) chlorobiphenyl (CAS 35065-27-1) nlorobiphenyl (CAS 37680-73-2) robiphenyl (CAS 35693-99-3) henyl (CAS 7012-37-5)	Listed: Octobe Listed: Octobe Listed: Octobe Listed: Octobe	er 1, 1989 er 1, 1989 er 1, 1989 er 1, 1989
2,2',3,3',4,4',5,5'-0	sition 65 - CRT: Listed date/Dev Dctachlorobiphenyl (CAS	Listed: Januar	
35694-08-7) 2,2',3,4,4',5,5'-Hej 35065-29-3)	otachlorobiphenyl (CAS	Listed: Januar	y 1, 1991
2,2',3,4,4',5 <sup>'</sup> -Hexa 2,2',4,4',5,5'-Hexa 2,2',4,5,5'-Pentacl 2,2',5,5'-Tetrachlo	chlorobiphenyl (CAS 35065-28-2) chlorobiphenyl (CAS 35065-27-1) nlorobiphenyl (CAS 37680-73-2) robiphenyl (CAS 35693-99-3) henyl (CAS 7012-37-5)		y 1, 1991 y 1, 1991 y 1, 1991
			Regulations (Cal. Code Regs, tit. 22, 69502.3,
2,2',3,3',4,4',5,5'-0	Octachlorobiphenyl (CAS 35694-08	,	

2,2',3,4,4',5'-Hexachlorobiphenyl (CAS 35065-28-2) 2,2',4,4',5,5'-Hexachlorobiphenyl (CAS 35065-27-1) 2,2',4,5,5'-Pentachlorobiphenyl (CAS 37680-73-2) 2,2',5,5'-Tetrachlorobiphenyl (CAS 35693-99-3) 2,4,4'-Trichlorobiphenyl (CAS 7012-37-5) n-Hexane (CAS 110-54-3)

### International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
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	Yes

\*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	04-12-2018
Revision date	04-13-2018
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 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.