

# MATERIAL SAFETY DATA SHEET

## UCT SPECIALTIES, INC



**Date Issued:** 03/08/2010  
**MSDS No:** G6720  
**Date Revised:** 08/20/2012  
**Revision No:** 3

### 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT CODE:** G6720

**PRODUCT FORMULATION NAME:** 3-Glycidoxypropyltrimethoxysilane

**CHEMICAL FAMILY:** Alkoxysilane

#### 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

"Xi" - Irritant

"T" - Toxic

R20/22: Harmful by inhalation and if swallowed.

#### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Clear to light pale yellow liquid.

**IMMEDIATE CONCERNS:** Harmful if inhaled or ingested.

#### POTENTIAL HEALTH EFFECTS

**EYES:** Causes eye irritation.

**SKIN:** A single short exposure (less than 24 hours) may irritate. Repeated prolonged contact (24 to 48 hours) may irritate moderately.

**SKIN ABSORPTION:** May cause irritation with dryness and abrasion.

**INGESTION:** Product generates methyl alcohol which may cause blindness and possibly death if swallowed.

**INHALATION:** Product generates methyl alcohol which may cause blindness and damage to nervous system.

#### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**EYES:** Contact may cause eye irritation.

**SKIN:** Contact causes skin irritation.

**SKIN ABSORPTION:** May cause irritation with dryness and abrasion.

**INGESTION:** May be harmful if ingested. Seek medical treatment immediately. Ingestion would lead to symptoms similar to inhalation and would also include gastrointestinal upset and cramping.

**INHALATION:** Product generates methyl alcohol which may cause blindness and damage to nervous system.

**G6720**

**ACUTE TOXICITY:** Irritation to eyes or skin.

**CHRONIC EFFECTS:** Repeated exposure: Product generates methyl alcohol which may cause blindness and possibly death if swallowed.

**CARCINOGENICITY:** None known.

**REPRODUCTIVE TOXICITY**

**TERATOGENIC EFFECTS:** None known.

**MEDICAL CONDITIONS AGGRAVATED:** None known.

**ROUTES OF ENTRY:** Absorption, ingestion, inhalation.

**3. COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS
3-Glycidoxypropyltrimethoxysilane	2530-83-8

**4. FIRST AID MEASURES**

**EYES:** Immediately flush eyes with plenty of water. Get medical attention, if irritation persists.

**SKIN:** Immediately flush skin with plenty of water for at least 15 minutes and wash with soap and water. Get medical attention if irritation develops or persists.

**INGESTION:** Call a physician or Poison Control Center immediately.

**INHALATION:** Remove to fresh air. If irritation continues get immediate medical attention.

**NOTES TO PHYSICIAN:** Treat same as methyl alcohol poisoning.

**5. FIRE FIGHTING MEASURES**

**FLASH POINT AND METHOD:** TCC Flash Point: 101.10 C (214.0 F)

**FLAMMABLE LIMITS:** N/A to N/A

**EXTINGUISHING MEDIA:** Water, carbon dioxide, foam or dry powder. Water can be used to cool fire exposed containers.

**HAZARDOUS COMBUSTION PRODUCTS:** Not Available.

**EXPLOSION HAZARDS:** Not Available.

**FIRE FIGHTING PROCEDURES:** Evacuate non-emergency personnel to a safe area. As in any fire, wear self-contained breathing apparatus, pressure demand MSHA/NIOSH (approved or equivalent) and full protective gear.

**FIRE FIGHTING EQUIPMENT:** Firefighters must wear positive pressure, self-contained breathing apparatus and full protective clothing.

**FIRE EXPLOSION:** Not Available.

**SENSITIVE TO STATIC DISCHARGE:** NA = Not Applicable.

**SENSITIVITY TO IMPACT:** NA = Not Applicable.

**6. ACCIDENTAL RELEASE MEASURES**

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

**LARGE SPILL:** Contain spilled liquid with sand or earth. Absorb remainder with inert material (eg, dry sand, earth or vermiculite), then place in a chemical waste container.

**GENERAL PROCEDURES:** Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

**SPECIAL PROTECTIVE EQUIPMENT:** Wear appropriate personal protective equipment. Protect skin, lungs and eyes from exposure.

**G6720****7. HANDLING AND STORAGE**

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

**HANDLING:** Use with adequate ventilation. Product evolves methyl alcohol when exposed to water or humid air. Provide ventilation during use to control exposure. Mechanical Ventilation is strongly recommended.

