MATERIAL SAFETY DATA SHEET

Date Issued: 04/23/2010
MSDS No: 2010-04
Date Revised: 07/22/2010
Revision No: 1

GLASSCLAD 18

1. PRODUCT AND COMPANY IDENTIFICATION

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

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

COMMENTS: COMPONENT:

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, caughing and wheezing, burning sensation, and possibly ulceration or damage to corneal tissue.

Over exposure 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

Chemical Name	CAS
PS200	Blend

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 and wash skin with soap for at least 15 minutes. 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: Fire fighters 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 (e g, dry sand or 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 absorbant. 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: Charatceristic

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 chemcial 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 centeral nervous system and eyes by overexposure to vapors.

SKIN EFFECTS: unknown, avoid contact

SUBCHRONIC: To the best of our knowledge the toxicological 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 toxicological properties 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.

Addtiionally, waste generators must consult with their waste broker, state, and local hazardous waste requlations to ensure 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 breath 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

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

PREPARED BY: JMT

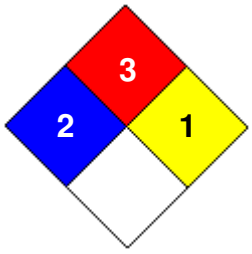
INFORMATION CONTACT: jtelepchak@unitedchem.com

REVISION SUMMARY: Revision #: 1. This MSDS replaces the July 22, 2010 MSDS., Any changes in information are as follows: In Section 1: CommentsIn Section 15: Comments

HMIS RATING

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

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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