MATERIAL SAFETY DATA SHEET

Date Issued: 10/01/2010
MSDS No: 2010.453

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT CODE: PS252
PRODUCT FORMULATION NAME: GlassClad® FF

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: For Research and Development Use Only

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Clear liquid

POTENTIAL HEALTH EFFECTS

EYES: Severely irritating. May cause severe chemical burns

SKIN: May cause chemical burns

SKIN ABSORPTION: Can be absorbed

INGESTION: Causes chemical burns. Nervous system toxin

INHALATION: Irritant. May be harmful. Avoid contact

SIGNS AND SYMPTOMS OF OVEREXPOSURE

ACUTE TOXICITY: Material contains 1,4-Dioxane and Tetrahydrofuran which may induce CNS depression on overexposure via skin contact, inhalation, or ingestion. Signs and symptoms of overexposure may include behavioral changes, dizziness, drowsiness, headache, nausea and vomiting, and possibly cramping if material was ingested. Overexposure may possibly lead to unconsciousness, convulsions, coma, and death due to cardiovascular/ respiratory arrest.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS
Polydimethylsiloxane, methyl diacetoxy terminated	55	
Dioxane	15	123-91-1
Tetrahydrofuran	30	109-99-9

4. FIRST AID MEASURES

EYES: Flush with clean water for at least 15 minutes and consult physician

!!!!!Get Medical Attention Immediately!!!!!!

***WARNING:** Contact lenses should not be worn while handling this material ***

SKIN: Scrub with soap and water. Remove contaminated clothing and shoes

INGESTION: Give one full cup of milk or water to dilute ingested material. 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

FLAMMABLE LIMITS: 2% to 22%

EXTINGUISHING MEDIA: Water, CO2, foam, dry chemical

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

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Absorb spilled material with suitable chemical binder. Shovel absorbent into suitable waste container. Do not wash into sewer or 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 acidic, alkaline, and oxidizing materials. Do not store in a glass container

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 and face shield.

SKIN: Use impervious gloves. Use impervious clothing as necessary to protect against skin contact.

RESPIRATORY: Local Exhaust required. Explosion- proof mechanical ventilation required. Administrative or mechanical means should be used in order to meet TLV requirements

If exposure exceeds TVL, use appropriate NIOSH approved respiratory

WORK HYGIENIC PRACTICES: General industrial hygiene practice.

COMMENTS: To identify addtional Personal Protective Equipment (PPE) requirements, it is recommened that a hazard assessment is 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: ether odor

APPEARANCE: low viscosity

COLOR: Clear

PERCENT VOLATILE: 45

VAPOR PRESSURE: 33 mm at 20°C

VAPOR DENSITY: 2.63

BOILING POINT: 66°C /760mm

SOLUBILITY IN WATER: Reacts

SPECIFIC GRAVITY: 1.000

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: Avoid contact with heat, sparks, or other source of ignition. Contact with air and light

INCOMPATIBLE MATERIALS: oxidizing agents, alkali and acid

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY

IARC: Yes

NTP: Yes

OSHA: No

COMMENTS: **Possible chronic health effects.

Material contains Tetrahydrofuran

Tetrahydrofuran: Toxicity Data: ihl-hmn TCLo: 25,000 ppm; ihl-rat LC50: 21,000ppm/ 3 Hours: orl-rat LD50: 2900 mg/kg

Tetrahydrofuran is the subject of a TSCA CHIP, is listed under RCRA (U213); is a CERCLA Hazardous Substance (RQ-1000lbs./454Kg) and is undergoing reproductive/ developmental, carcinogenicity, and subchronic toxicity testing under the National Toxicology program (NTP).

Material contains 1,4-Dioxane.

1,4-Dioxane: Toxicity Data: ihl-hmn TCLo: 470 ppm; ihl-hum TCLo: 5500ppm/ 1 minute; ihl-hmn LCLo 470 ppm/ 3 days; ihl-rat LC50: 46g/m3/ 2 hours: orl-rat LD50: 4200 mg/kg; orl-mus LD50: 5700 mg/kg; orl-rbt LD50: 2000 mg/kg; skn-rbt LD50: 7600 mg/kg. Irritation Data: eye-hmn: 300ppm/ 15 minutes; eye-rbt 21mg; skn-rbt 515 mg (open) MLD IRR; eye-gpg 21 ug MOD IRR.

Tumorigenic Data: ihl-rat TCLo: 111ppm/ 7 hours/ 2 years- Intermittent. orl-rat TDLo: 185 g/kg/ 2 years- continuous; orl-rat TDLO: 416 g/kg/2 years -continuousl; orl-rat TDLo: 528 g/kg/ 63 weeks- Intermittent; orl-musTD: 523 g/kg/ 90 weeks- Continuous; orl-mus TDLo: 239 g/kg/90 weeks- continuous; skn-mus TDLo: 14 g/kg/ 60 weeks- intermittent

Reproductive DataL orl-rat TDLo: 10 g/kg (6-15 days pregnant)

1,4-Dioane is the subject of TSCA CHIP, a NIOSH Criteria Document and a NIOSH Current Intelligence Bulletin, is listed under RDRA (U108) is a CERCLA Hazardous Substance (RQ=1lb./0.454 kg) is a SARA Title III Secrion 313 Toxic Chemical, is considered as a reasonable anticipated carcinogen by the NTP, is an IARC probable human carcinogen, is undergoing systemic/ organ toxicity testing under the NTP, and is being reviewed bythe EPA Carcinogen Assessment Group.

NOTE: Evidence for 1,4-Dioxane carcinogenicity has been determined by IARC to be inadequate in humans and is classified as a Class 2B Carcinogen since tests on rats and guinea pigs indicated an increase incidence of some forms of cancer after oral and intraperitoneal esposure. 1,4-Dioxane has also behaved as a tumor promoting agent in a two -step mouse skin painting assay. In light of this information, Huls America, Petrarch Systems, recommends avoiding all istances of exposure through adherence to the use of the prescribed protective clothing and equipment outlined in Section VIII of this Material Safety Data Sheet.

Although not directly indicated in the expressed hazard, person who may have been exposed to primary genotoxic/mutagenic agents prior to exposure to 1,4-Dioxane may be at a relatively greater risk then those not so exposed. Huls recommends that such persons should be identified and have their exposure to 1,4-Dioxane restricted.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: No information avaliable

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

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

TITLE III NOTES: This product is listed on SARA TIttle III list

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

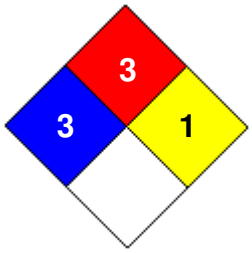
INFORMATION CONTACT: jtelepchak@unitedchem.com

REVISION SUMMARY: New MSDS

HMIS RATING

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

NFPA CODES



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