SAFETY DATA SHEET

GHEMSERVIGE

1. Identification

Product identifier	2,2',4,5',6-Pentachlorobiphenyl Solution			
Other means of identification				
Item	BZ-103J1			
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	7	
2. Hazard(s) identification				
Physical hazards	Flammable liquids		Category 2	

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 Category 1 exposure Aspiration hazard Category 1 Hazardous to the aquatic environment, acute **Environmental hazards** Category 2 hazard Hazardous to the aquatic environment, Category 2 long-term hazard **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',4,5',6-Pentachlorobiphenyl		60145-21-3	0.01

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	Water fog. Foam. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.
Unsuitable extinguishing	Do not use water jet as an extinguisher, as this will spread the fire.

Unsuitable extinguishing 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 meas	sures
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

containment and cleaning up 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.

Environmental precautions Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. 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 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".

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Avoid spark promoters. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

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

Components	Туре		Va	lue
n-Hexane (CAS 110-54-3)	PEL		18	00 mg/m3
			50	0 ppm
US. ACGIH Threshold Lim Components	it Values Type		Va	lue
n-Hexane (CAS 110-54-3)	TWA		50	ppm
US. NIOSH: Pocket Guide Components	to Chemical Hazards Type		Va	lue
2,2',4,5',6-Pentachlorobiphe nyl (CAS 60145-21-3)	e TWA		0.0	001 mg/m3
n-Hexane (CAS 110-54-3)	TWA			0 mg/m3 ppm
ological limit values				
ACGIH Biological Exposu	re Indices			
Components	Value	Determinant	Specimen	Sampling Time
n-Hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedio n, without hydrolysis	Urine	*
* - For sampling details, plea	ase see the source docu	ument.		
* - For sampling details, plea posure guidelines	ase see the source docu	ument.		
* - For sampling details, plea posure guidelines US - California OELs: Skir		iment.		
posure guidelines	n designation		e absorbed throu	ıgh the skin.
posure guidelines US - California OELs: Skir	n designation 3)	Can be	e absorbed throu	igh the skin.
posure guidelines US - California OELs: Skir n-Hexane (CAS 110-54 US ACGIH Threshold Limi n-Hexane (CAS 110-54	n designation 3) t Values: Skin designa 3)	Can be ition Can be	e absorbed throu	igh the skin.
posure guidelines US - California OELs: Skir n-Hexane (CAS 110-54 US ACGIH Threshold Limi	 designation -3) t Values: Skin designa -3) Explosion-proof gen changes per hour) s applicable, use proo maintain airborne le 	Can be ation Can be reral and local exha should be used. Ver ress enclosures, loo vels below recomm n airborne levels to	e absorbed throu aust ventilation. ntilation rates sh cal exhaust vent nended exposur o an acceptable	igh the skin. Good general ventilation (typically 10 air hould be matched to conditions. If illation, or other engineering controls to e limits. If exposure limits have not been
posure guidelines US - California OELs: Skir n-Hexane (CAS 110-54 US ACGIH Threshold Limi n-Hexane (CAS 110-54 propriate engineering	a designation 3) t Values: Skin designa 3) Explosion-proof gen changes per hour) s applicable, use proo maintain airborne le established, maintai fountain and emerge	Can be tion Can be reral and local exha should be used. Vel ress enclosures, loo vels below recomm n airborne levels to ency showers are r otective equipme	e absorbed throu aust ventilation. ntilation rates sh cal exhaust vent nended exposur o an acceptable ecommended. nt	igh the skin. Good general ventilation (typically 10 air hould be matched to conditions. If illation, or other engineering controls to e limits. If exposure limits have not been level. Provide eyewash station. Eye was
posure guidelines US - California OELs: Skir n-Hexane (CAS 110-54 US ACGIH Threshold Limi n-Hexane (CAS 110-54 propriate engineering ntrols	n designation 3) t Values: Skin designa 3) Explosion-proof gen changes per hour) s applicable, use proc maintain airborne le established, maintai fountain and emerge s, such as personal pr	Can be tion Can be reral and local exha should be used. Vel ress enclosures, loo vels below recomm n airborne levels to ency showers are r otective equipme	e absorbed throu aust ventilation. ntilation rates sh cal exhaust vent nended exposur o an acceptable ecommended. nt	igh the skin. Good general ventilation (typically 10 air hould be matched to conditions. If illation, or other engineering controls to e limits. If exposure limits have not been level. Provide eyewash station. Eye was
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9. Physical and chemical properties

