

Last Revision Date: 9/19/2012

### SECTION 1 - CHEMICAL PRODUCT and COMPANY IDENTIFICATION

Catalog Number: BZ-74  
Description: 2,4,4',5-Tetrachlorobiphenyl  
Other Names: BZ# 74

Supplied by CHEM SERVICE, Inc. PO BOX 599, WEST CHESTER, PA 19381 (610)-692-3026  
EMERGENCY PHONE: 1-610-692-3026

### SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS: 32690-93-0  
Description: 2,4,4',5-Tetrachlorobiphenyl  
EINECS No: N/A  
Hazard Symbols: N/A

### SECTION 3 - HAZARDS IDENTIFICATION

Contact lenses should not be worn in the laboratory.  
All chemicals should be considered hazardous – Avoid direct physical contact!  
Suspected Carcinogen-may produce cancer.  
Can cause chloracne.  
Can cause discoloration of nails/skin/etc.  
Vapors can cause severe eye inflammation and swelling of adjoining tissues.  
Can cause gastro-intestinal disturbances.  
Possible teratogen; causes embryo-fetal damage.  
Possible mutagen-May cause birth defects in future generations.  
Can cause excessive discharge and distinctive hair follicles.

### SECTION 4 - FIRST AID MEASURES

An antidote is a substance intended to counteract the effect of a poison. It should be administered only by a physician or trained emergency personnel. Medical advice can be obtained from a POISON CONTROL CENTER.

In case of contact: Flush eyes continuously with water for 15-20 minutes. Flush skin with water for 15-20 minutes.

If no burns have occurred-use soap and water to cleanse skin.

If inhaled remove patient to fresh air. Administer oxygen if patient is having difficulty breathing.

If patient has stopped breathing administer artificial respiration.

If patient is in cardiac arrest administer CPR.

Continue life supporting measures until medical assistance has arrived.

Remove and wash contaminated clothing.

Induce vomiting if swallowed.

Do not administer liquids or induce vomiting to an unconscious or convulsing person.

If patient is vomiting-watch closely to make sure airway does not become obstructed by vomit.

Get medical attention if necessary.

### SECTION 5 - FIRE AND EXPLOSION DATA

Flash Point: 200<°C  
Extinguishing Media: Carbon dioxide, dry chemical powder or spray.  
Upper Explosion Limit: N/A  
Lower Explosion Limit: N/A  
Auto Ignition: N/A  
NFPA Hazard Rating: Health:      Reactivity:      Flammability:      Special:  
NFPA Scale:      0 = Least, 1 = Slight, 2 = Moderate, 3 = High, 4 = Severe

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Spills or leaks: Evacuate area. Wear appropriate OSHA regulated equipment. Ventilate area. Absorb on vermiculite or similar material. Sweep up and place in an appropriate container. Hold for disposal.

Wash contaminated surfaces to remove any residues.  
Remove contaminated clothing and wash before reuse.

**SECTION 7 - HANDLING AND STORAGE***Handling:*

This chemical should be handled only in a hood. Eye shields should be worn. Use appropriate OSHA/MSHA approved safety equipment. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Wash thoroughly after handling.

*Storage:*

Store in a cool dry place. Store only with compatible chemicals. Keep tightly closed.

**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

OSHA PEL (TWA): 1mg/m<sup>3</sup> (skin)  
ACGIH TLV (TWA): 1mg/m<sup>3</sup> (skin)  
ACGIH TLV (STEL): N/A

*Personal Protective Equipment*

Eyes: Wear safety glasses.  
Skin: Wear appropriate protective gloves to prevent skin exposure.  
Clothing: Wear appropriate protective clothing to minimize contact with skin.  
Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 requirements must be followed whenever workplace conditions warrant a respirator's use.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

Color: N/A  
Phase: Crystalline solid  
Melting Point: 121-123°C  
Boiling Point: N/A  
Density: N/A  
Evaporation Rate (Butyl acetate-1): N/A  
Vapor Pressure: <0.1mm @38°C  
Vapor Density: N/A  
Odor: Aromatic  
Solubility in water: Insoluble (immiscible)  
Molecular Weight: N/A  
Molecular Formula: N/A

**SECTION 10 - STABILITY AND REACTIVITY**

Emits toxic fumes under fire conditions.  
Incompatible with strong oxidizing agents.  
Incompatible with active metals (e.g. Sodium).

**SECTION 11 - TOXICOLOGY INFORMATION**

RTECS: N/A  
Oral Rat or Mouse LD50: N/A  
Dermal Rat or Mouse LD50: N/A  
Rat or Mouse LC50: N/A

*Carcinogenicity*

OSHA:No IARC:Yes NTP:Yes ACGIH: No NIOSH:No Other:No

This chemical is considered to be a CARCINOGEN by the state of California.

This chemical is considered to cause DEVELOPMENTAL TOXICITY by the state of California.

**SECTION 12 - ECOLOGICAL INFORMATION**

Ecotoxicity: Not Available

Environmental Fate: Not Available

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Dispose in accordance with Federal, State and Local regulations.

**SECTION 14 - TRANSPORTATION INFORMATION**

UN Number: UN2315  
Class: 9  
Packing Group: II  
Proper Shipping Name: Polychlorinated biphenyls

**SECTION 15 - REGULATORY INFORMATION**

European Labeling in Accordance with EC Directives

Hazard Symbols: N/A

Risk Phrases: N/A

Safety Phrases: N/A

**SECTION 16 - OTHER INFORMATION**

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 MSDS 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 Material Safety Data Sheet (MSDS) 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 MSDS for a solution or mixture the user should refer to the MSDS for every component of the solution or mixture. Chem Service warrants that this MSDS 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 MSDS is provided gratis and CHEM SERVICE, INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR CONTINGENT DAMAGES.

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