

MATERIAL SAFETY DATA SHEET



Date Issued: 08/10/2010
MSDS No: 2010.136

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE: B2408

PRODUCT FORMULATION NAME: Bis(hydroxyethyl)aminopropyltriethoxysilane

MANUFACTURER

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

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E-Mail: jtelepchak@unitedchem.com

Product Stewardship: 215-781-9255
ex141

Service Number: 717-247-0896

24 HR. EMERGENCY TELEPHONE NUMBERS

CANUTEC (Canadian Transportation) :(613) 996 - 6666

CHEMTEC (US Transportation) :(800) 424 - 9300

2. HAZARDS IDENTIFICATION

HAZARD DESIGNATION

"Xi" - Irritant

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Colorless to Yellow Liquid

IMMEDIATE CONCERNS: Material may form a siloxane polymer on the skin, eyes, or in the lungs. In the event of direct contact of the liquid with these tissues, seek medical attention.

POTENTIAL HEALTH EFFECTS

EYES: Severely irritating. Conjunctivitis, corneal damage.

SKIN: Defatting, rashes, irritation. May be harmful. Avoid contact

INGESTION: Irritation, Effects undetermine. Treat as toxic

INHALATION: *Irritant, may be harmful avoid contact

SIGNS AND SYMPTOMS OF OVEREXPOSURE

ACUTE TOXICITY: Material generates Ethanol on contact with water or moisture on the skin, eyes and mucous membranes, and has an irritating, dehydrating effect on overexposed tissues.

Overexposure to Ethanol by skin absorption, inhalation or ingestion may have a narcotic effect (headache, nausea, drowsiness). Ethanol is metabolized to Acetaldehyde and Acetic acid resulting in metabolic acidosis, CNS depression, death due to respiratory arrest.

COMMENTS: The information provided here is based on published data for structurally analogous chemicals (not bio-assay of this specific substance)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS	EINECS
Bis(hydroxyethyl)aminopropyltriethoxysilane	62	7538-44-5	
Ethanol	32	64-17-5	200-578-6

4. FIRST AID MEASURES

EYES: Flush with clean water for at least 15 minutes and consult physician

SKIN: Scrub with soap and water. Remove contaminated clothing and shoes

INGESTION: Give one full cup of milk or water. Induce vomiting

Get Medical Attention!

INHALATION: Remove victim to fresh air, give CPR or oxygen if necessary

COMMENTS: If symptoms persist, get medical attention

Never give anything by mouth to an unconscious person

5. FIRE FIGHTING MEASURES

FLASH POINT AND METHOD: (75°F)

FLAMMABLE LIMITS: 3.3% to 19%

Notes: STP in Air

EXTINGUISHING MEDIA: CO₂, foam, dry chemical, water spray or fog

FIRE FIGHTING EQUIPMENT: Fire fighters must wear positive pressure, self contained breathing apparatus and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Absorb spilled material with suitable chemical binder. Shovel absorbent into suitable waste container. Flush spill area with large amount of water. Do not contaminate soil, groundwater, or surface water.

SPECIAL PROTECTIVE EQUIPMENT: Wear appropriate personal protective equipment as specified in section 8.

7. HANDLING AND STORAGE

HANDLING: Container requires grounding during use.

STORAGE: Store in a cool and dry place. Protect from moisture. Protect from heat, direct sunlight, and source of ignition. Maintain tightly closed container. Store away from alkaline, acidic, and oxidizing materials. Provide adequate ventilation

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: Use impervious gloves. Use impervious clothing as necessary to protect against skin contact

RESPIRATORY: Local Exhaust required. Explosion- proof mechanical ventilation required.

If exposure exceeds TVL, use appropriate NIOSH approved respiratory

WORK HYGIENIC PRACTICES: General industrial hygiene practice.

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 1910.132) be conducted before using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Alcohol odor

COLOR: Colorless to yellow

PERCENT VOLATILE: 38

VAPOR DENSITY: 1.6

BOILING POINT: 380.2°C /760mm

MELTING POINT: 17.8°C

FLASH POINT AND METHOD: (75°F)

SOLUBILITY IN WATER: Soluble/ reacts

SPECIFIC GRAVITY: 0.920

MOLECULAR WEIGHT: 309.47

10. STABILITY AND REACTIVITY

STABILITY: (UNDER NORMAL CONDITIONS): Stable under ordinary conditions of use and storage.

POLYMERIZATION: Hazardous polymerization will not occur

CONDITIONS TO AVOID: Water or moist air. Exposure to heat, sparks or other source of ignition

HAZARDOUS DECOMPOSITION PRODUCTS: Generates Ethanol; TLV (TWS) = 1000ppm

INCOMPATIBLE MATERIALS: oxidizing agents, alkali and acid

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY

IARC: No

NTP: No

OSHA: No

COMMENTS: No information available

Material generates Ethanol on contact with water or moisture.

Ethanol: Toxicity Data: orl-chd LDLo: 2000ppm; orl-man TDLo: 1.4 ppm; ihl-rat LC50: 20,000ppm; skn-rbt LDLo: 20,000 ppm.

Irritation Data: eye-hmn 20ppm, skn-rct 500 mg/ 24 hours SEV

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No information available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Incineration is recommended . Treat or dispose of waste material in accordance with all local, state/provincial and national requirements.

EMPTY CONTAINER: Containers of this material may be hazardous when empty since they retain product residues(liquid); observe all warnings and precautions listed for this product.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)**PROPER SHIPPING NAME:** Ethanol Solution**PRIMARY HAZARD CLASS/DIVISION:** 3**UN/NA NUMBER:** 1170**PACKING GROUP:** III**LABEL:** Flammable liquid**15. REGULATORY INFORMATION****UNITED STATES****DOT LABEL SYMBOL AND HAZARD CLASSIFICATION**

Flammable Liquid-Secondary

TSCA (TOXIC SUBSTANCE CONTROL ACT)

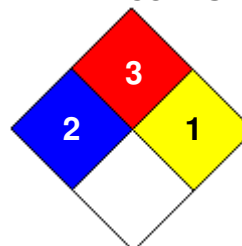
Chemical Name	CAS
Ethanol	64-17-5

TSCA STATUS: This product is listed on the TSCA Inventory.**EUROPEAN COMMUNITY****EEC LABEL SYMBOL AND CLASSIFICATION**

"Xi" - Irritant

16. OTHER INFORMATION**APPROVED BY:** Office of Environmental Health Safety & Security **TITLE:** Dir. of Env. Health Safety & Security**PREPARED BY:** jnm**INFORMATION CONTACT:** jtelepchak@unitedchem.com**REVISION SUMMARY:** New MSDS**HMIS RATING**

HEALTH:	2
FLAMMABILITY:	3
PHYSICAL HAZARD:	1
PERSONAL PROTECTION:	

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.**MANUFACTURER DISCLAIMER:** The data in this Material Safety Data Sheet relates only to the specific material designated herein.

It does not relate to use in combination with any other material or in any process.

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