GLASSCLAD 18

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: GLASSCLAD 18
PRODUCT CODE: PS200
PRODUCT FORMULATION NAME: GLASSCLAD 18
CHEMICAL FAMILY: Modified Organosilane

MANUFACTURER
UCT Specialties, Inc.
2731 Bartram Road
Bristol, PA 19007
Emergency Contact: Jon Telepchak
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Emergency Phone: 215-781-9255 x141
Alternate Emergency Phone: 800-385-3153

COMMENTS:
Modified Organosilane (NJTSR No. 56705700001-5567P)
T-Butanol [75-65-0] (40%)
Diacetone Alcohol [123-42-2] (40%)

2. HAZARDS IDENTIFICATION

HAZARD DESIGNATION
"F" - Highly flammable
"T" - Toxic

EMERGENCY OVERVIEW
PHYSICAL APPEARANCE: Light amber colored liquid.
IMMEDIATE CONCERNS: ORGANOSILANE SOLUTION. May cause irritation to skin, eyes, and respiratory tract.

POTENTIAL HEALTH EFFECTS
EYES: Contact may cause eye irritation.
SKIN: May cause skin irritation.
SKIN ABSORPTION: May be harmful if absorbed through skin.
INGESTION: May be harmful if ingested.
INHALATION: May be harmful if inhaled.
SIGNS AND SYMPTOMS OF OVEREXPOSURE

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

**SKIN:** Contact may cause skin irritation.

**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:** May cause respiratory tract irritation. Sign and symptoms of inhalation exposure may include sensory and ocular irritation, coughing and wheezing, burning sensation, and possibly ulceration or damage to corneal tissue.

Overexposure may lead to respiratory distress, behavioral changes, narcosis, headache, nausea and vomiting, CNS depression, coma and possibly death due to cardiovascular/respiratory arrest.

**ACUTE TOXICITY:** No data available. Contact Env. Dept.

**CHRONIC EFFECTS:** There is no known effect from chronic exposure to this product.

**CARCINOGENICITY:** This product or one of it's ingredients present at 0.1% or more concentration is not listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

**MUTAGENICITY:** None known.

**REPRODUCTIVE TOXICITY**

**REPRODUCTIVE EFFECTS:** None known.

**TERATOGENIC EFFECTS:** None known.

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

**TARGET ORGAN STATEMENT:** Eyes, Skin, Respiratory Tract and Nervous System.

**COMMENTS:** To the best of our knowledge the toxicological properties of this product have not been fully investigated.

It is recommended that exposure and contact be minimized as you would with any chemical.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS</th>
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<td>PS200</td>
<td>Blend</td>
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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 medical attention immediately.

**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:** If exposed to excessive levels of fumes, remove to fresh air. If not breathing, give artificial respiration (CPR). Contact a physician.

### 5. FIRE FIGHTING MEASURES

**FLASH POINT AND METHOD:** 10 C (50.0 F) Closed Cup

**FLAMMABLE LIMITS:** 1.0% to 7.0%

**AUTOIGNITION TEMPERATURE:** N/A

**FLAMMABLE CLASS:** Class III

**EXTINGUISHING MEDIA:** Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

**HAZARDOUS COMBUSTION PRODUCTS:** Carbon dioxide, carbon monoxide, fumes, unburned hydrocarbons,
aldehydes and other products of incomplete combustion.

**EXPLOSION HAZARDS:** Extremely flammable.

**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.

**SENSITIVE TO STATIC DISCHARGE:** Ground and bond containers when transferring material.

### 6. ACCIDENTAL RELEASE MEASURES

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

**LARGE SPILL:** Wear appropriate personal protective equipment as specified. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge (with dust filters) or canister (with dust filters) may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Non-venting chemical goggles are recommended to avoid contact with eyes. Wear impermeable gloves to minimize skin contamination. Prevent release to environment or waterways. Contain material with suitable chemical binder or absorbent. Send material out to a certified TSD for incineration. Ventilate the spill area.

**ENVIRONMENTAL PRECAUTIONS**

- **WATER SPILL:** Avoid runoff into storm sewers and ditches which lead to waterways.

**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.

### 7. HANDLING AND STORAGE

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

**HANDLING:** When pouring or transferring material, ground and bond both containers electrically to prevent a static spark. Handle material under fume hood with adequate ventilation. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Individuals handling this material must have respiratory protection and adequate eye protection.

