

**MATERIAL SAFETY DATA SHEET**

UCT SPECIALTIES, INC



**Date Issued:** 07/13/2010  
**MSDS No:** B2494  
**Date Revised:** 06/28/2012  
**Revision No:** 2

**1. PRODUCT AND COMPANY IDENTIFICATION****PRODUCT CODE:** B2494**PRODUCT FORMULATION NAME:** Bis (3-Triethoxysilylpropyl) tetrasulfide**MANUFACTURER**

UCT Specialties, Inc.  
 2731 Bartram Road  
 Bristol, PA 19007

**Emergency Contact:** Jon Telepchak**E-Mail:** jtelepchak@unitedchem.com**Emergency Phone:** 215-781-9255 ex141**Alternate Emergency Phone:** 800-385-3153**24 HR. EMERGENCY TELEPHONE NUMBERS**

CHEMTREC (US Transportation) : 1-800-424-9300  
 or 1-703-527-3887

**2. HAZARDS IDENTIFICATION****HAZARD DESIGNATION****EMERGENCY OVERVIEW****PHYSICAL APPEARANCE:** Pale yellow liquid**IMMEDIATE CONCERNS:** Avoid inhalation, eye contact, ingestion, skin contact.**POTENTIAL HEALTH EFFECTS****EYES:** Contact may cause eye irritation.**SKIN:** Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis) or defatting of the skin.**INGESTION:** Expected to be slightly toxic by ingestion.**INHALATION:** Can cause respiratory irritation.**SIGNS AND SYMPTOMS OF OVEREXPOSURE****ACUTE TOXICITY:** Direct contact with material may irritate eyes, skin, respiratory tract and also include gastrointestinal upset and cramping, if swallowed.**CHRONIC EFFECTS:** None known.**REPRODUCTIVE TOXICITY****REPRODUCTIVE EFFECTS:** To the best of our knowledge the reproductive properties of this product have not been fully investigated.**MEDICAL CONDITIONS AGGRAVATED:** Preclude from exposure those individuals having a history of respiratory illness or pre-existing eye or skin condition.**3. COMPOSITION / INFORMATION ON INGREDIENTS**

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Chemical Name	CAS
Bis (3-Triethoxysilylpropyl) Tetrasulfide	40372-72-3

#### 4. FIRST AID MEASURES

**EYES:** Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**SKIN:** Immediately wash skin with soap and plenty of water. Get medical attention if irritation develops or persists.

**INGESTION:** Call a physician or poison control center immediately. Only induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person. If vomiting should occur spontaneously, keep airway clear.

**INHALATION:** If exposed to excessive levels of fumes, remove to fresh air. If breathing is difficult get immediate medical attention. Get medical attention if cough or other symptoms develop.

#### 5. FIRE FIGHTING MEASURES

**FLASH POINT AND METHOD:** COC Flash point: > 100 C ( > 212.0F)

**FLAME PROPAGATION OR BURNING RATE OF SOLIDS:** Not considered to be a fire hazard

**EXTINGUISHING MEDIA:** Use any means suitable for extinguishing surrounding fire

**HAZARDOUS COMBUSTION PRODUCTS:** Can include ethanol, carbon monoxide, carbon dioxide and hydrogen sulfide

**EXPLOSION HAZARDS:** Not considered to be an explosion hazard.

**FIRE FIGHTING EQUIPMENT:** As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

#### 6. ACCIDENTAL RELEASE MEASURES

**SMALL SPILL:** Absorb spill with inert material.

**LARGE SPILL:** Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

**COMMENTS:** Ventilate the spill area, wear appropriate personal protective equipment as specified in Expose Controls/ Personal Protection Section. Treat or dispose of water material in accordance with all local, state/provincial, and national requirements.

#### 7. HANDLING AND STORAGE

**GENERAL PROCEDURES:** Avoid contact with skin, eyes and respiratory. Use with adequate ventilation.

**HANDLING:** Store in a cool dry area, eliminate all sources of ignition.

**STORAGE:** Store in a well ventilated cool dry place.

**COMMENTS:** Follow all MSDS/Label precautions even after container is emptied because they may retain product residues. Empty drums should be completely drained, properly bunged, and promptly returned to a drum reconditioner, or properly disposed of.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Local exhaust ventilation may be necessary to control any fume levels during the use of this product.

##### PERSONAL PROTECTIVE EQUIPMENT

**EYES AND FACE:** Use chemical goggles.

**SKIN:** Wear protective gloves to minimize skin contamination

**RESPIRATORY:** A NIOSH/MSHA Approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed

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exposure limits.