Appearance

Physical state

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, storage and transport.
Chomical stability	Material is stable under normal conditions

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

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.

che. Nausea, vomiting. Sev s, swelling, and blurred vis e fatal if swallowed and entr cies on additional component da s skin irritation. s serious eye irritation. espiratory sensitizer. oduct is not expected to ca	Test Results > 2000 mg/kg, 4 Hours ata not shown. ause skin sensitization. but or any components present at greater than 0.1% are city to humans. Carcinogenic to humans.
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TP) Report on Carcinoge	
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cted of damaging fertility or	
use drowsiness and dizzin	IESS.
3 damage to organs throug	h prolonged or repeated exposure.
e fatal if swallowed and ente	ers airways.
s damage to organs throug I.	h prolonged or repeated exposure. Prolonged inhalation may be
o aquatic life with long lasti	ing effects.
Species	Test Results
Fathead minnow ((Pimephales promelas) 2.101 - 2.981 mg/l, 96 hours
on additional component da	ata not shown.
	<u>_</u>
	9
r (log Kow) 3. a available.	9
(on additional component d

13. Disposal considerations

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.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT			
UN number	UN1208		
UN proper shipping name	Hexanes, solution (n-Hexane RQ = 5001 LBS), MARINE POLLUTANT		
Transport hazard class(es)			
Class	3		
Subsidiary risk	-		
Label(s)	3		
Packing group	II		
Environmental hazards			
Marine pollutant	Yes		
•	Read safety instructions, SDS and emergency procedures before handling.		
Special provisions	IB2, T4, TP1		
Packaging exceptions	150		
Packaging non bulk	202		
Packaging bulk	242		
IATA			
UN number	UN1208		
UN proper shipping name	Hexanes solution (n-Hexane)		
Transport hazard class(es)			
Class	3		
Subsidiary risk			
Packing group	II		
Environmental hazards	Yes		
ERG Code	3H		
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.		
Other information			
Passenger and cargo	Allowed with restrictions.		
aircraft			
Cargo aircraft only	Allowed with restrictions.		
IMDG			
UN number	UN1208		
UN proper shipping name	HEXANES SOLUTION (n-Hexane), 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 established.		
Annex II of MARPOL 73/78 and			
the IBC Code			







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, Sul	bpt. D)		
2,2',4,5',6-Pentachlorobip CERCLA Hazardous Substa		0.00005 % Annual	Export Notification required	
n-Hexane (CAS 110-54-3) SARA 304 Emergency release notification		Listed.		
Not regulated. OSHA Specifically Regulate Not regulated.	d Substances (29 CFR 1910.	1001-1050)		
Superfund Amendments and Re	authorization Act of 1986 (S	ARA)		
Hazard categories	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No			
SARA 302 Extremely hazard	lous substance			
Not listed.				
SARA 311/312 Hazardous chemical	No			
SARA 313 (TRI reporting) Chemical name	CA	S number	% by wt.	
n-Hexane	110	0-54-3	99.99	

Other federal regulations Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List n-Hexane (CAS 110-54-3) Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130) Not regulated. Safe Drinking Water Act (SDWA) Not regulated. US state regulations WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm. US - California Proposition 65 - CRT: Listed date/Carcinogenic substance

2,2',4,5',6-Pentachlorobiphenyl (CAS 60145-21-3) Listed: October 1, 1989

US - California Proposition 65 - CRT: Listed date/Developmental toxin

2,2',4,5',6-Pentachlorobiphenyl (CAS 60145-21-3) Listed: January 1, 1991

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

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)	Yes
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	04-21-2014
Revision date	02-02-2021
Version #	03
NFPA ratings	Health: 2 Flammability: 3 Instability: 0

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Revision information