**STORAGE:** Keep container closed and store away from water or moisture.

**STORAGE TEMPERATURE:** Store in a cool place in original container and protect from sunlight.

**SHELF LIFE:** 6 months @ 25 C

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** Use only with adequate ventilation. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

**PERSONAL PROTECTIVE EQUIPMENT**

**EYES AND FACE:** 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 exposure limits. When splashing of this material may occur, chemical goggles and a face shield are recommended.

**SKIN:** Wear impermeable gloves to minimize skin contamination. Wash hands thoroughly after handling.

**RESPIRATORY:** Where a fume hood 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.

**PROTECTIVE CLOTHING:** 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.

**WORK HYGIENIC PRACTICES:** General industrial hygiene practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**PHYSICAL STATE:** Liquid.

**ODOR:** Aromatic odor.

**COLOR:** Clear to light yellow.

**pH:** Not Available.

**PERCENT VOLATILE:** Not Available.

**VAPOR PRESSURE:** Not Available.

**VAPOR DENSITY:** Not Available.

**BOILING POINT:** Not Available.

**FREEZING POINT:** Not Available.

**MELTING POINT:** Not Available.

**FLASH POINT AND METHOD:** TCC Flash Point: 101.10 C (214.0 F)

**SOLUBILITY IN WATER:** Reacts.

**DENSITY:** Not Available.

**SPECIFIC GRAVITY:** 1.07@ 25 C (Water =1)

**VISCOSITY:** 3.00 CST

**10. STABILITY AND REACTIVITY**

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

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

**G6720**

**POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** None

**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: silicon dioxide, carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.

**INCOMPATIBLE MATERIALS:** Oxidizing material can cause a reaction. Water, moisture, or humid air can cause hazardous vapors to form.

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

**ORAL LD<sub>50</sub>:** Product generates methyl alcohol which may cause blindness and possibly death if swallowed.

**INHALATION LC<sub>50</sub>:** Product generates methyl alcohol which may cause blindness and possibly death if swallowed.

**EYE EFFECTS:** Complete information not yet available.

**SKIN EFFECTS:** Not yet determined.

**CHRONIC:** Not Available.

**SUBCHRONIC:** Not Available.

**GENERAL COMMENTS:** Methyl alcohol causes central nervous system depression.

**12. ECOLOGICAL INFORMATION**

**ENVIRONMENTAL DATA:** No data available. Contact Env. Dept.

**CHEMICAL FATE INFORMATION:** No data available. Contact Env. Dept.

**13. DISPOSAL CONSIDERATIONS**

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

**FOR LARGE SPILLS:** Stop leak at source, contain spilled material. Pump spilled material into a drum, or absorb with suitable chemical binder (vermiculite or kitty litter). Place contents into drum. Dispose of by incineration.

**EMPTY CONTAINER:** Since empty containers retain product residue, follow hazard precautions even after container is emptied. Consult with your waste broker or your local, regional authorities.

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

**PROPER SHIPPING NAME:** Chemical Not Regulated

**TECHNICAL NAME:** 3-Glycidoxypropyltrimethoxysilane

**15. REGULATORY INFORMATION****EUROPEAN COMMUNITY**

**G6720****EEC LABEL SYMBOL AND CLASSIFICATION**

"Xi" - Irritant



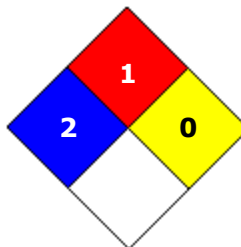
"T" - Toxic

R20/22: Harmful by inhalation and if swallowed.

S7/8: Keep container tightly closed and dry.

**16. OTHER INFORMATION****REASON FOR ISSUE:** Revision**APPROVED BY:** Jon Telepchak    **TITLE:** Chief Operations Officer**PREPARED BY:** Ig**INFORMATION CONTACT:** jtelepchak@unitedchem.com**REVISION SUMMARY:** This MSDS replaces the 06/27/2012 MSDS. Revised: **Section 8: PERSONAL PROTECTIVE EQUIPMENT - SKIN.****HMIS RATING**

<b>HEALTH</b>	<input type="checkbox"/>	<b>2</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"/>	<b>1</b>

**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.

THE INFORMATION AND RECOMMENDATIONS CONTAINED IN THIS MATERIAL SAFETY DATA SHEET HAVE BEEN COMPILED FROM SOURCES BELIEVED TO BE RELIABLE AND TO REPRESENT THE BEST OPINION ON THE SUBJECT AS OF THE DATE ON THIS SHEET. HOWEVER, NO WARRANTY, GUARANTEE OR REPRESENTATION, EXPRESS OR IMPLIED, IS MADE BY UCT, INC. AS TO THE CORRECTNESS OR SUFFICIENCY OF THIS INFORMATION OR TO THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.