

MATERIAL SAFETY DATA SHEET

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2731 Bartram Road                 (CHEMTREC is for chemical emergencies)
Bristol, PA 19007                 Information Phone - (215)781-9255
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SECTION 1. NAME AND PRODUCT PS077

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NAME: PS077
SYNONYMS: (N-Triethoxysilylpropyl)O-Polyethylene oxide urethane
CAS REG.NO.: NA                    FORMULA: NA
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SECTION 2. HAZARDOUS INGREDIENTS PS077

| COMPONENT   | ACGIH TLV | OSHA PEL |
|---|-----------|----------|
| (N-Triethoxysilylpropyl)O-Polyethylene oxide urethane | NA        | NA       |

For Research and Development Use Only

LEGEND:

- (+) This chemical is subject to the reporting requirements of SARA Title III Section 313 and 40CFR Part 372, and is potentially at the maximum concentration listed.
- (++) SARA Title III Section 302 Extremely Hazardous Substance
- (+++) CERCLA Hazardous Substance
- [00000-00-0] Chemical Abstracts Services Registry Number.

If no marks appear with a listed ingredient, then the ingredient is not included in any of the regulatory categories appearing in the Legend of this Material Safety Data Sheet.

SECTION 3. PHYSICAL DATA PS077

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APPEARANCE: Pale yellow liquid.
B.PT.(deg.C/mm): >93/760          VAPOR PRESSURE(mm/deg.C): NA
M.PT.(deg.C): NA
VAPOR DENSITY(AIR=1): NA          % SOLUBLE IN WATER: Reacts
SPECIF.GRAVITY: 1.10              % VOLATILE BY VOLUME: NA
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SECTION 4. FIRE AND EXPLOSION HAZARD PS077

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FLASH POINT: 64 C (147 F) TAG
FLAMMABLE LIMITS (STP IN AIR)
  LOWER LIMITS: NA
  UPPER LIMITS: NA
FIRE EXTINGUISHING MEDIA: CO2, foam, dry chemical, water spray or fog
PERSONAL PROTECTION FOR FIGHTING FIRE: Fire fighters must wear positive
pressure, self-contained breathing apparatus and full protective clothing.
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SECTION 5. REACTIVITY DATA PS077  
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STABILITY (UNDER NORMAL CONDITIONS): Stable

CONDITIONS TO AVOID:

- Contact with oxidizing agents.
- Contact with alkali & acid.
- Exposure to heat, sparks, or other source of ignition
- Contact with water or moist air.

HAZARDOUS POLYMERIZATION: Will not occur.

HMIS RATINGS (Scale 0-4)

HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 1

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SECTION 6. SPILL OR LEAK PROCEDURES PS077  
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IN CASE OF SPILL:

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

DISPOSAL METHOD:

Follow all federal, state, and local regulations.

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SECTION 7. HEALTH HAZARD DATA PS077  
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TOXICITY:

Material generates Ethanol on contact with water or moisture.

Ethanol:

- Toxicity Data; orl-chd LDLo: 2000ppm; orl-man TDLo: 1.43ppm; ihl-rat LC50: 20,000ppm; skn-rbt LDLo: 20,000ppm.
- Irritation Data; eye-hmn 20ppm; skn-rbt 500mg/ 24 Hours SEV.

ROUTES AND EFFECTS OF EXPOSURE:

EYES: \*Irritant. Conjunctivitis, corneal damage.

SEE NOTE(S) BELOW.

SKIN: \*Can be absorbed Defatting, rashes, irritation.

SEE NOTE(S) BELOW.

INHALATION: \*Causes irritation or damage to lung. May be harmful. Avoid contact.

SEE NOTE(S) BELOW.

INGESTION: \*May be harmful. Avoid contact.

SEE NOTE(S) BELOW.

NOTE:

Material may form a siloxane polymer on the skin, eyes, or in the lungs. In the event of direct contact of the liquid with these tissues, seek medical attention.

\* The information provided here is based on published data for structurally analogous chemicals (not on bio-assay of this specific substance)

SECTION 7. HEALTH HAZARD DATA (CONT.)

PS077

FIRST AID PROCEDURES:

EYES: Flush with clean water for at least 15 minutes and consult physician  
!!!GET MEDICAL ATTENTION IMMEDIATELY!!!  
SKIN: Scrub with soap and water  
SKIN: Remove contaminated clothing and shoes  
INHALATION: Remove victim to fresh air  
INHALATION: Give CPR or oxygen if necessary  
INGESTION: Get medical attention

---If symptoms persist, get medical attention---

---Never give anything by mouth to an unconscious person---

CARCINOGEN STATUS: NTP?: No IARC MONOGRAPH?: No OSHA REGULATED?: No

SECTION 8. SPECIAL PROTECTION INFORMATION

PS077

VENTILATION:

Maintain adequate ventilation  
Mechanical ventilation recommended

RESPIRATORY PROTECTION:

In case of exposure, use appropriate NIOSH approved respiratory protection

PROTECTIVE CLOTHING:

Use impervious gloves  
Use impervious clothing as necessary to protect against skin contact

EYE PROTECTION:

Use chemical goggles  
Use chemical goggles and face shield

SECTION 9. PRECAUTIONS OR OTHER COMMENTS

PS077

HANDLING AND STORAGE:

Store in a cool and dry place  
Protect from moisture  
Protect from heat, direct sunlight, and source of ignition  
Containers require grounding during use  
Maintain tightly closed container  
Store away from alkaline, acidic, and oxidizing materials  
Provide adequate ventilation

PROPER SHIPPING NAME: Combustible liquids, n.o.s.

TECHNICAL NAME: ((N-Triethoxysilylpropyl)O-Polyethylene oxide urethane)

HAZARD CLASS: Flammable liquid, N.O.S. ID NO.: NA1993 PACKING GROUP: III

ERG: 27

HAZARD LABEL(S): Flammable liquid

Since empty containers retain product residue, follow hazard precautions even after container is emptied.

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Prepared by UCT Environmental, Health & Safety Department  
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