

# MATERIAL SAFETY DATA SHEET



Date Issued: 07/26/2010  
MSDS No: 2010.045

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT CODE:** B2500  
**PRODUCT FORMULATION NAME:** Bis (trimethylsilyl) Acetamide  
**MOLECULAR FORMULA:** C<sub>8</sub>H<sub>21</sub>NoSi<sub>2</sub>

### 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

### HAZARD DESIGNATION

"C" - Corrosive  
Flammable Liquid

### POTENTIAL HEALTH EFFECTS

**EYES:** Causes chemical burns. Conjunctivitis, corneal damage.  
**SKIN:** \* Corrosive - causes tissue destruction  
**INGESTION:** Causes chemical burns. Harmful. Avoid contact  
**INHALATION:** \*Cause irritation or damage to lung. Harmful. Avoid contact

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS
Bis (trimethylsilyl) Acetamide	10416-59-8

## 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:** 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:** 11°C (STP in air)

**FLAME PROPAGATION OR BURNING RATE OF SOLIDS:** Carbon oxides (CO, CO<sub>2</sub>), Nitrogen oxides (NO, NO<sub>2</sub>) and some metallic oxides

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

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

## 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:** Absorb with inert material, and shovel spilled material in an appropriate waste disposal container. Do not get water inside container. Do not touch spoiled material. Use Water spray curtain to divert vapors drift.

**GENERAL PROCEDURES:** Absorb spilled material with suitable chemical binder. Shovel absorbent into suitable waste container. Do not contaminate soil, groundwater, or surface water.

## 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, acidic and oxidizing materials. DO not store in areas protected with water sprinklers. Provide adequate ventilation.

**STORAGE TEMPERATURE:** 8°C (46.4°F)

**Notes:** store above temperatures

## 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, Mechanical ventilation required

In case of exposure, use appropriate NOISH approved respiratory protection

**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 to light yellow.

**VAPOR PRESSURE:** 12 at 45°C

**VAPOR DENSITY:** > 1

**BOILING POINT:** 4.3°C /11mm

**MELTING POINT:** -24°C

**FLASH POINT AND METHOD:** 11°C (STP in air)

**THERMAL DECOMPOSITION:** < 80°C

**SOLUBILITY IN WATER:** Reacts

**SPECIFIC GRAVITY:** 0.832

**MOLECULAR WEIGHT:** 203.43

## 10. STABILITY AND REACTIVITY

**STABLE:** Yes

**HAZARDOUS POLYMERIZATION:** No

**STABILITY:** Material containing similar structural groups are normally stable

**POLYMERIZATION:** Hazardous polymerization will not occur

**CONDITIONS TO AVOID:** Contact with oxidizing agents, acid and alkali. Contact with Water or alcohols. Exposure to heat, sparks or other source of ignition.

**POSSIBILITY OF HAZARDOUS REACTIONS:** REACTS VIOLENTLY WITH WATER AND ACIDS.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hexamethyldisiloxane and acetonitrile.

**COMMENTS:** Upon exposure to water this product will hydrolyze to yield acetamide. Acetamide is subject to the reporting requirements of SARA Title III Section 313 and 40 CFR Part 372.

## 11. TOXICOLOGICAL INFORMATION

### ACUTE

**ORAL LD<sub>50</sub>:** orl-rate LD50 : 1580 mg/kg

**Notes:** Acetamide (Hydrolysis product):

Orl-rat LD50: 7000 mg/kg; orl-rat TDLo: 431 mg/kg/ 1Y-C; orl-rat TD: 546 mg/kg/52 W-C; orl- mus TDLo: 517 mg/kg/1Y-C

**SKIN EFFECTS:** Corrosive

ipr-musTDLo:500 mg/kg/I; ipr-mus LDLo: 750 mg/kg

### CARCINOGENICITY

**IARC:** yes -Acetamide is positive

**NTP:** No

**OSHA:** No

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** Not Available

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD:** Incinerate. Follow all federal, state, and local regulations

**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:** Flammable, liquid, corrosive, N.O.S.

**TECHNICAL NAME:** (Bis (trimethylsilyl) acetamide)

**PRIMARY HAZARD CLASS/DIVISION:** 3

**UN/NA NUMBER:** 2920

**PACKING GROUP:** II

NAERG: 132

## 15. REGULATORY INFORMATION

### UNITED STATES

#### DOT LABEL SYMBOL AND HAZARD CLASSIFICATION



Corrosive



Flammable Liquid

#### 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 considered Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

### CANADA

#### WHMIS HAZARD SYMBOL AND CLASSIFICATION



Flammable Liquid



Corrosive

**WHMIS CLASS:** Class B-2: Flammable liquid with flash point lower than 37.8 C (100 F).

Class E: Corrosive liquid

### EUROPEAN COMMUNITY

**EEC LABEL SYMBOL AND CLASSIFICATION**

"C" - Corrosive



Flammable Liquid

**R-Phrases:**

R10- Flammable

R14- Reacts violently with water

R22- Harmful if swallowed

R34- Causes burns

**S-Phrases:**

S7/8- Keep container tightly closed and dry

S26- In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

S30- Never add water to this product.

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

S43- in cases of fire use dry chemicals. Never use water

**INTERNATIONAL REGULATIONS:** This product is on the European Inventory of Existing Commercial Chemicals Substances.

**16. OTHER INFORMATION**

**APPROVED BY:** Office of Environmental Health Safety & Security

**TITLE:** Dir. of Env. Health Safety &

Security

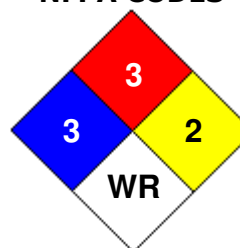
**PREPARED BY:** jnm

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

**REVISION SUMMARY:** New MSDS

**HMIS RATING**

<b>HEALTH:</b>	*	<b>3</b>
<b>FLAMMABILITY:</b>		<b>3</b>
<b>PHYSICAL HAZARD:</b>		<b>2</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.

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

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material designated herein.

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

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