

# MATERIAL SAFETY DATA SHEET



Date Issued: 09/10/2010  
MSDS No: 2010.321

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT CODE:** M9100  
**PRODUCT FORMULATION NAME:** Methyltrimethoxysilane  
**MOLECULAR FORMULA:** C<sub>4</sub>H<sub>12</sub>O<sub>3</sub>Si

### MANUFACTURER

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

**Emergency Contact:** Jon Telepchak  
**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

### EMERGENCY OVERVIEW

**PHYSICAL APPEARANCE:** Clear 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:** \*Moderately irritating. May be harmful. Avoid contact

**SKIN:** Mildly irritating. May be harmful. avoid contact

**INGESTION:** \*Irritant. Effects undetermined. Treat as toxic

**INHALATION:** Irritant. Pulmonary toxin

### SIGNS AND SYMPTOMS OF OVEREXPOSURE

**ACUTE TOXICITY:** Material generates Methanol (toxic) on contact with water or moisture on the skin eyes and mucous membrane.

Methanol is a tissue irritant that may be absorbed through the skin produce systemic toxic effects. Vapors may be inhaled and metabolized to Formaldehyde and Formic acid resulting in systemic acidosis, blindness, and ultimately death from respiratory arrest. Liquid produces effect similar to inhalation overexposure when ingested

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS
Methyltrimethoxysilane	1185-55-3

## 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 to dilute ingested material, 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:** 10°C

**EXTINGUISHING MEDIA:** Water, CO<sub>2</sub>, Foam, Dry chemical

**FIRE FIGHTING EQUIPMENT:** Fire Fighters must wear positive- pressured, self-contained breathing apparatus and full protective clothing.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Toxic fumes of carbon monoxide, carbon dioxide and silicon oxide

## 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. Maintain nitrogen blanket and tightly closed container. Protect from moisture. Protect from heat, direct sunlight and source of ignition. Store away from alkaline, and oxidizing materials.

## 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

**COLOR:** Clear

**VAPOR DENSITY:** > 1

**BOILING POINT:** 102°C /760mm

**FLASH POINT AND METHOD:** 10°C

**SOLUBILITY IN WATER:** Reacts

**SPECIFIC GRAVITY:** 0.945 to 0.955

**MOLECULAR WEIGHT:** 136.22

## 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:** Contact with water or moist air. Generates methanol; TLV (skin, TWA)=200ppm. Exposure to heat, sparks, direct sunlight or other sources of ignition

**INCOMPATIBLE MATERIALS:** oxidizing agents, alkali and acid

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**EYES:** 500 mg/ 24 hours MOD IRR -rbt

**DERMAL LD<sub>50</sub>:** 500 mg/ 24 hours MLD IRR - rbt

**ORAL LD<sub>50</sub>:** 12500 mg/kg- Rat

### CARCINOGENICITY

**IARC:** No

**NTP:** No

**OSHA:** No

## 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

## 15. REGULATORY INFORMATION

### UNITED STATES

#### TSCA (TOXIC SUBSTANCE CONTROL ACT)

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

## 16. OTHER INFORMATION

**APPROVED BY:** Office of Environmental Health Safety & Security      **TITLE:** Dir. of Env. Health Safety & Security

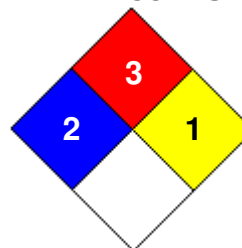
**PREPARED BY:** jnm

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

**REVISION SUMMARY:** New MSDS

**HMIS RATING**

<b>HEALTH:</b>	<b>3</b>
<b>FLAMMABILITY:</b>	<b>2</b>
<b>PHYSICAL HAZARD:</b>	<b>1</b>
<b>PERSONAL PROTECTION:</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.

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

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