Where a fume hood enclosure is not available a respiratory protection program that meets OSHA's 29 CFR 1910-134 and ANSI Z88-2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**OTHER USE PRECAUTIONS:** Personal Protective Equipment Recommendations: Gloves, Goggles, Face Shield, Dust and Vapor Respirator, Full Suit.

**COMMENTS:** To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE standard (29 CFR 1920.132) be conducted before using this product.

A hazard assessment should be done at your facility to determine what personal protective equipment will be required for your process.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:** Liquid

**ODOR:** Light odor of Ethyl Alcohol

**COLOR:** pale yellow

**pH:** Not Available.

**VAPOR PRESSURE:** 1mm Hg @68 F

**VAPOR DENSITY:** n/a (Air= 1)

**FLASH POINT AND METHOD:** COC Flash point: > 100 C ( > 212.0F)

**SOLUBILITY IN WATER:** Insoluble

**VISCOSITY:** 9.5mPa.s

**MOLECULAR WEIGHT:** 538.97

**COMMENTS:** Solubility in Acetone: Practically 100%

**10. STABILITY AND REACTIVITY**

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**STABILITY:** This product is normally stable. Decomposition begins at >250 C

**POLYMERIZATION:** Will not occur.

**INCOMPATIBLE MATERIALS:** Water, Acids and Alkalines react with product to form Ethanol

**11. TOXICOLOGICAL INFORMATION****ACUTE**

**ORAL LD<sub>50</sub>:** LD50 (oral, rat): > 17,500 mg/kg.

LC50 (rat): >8mg/15M

**INHALATION LC<sub>50</sub>:** Avoid inhalation

**EYE EFFECTS:** No information found. Avoid contact.

**SKIN EFFECTS:** No information found. Avoid contact.

**CHRONIC:** To the best of our knowledge the chronic effects properties of this product have not been fully investigated.

**REPRODUCTIVE EFFECTS:** To the best of our knowledge birth defects/reproductive properties of this product have not been fully investigated.

**12. ECOLOGICAL INFORMATION**

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**ENVIRONMENTAL DATA:** No information available.

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD:** It is recommended that waste generators determine whether a discarded chemical is classified as a hazardous waste.

When a decision is made to discard this material, as received, is it classified as a hazardous waste? Yes! Additionally, waste generators must consult with their waste broker, state, and local hazardous waste regulations to insure complete and accurate classification.

Incineration is recommended.

**EMPTY CONTAINER:** Uncleaned empty containers should be disposed of in the same manner as the contents.

**14. TRANSPORT INFORMATION****DOT (DEPARTMENT OF TRANSPORTATION)**

**PROPER SHIPPING NAME:** B2494

**TECHNICAL NAME:** Bis (3-Triethoxysilylpropyl) Tetrasulfide

**15. REGULATORY INFORMATION****UNITED STATES****TSCA (TOXIC SUBSTANCE CONTROL ACT)**

**TSCA STATUS:** This product is listed on the TSCA Inventory.

**OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)**

**29 CFR1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS:** material is not considered a work place hazard

**CANADA**

**WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM):** Material is not considered a workplace hazard

**EUROPEAN COMMUNITY****EEC LABEL SYMBOL AND CLASSIFICATION**

S16.1 - Keep away from source of ignition.

S23.4 - Do not breathe fumes/vapor.

S24/25 - Avoid contact with skin and eyes.

S3/7/9 - Keep container tightly closed in a cool, well-ventilated place.

S38 - In case of insufficient ventilation, wear suitable respiratory equipment.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

**16. OTHER INFORMATION**

**REASON FOR ISSUE:** Revision

**APPROVED BY:** Jon Telepchak      **TITLE:** Chief Operations Officer

**PREPARED BY:** Ig

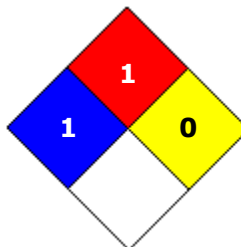
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**INFORMATION CONTACT:** jtelepchak@unitedchem.com

**REVISION SUMMARY:** This MSDS replaces the 06/28/2012 MSDS.

**HMIS RATING**

<b>HEALTH</b>	<input type="checkbox"/>	<b>0</b>
<b>FLAMMABILITY</b>	<input type="checkbox"/>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<input type="checkbox"/>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<input type="checkbox"/>	

**NFPA CODES**

**MANUFACTURER SUPPLEMENTAL NOTES:** All technical data is believed to be correct but does not purport to be all inclusive and shall be used only as a guide.

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