# SAFETY DATA SHEET

### CHEMSERVICE ....

### 1. Identification

Product identifier	2,3,5,5'-Tetrachlorobiphenyl		
Other means of identification			
Item	BZ-72		
Recommended use	For Laboratory Use Only		
Recommended restrictions	None known.		
Manufacturer/Importer/Supplier/I	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	i
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	Not classified.		
Health hazards	Acute toxicity, oral		Category 4
	Acute toxicity, dermal		Category 3
	Carcinogenicity		Category 1A
	Specific target organ toxicity, re exposure	peated	Category 2
Environmental hazards	Hazardous to the aquatic enviro	onment, acute	Category 1

hazard

long-term hazard Not classified.

OSHA defined hazards

OSHA defined hazarda

Label elements



Hazardous to the aquatic environment,

Signal word	Danger
Hazard statement	Harmful if swallowed. Toxic in contact with skin. May cause cancer. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. 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.
Response	If swallowed: Call a poison center/doctor if you feel unwell. If on skin: Wash with plenty of water. If exposed or concerned: Get medical advice/attention. Call a poison center/doctor if you feel unwell. Rinse mouth. Take off immediately all contaminated clothing and wash it before reuse. Collect spillage.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.

Category 1

### 3. Composition/information on ingredients

### Substances

Substances			
Chemical name	Common name and synonyms	CAS number	%
2,3,5,5'-Tetrachlorobiphenyl		41464-42-0	100
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptoms de	evelop or persist.	
Skin contact	Take off immediately all contaminated clothing. Wash off with soap and water. Get medical advice/attention if you feel unwell. Get medical attention if irritation develops and persists. 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	Rinse mouth. If vomiting occurs, keep head low so Get medical advice/attention if you feel unwell.	o that stomach content do	esn't get into the lungs.
Most important symptoms/effects, acute and delayed	Prolonged exposure may cause chronic effects.		
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat sy under observation. Symptoms may be delayed.	/mptomatically. Keep victi	m warm. Keep victim
General information	Take off immediately all contaminated clothing. IF advice/attention. If you feel unwell, seek medical a that medical personnel are aware of the material themselves. Show this safety data sheet to the do	advice (show the label wh s) involved, and take prec	ere possible). Ensure
5. Fire-fighting measures			
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon d	lioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this wi	ill spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be for	med.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protect	ctive clothing must be wor	n in case of fire.
Fire fighting equipment/instructions	Use water spray to cool unopened containers.		
Specific methods	Use standard firefighting procedures and consider	r the hazards of other invo	olved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release measures			
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people appropriate protective equipment and clothing dur or spilled material unless wearing appropriate pro Local authorities should be advised if significant s protection, see section 8 of the SDS.	ring clean-up. Do not touc tective clothing. Ensure a	h damaged containers dequate ventilation.
Methods and materials for containment and cleaning up	This material is classified as a water pollutant und from contaminating soil or from entering sewage a		
	Large Spills: Stop the flow of material, if this is wit possible. Cover with plastic sheet to prevent sprea and place into containers. Following product record	ading. Absorb in vermiculi	te, dry sand or earth
	Small Spills: Wipe up with absorbent material (e.g remove residual contamination.	J. cloth, fleece). Clean sur	face thoroughly to
	Never return spills to original containers for re-use	e. For waste disposal, see	section 13 of the SDS.

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

### 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. Provide adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

### 8. Exposure controls/personal protection

#### **Occupational exposure limits**

US. NIOSH: Pocket Guide to Chemical Hazards			
Material	Туре	Value	
2,3,5,5'-Tetrachlorobiphenyl (CAS 41464-42-0)	TWA	0.001 mg/m3	
Biological limit values	No biological exposure limits noted for the ingredient(s).		
Appropriate engineering controls	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.		
Individual protection measures,	such as personal protective equip	ment	
Eye/face protection	Wear safety glasses with side shields (or goggles).		
Skin protection			
Hand protection	Wear appropriate chemical resistar supplier.	nt gloves. Suitable gloves can be recommended by the glove	
Other	Wear appropriate chemical resistar	nt clothing. Use of an impervious apron is recommended.	
Respiratory protection	In case of insufficient ventilation, w	ear suitable respiratory equipment.	
Thermal hazards	Wear appropriate thermal protectiv	e clothing, when necessary.	
General hygiene considerations		ways observe good personal hygiene measures, such as and before eating, drinking, and/or smoking. Routinely wash nent to remove contaminants.	

### 9. Physical and chemical properties

Appearance		
Physical state	Solid.	
Form	Crystalline Solid	
Color	Not available.	
Odor	Not available.	
Odor threshold	Not available.	
рН	Not available.	
Melting point/freezing point	221.9 - 223.7 °F (105.5 - 106.5 °C)	
Initial boiling point and boiling range	686.3 °F (363.5 °C) estimated	
Flash point	Not available.	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not available.	
Upper/lower flammability or explosive limits		
Flammability limit - lower (%)	Not available.	
Flammability limit - upper (%)	Not available.	

