1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE: PSX1050
PRODUCT FORMULATION NAME: Aldehyde Methoxysilane
CHEMICAL FAMILY: Aldehyde

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

2. HAZARDS IDENTIFICATION

HAZARD DESIGNATION
"O" - Oxidizing
"F" - Highly flammable
"Xi" - Irritant
"C" - Corrosive

EMERGENCY OVERVIEW
PHYSICAL APPEARANCE: Colorless liquid

POTENTIAL HEALTH EFFECTS
EYES: Causes eye irritation.
SKIN: Can cause skin irritation
INGESTION: No information available - Avoid contact
INHALATION: No information available. Avoid inhalation

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Wt.%</th>
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4. FIRST AID MEASURES

EYES: Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention if irritation develops or persists

SKIN: Immediately flush skin with plenty of water and wash skin with soap for at least 15 minutes. If irritation persists get immediate medical attention.
**5. FIRE FIGHTING MEASURES**

**GENERAL HAZARD:** Vapors can flow along surfaces to distant ignition source and flash back

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

**EXPLOSION HAZARDS:** Container explosion may occur under fire conditions

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

**6. ACCIDENTAL RELEASE MEASURES**

**SMALL SPILL:** Absorb the spill with inert material. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements.

**LARGE SPILL:** Evacuate area keep unnecessary and unprotected personnel from entering. Absorb spill with inert material (e.g., dry sand and earth), then place in the chemical waste container

**GENERAL PROCEDURES:** Absorb spilled material with suitable chemical binder. Shovel absorbent into suitable waste container

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

**7. HANDLING AND STORAGE**

**HANDLING:** Keep in a tightly closed container, store in a cool dry, ventilated area

**STORAGE:** Keep away from heat, sparks, and flames. Keep under a nitrogen blanket

**STORAGE TEMPERATURE:** 0°C (32°F) Minimum to 35°C (95°F) Maximum

**SHELF LIFE:** 3 months @ 0

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**ENGINEERING CONTROLS:** If user operations generate fumes or mist, use ventilation to keep exposure to airborne contaminants minimal

**PERSONAL PROTECTIVE EQUIPMENT**

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

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

**RESPIRATORY:** Use a NIOSH approved organic vapor respirator when exposed to vapors from heated material.

**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:** Characteristic

**COLOR:** Colorless

**PERCENT VOLATILE:** 100 at 25°C
SOLUBILITY IN WATER: Reacts
MOLECULAR WEIGHT: 192.29

10. STABILITY AND REACTIVITY

STABILITY: This compound is stable at ambient conditions under blanket of nitrogen
POLYMERIZATION: Hazardous polymerization will not occur
CONDITIONS TO AVOID: Acids, Water, Bases and Oxidizing Agents

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY
IARC: No
NTP: No
OSHA: No
COMMENTS: No toxicity information available

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: Butyraldehyde
TECHNICAL NAME: PSX1050
PRIMARY HAZARD CLASS/DIVISION: 3
UN/NA NUMBER: UN1129
PACKING GROUP: II
LABEL: Flammable liquid

15. REGULATORY INFORMATION

UNITED STATES
DOT LABEL SYMBOL AND HAZARD CLASSIFICATION

TSCA (TOXIC SUBSTANCE CONTROL ACT)
TSCA STATUS: This product is not listed on the TSCA Inventory.

CANADA
WHMIS HAZARD SYMBOL AND CLASSIFICATION

- Flammable Liquid
- Oxidizing
- Corrosive
- Dangerously reactive materials

Class B- Flammable and combustible material, Class C- Oxidizing material, Class E- Corrosive material, Class F- Dangerously reactive

EUROPEAN COMMUNITY

EEC LABEL SYMBOL AND CLASSIFICATION

- "O" - Oxidizing
- "F" - Highly flammable
- "Xi" - Irritant
- "C" - Corrosive

R-Phrases:
R11- Highly Flammable
R36/37/38- irritating to eyes, respiratory system and skin

S-Phrases:
S35- This material and its container must be disposed of in a safe way.

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: Revision #: 1. This MSDS replaces the October 19, 2010 MSDS.

HMIS RATING

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<td>PERSONAL PROTECTION</td>
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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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