**STORAGE:** Keep in a tightly closed container under a nitrogen blanket. Store in a cool, dry, ventilated area. Provide adequate ventilation. Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

**STORAGE TEMPERATURE:** 15°C (59.0°F) Minimum to 35°C (95.0°F) Maximum

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

**ELECTROSTATIC ACCUMULATION HAZARD:** When pouring or transferring material, ground and bond both containers electrically to prevent a static spark. Handle material under fume hood with adequate ventilation. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Individuals handling this material must have respiratory protection and adequate eye protection.

### 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. Ground and bond this material when in use.

**PERSONAL PROTECTIVE EQUIPMENT**

- **EYES AND FACE:** Use non-venting chemical goggles. Maintain eye wash fountain and quick drench facilities in work area.

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

- **RESPIRATORY:** 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. Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection.

**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:** Characteristic.

**COLOR:** Light amber.

**VAPOR PRESSURE:** 35 mm Hg @ 25 C

**VAPOR DENSITY:** > 1

**BOILING POINT:** 82 C @ 760 mm Hg

**FLASH POINT AND METHOD:** 10 C (50.0 F) Closed Cup

**SOLUBILITY IN WATER:** Reacts.

**SPECIFIC GRAVITY:** 0.9 (water =1)

## 10. STABILITY AND REACTIVITY

**HAZARDOUS POLYMERIZATION:** No

**STABILITY:** This compound is stable at ambient conditions.

**CONDITIONS TO AVOID:** Avoid contact with heat, sparks or open flame.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Formaldehyde, carbon monoxide, silicon dioxide, hydrochloric acid, and oxides of nitrogen.

**INCOMPATIBLE MATERIALS:** Water, acid, bases, oxidizing agents.

## 11. TOXICOLOGICAL INFORMATION

**ACUTE**

**ORAL LD_{50}:** May cause chemical burns. Effects undetermined. Treat as toxic.

**INHALATION LC_{50}:** Unknown.

**EYE EFFECTS:** Material hydrolyzes on contact with water or moisture. Organosilane hydrolysis product: Hydrolysis product exhibits moderately high acute intravenous toxicity.

Material may primarily effect the central nervous system and eyes by overexposure to vapors.

**SKIN EFFECTS:** Unknown, avoid contact.

**SUBCHRONIC:** To the best of our knowledge the subchronic properties of this product have not been fully investigated.

**REPRODUCTIVE EFFECTS:** To the best of our knowledge birth defects/reproductive properties of this product have not been fully investigated.

**COMMENTS:** To the best of our knowledge the toxicological properties of this product have not been thoroughly investigated.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL DATA:** None known.

## 13. DISPOSAL CONSIDERATIONS
DISPOSAL METHOD: Incineration is recommended. Treat or dispose of waste material in accordance with all local, state/provincial, and national requirements. It is recommended that waste generators determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult with their waste broker, state, and local hazardous waste regulations to insure complete and accurate classification.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

   PROPER SHIPPING NAME: Flammable Liquid, N.O.S.
   TECHNICAL NAME: Modified Organosilane, PS200
   PRIMARY HAZARD CLASS/DIVISION: 3
   UN/NA NUMBER: 1993
   PACKING GROUP: II

15. REGULATORY INFORMATION

UNITED STATES

   TSCA (TOXIC SUBSTANCE CONTROL ACT)

      TSCA STATUS: This product or all of its components are listed on the TSCA inventory.

EUROPEAN COMMUNITY
**EEC LABEL SYMBOL AND CLASSIFICATION**

- "F" - Highly flammable
  - Highly Flammable
- "T" - Toxic
  - Toxic

**R-Phases:**

R11 - Highly flammable.
R20/22 - Harmful by inhalation and if swallowed.
R48 - Danger of serious damage to health by prolonged exposure.

**S-Phases:**

S16.1 - Keep away from sources of ignition.
S23.1 - Do not breathe gas/fumes/vapors.
S24/25 - Avoid contact with skin and eyes.
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 - After contact with skin, wash immediately with plenty of soap and water.
S3/9 - Keep in a cool, well ventilated place.

**16. OTHER INFORMATION**

**REASON FOR ISSUE:** Revision

**APPROVED BY:** Jon Telepchak  
**TITLE:** Chief Operations Officer

**PREPARED BY:** lg

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

**REVISION SUMMARY:** This MSDS replaces the 06/26/2012 MSDS. Revised: Section 8: PERSONAL PROTECTIVE EQUIPMENT - SKIN. Section 9: ODOR.

**HMIS RATING**

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

**NFPA CODES**

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

**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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