Explosive limit - lower (	%) Not available.
Explosive limit - upper (	%) Not available.
Vapor pressure	0.000001 kPa at 25 °C
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	1.44 g/cm3 estimated at 30 °C estimated
Explosive properties	Not explosive.
Molecular formula	C12H6Cl4
Molecular weight	291.99
Oxidizing properties	Not oxidizing.
Specific gravity	1.44 at 30 °C

### 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	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

information on incory routes or e		
Inhalation	Prolonged inhalation may be harmful.	
Skin contact	Toxic in contact with skin.	
Eye contact	Direct contact with eyes may cause temporary irritation.	
Ingestion	Harmful if swallowed.	
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.	
Information on toxicological effe	ects	
Acute toxicity	Toxic in contact with skin. Harmful if swallowed.	
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.	
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.	
Respiratory or skin sensitization	1	
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.	
Skin sensitization	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	May cause cancer.	
IARC Monographs. Overall I	Evaluation of Carcinogenicity	
2,3,5,5'-Tetrachlorobiphenyl (CAS 41464-42-0) 1 Carcinogenic to humans.		

#### US. National Toxicology Program (NTP) Report on Carcinogens

2,3,5,5'-Tetrachlorobiphenyl (CAS 41464-42-0) Reasonably Anticipated to be a Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

This product is not expected to cause reproductive or developmental effects.
Not classified.
May cause damage to organs through prolonged or repeated exposure.
Not an aspiration hazard.
May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

### 12. Ecological information

Ecotoxicity	Very toxic to aquatic life with long lasting effects.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
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

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	UN3432		
UN proper shipping name	Polychlorinated biphenyls, solid		
Transport hazard class(es)			
Class	9		
Subsidiary risk	-		
Label(s)	9		
Packing group	Ш		
Environmental hazards			
Marine pollutant	Yes		
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.		
Special provisions	9, 81, 140, IB8, IP2, IP4, T3, TP33		
Packaging exceptions	155		
Packaging non bulk	212		
Packaging bulk	240		
ΙΑΤΑ			
UN number	UN3432		
UN proper shipping name	Polychlorinated biphenyls, solid		
Transport hazard class(es)			
Class	9		
Subsidiary risk	-		
Packing group	Ш		

Environmental hazards ERG Code Special precautions for user Other information	No. 9L Read safety instructions, SDS and emergency procedures before handling.
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.
IMDG	
UN number	UN3432
UN proper shipping name	POLYCHLORINATED BIPHENYLS, SOLID
Transport hazard class(es)	
Class	9
Subsidiary risk	-
Packing group	II
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-A
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.
DOT; IATA; IMDG	



#### Marine pollutant



General information

IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

#### 15. Regulatory information

US federal regulations

**ns** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

2,3,5,5'-Tetrachlorobiphenyl (CAS 41464-42-0) 0.00005 % Annual Export Notification required.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

#### SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

	Immediate Hazard - Yes Delayed Hazard - Yes Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No	δ (SARA)	
SARA 302 Extremely haz Not listed.	zardous substance		
SARA 311/312 Hazardou chemical	<b>s</b> Yes		
SARA 313 (TRI reporting Chemical name	)	CAS number	% by wt.
2,3,5,5'-Tetrachlorobi	ohenyl	41464-42-0	100
Other federal regulations			
Not regulated.	tion 112 Hazardous Air Pollu tion 112(r) Accidental Releas		68.130)
Not regulated.			
Clean Water Act (CWA) Section 112(r) (40 CFR 68.130)	Hazardous substance Bioaccumulative chemic Toxic pollutant	al of concern	
Safe Drinking Water Act (SDWA)	0 mg/l 0.0005 mg/l		
US state regulations			
US - New Jersey RTK - S	ubstances: Listed substanc	e	
US - Pennsylvania RTK - 2,3,5,5'-Tetrachlorobi	ohenyl (CAS 41464-42-0) Hazardous Substances: Sp ohenyl (CAS 41464-42-0) I Substances. CA Departme		a Health and Safety Code Section 11100)
	e Chemicals List. Safer Con	sumer Products Regul	ations (Cal. Code Regs, tit. 22, 69502.3, subd
(a))		samer i reducto rioga	
	ohenyl (CAS 41464-42-0) - <b>Substance List</b>		
2,3,5,5'-Tetrachlorobij US. Massachusetts RTK 2,3,5,5'-Tetrachlorobij		-	
2,3,5,5'-Tetrachlorobij US. Massachusetts RTK 2,3,5,5'-Tetrachlorobij US. New Jersey Worker	- Substance List ohenyl (CAS 41464-42-0) and Community Right-to-Kn ohenyl (CAS 41464-42-0)	-	
2,3,5,5'-Tetrachlorobij US. Massachusetts RTK 2,3,5,5'-Tetrachlorobij US. New Jersey Worker 2,3,5,5'-Tetrachlorobij US. Pennsylvania RTK - 2,3,5,5'-Tetrachlorobij	- Substance List ohenyl (CAS 41464-42-0) and Community Right-to-Kn ohenyl (CAS 41464-42-0)	ow Act	
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Country(s) or region	Inventory name	On inventory (yes/no)*
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	05-09-2016
Version #	01
NFPA ratings	Health: 3 Flammability: 0 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.
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	This product is furnished FOR LABORATORY USE ONLY.