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DuPont
Material Safety Data Sheet

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"Zonyl" TM Fluoromonomer
5617APP Revised 10-DEC-2007

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"Zonyl" is a registered trademark of DuPont.

Corporate MSDS Number : DU008181

Company Identification

MANUFACTURER/DISTRIBUTOR

DuPont
1007 Market Street
Wilmington, DE 19898

PHONE NUMBERS

Product Information : 1-800-441-7515 (outside the U.S.
302-774-1000)
Transport Emergency : CHEMTREC 1-800-424-9300(outside U.S.
703-527-3887)
Medical Emergency : 1-800-441-3637 (outside the U.S.
302-774-1000)

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
Telomer B Methacrylate	65530-66-7	95-100
Poly(Difluoromethylene), Alpha-Fluoro-Omega-(2-Hydroxyethyl)	65530-60-1	1-5
Poly(Difluoromethylene), Alpha-Fluoro-Omega-(2-Iodoethyl)	71215-70-8	1-5

HAZARDS IDENTIFICATION

Potential Health Effects

Significant skin permeation, and systemic toxicity, after contact appears unlikely. There are no reports of human sensitization.

Inhalation effects may include irritation of the upper respiratory passages, with coughing and discomfort.

(HAZARDS IDENTIFICATION - Continued)

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

SKIN CONTACT

Flush skin with water after contact. Wash contaminated clothing before reuse.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

Notes to Physicians

Activated charcoal mixture may be administered. To prepare activated charcoal mixture, suspend 50 grams activated charcoal in 400 mL water and mix thoroughly. Administer 5 mL/kg, or 350 mL for an average adult.

FIRE FIGHTING MEASURES

Flammable Properties

Flash Point : >104 C (>219 F)
Method : PMCC

Hazardous decomposition products including carbon dioxide, carbon monoxide, hydrogen fluoride, toxic gases or particles may be formed during combustion. These products may cause severe eye, nose, throat, and lung irritation or toxic effects.

(FIRE FIGHTING MEASURES - Continued)

Extinguishing Media

Water Spray, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

Evacuate personnel to a safe area. Wear self-contained breathing apparatus.

Avoid breathing decomposition products.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up.

Accidental Release Measures

Flush spill area with water.

HANDLING AND STORAGE

Handling (Personnel)

Avoid breathing vapors or mist. Avoid breathing dust. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Do not store or consume food, drink, or tobacco in areas where they may become contaminated with this material. Avoid circumstances that produce respirable particles unless suitable ventilation and respirator are used.

Handling (Physical Aspects)

For safely thawing the product, place drums in thaw room or hot water bath, at temperature not above 75C. Contact DuPont for additional assistance as needed. Do not use a metal band heater on these drums, or use any other method that exposes the drum to extreme temperatures of metal-to-metal contact.

Storage

Keep container tightly closed.

(HANDLING AND STORAGE - Continued)

Freezing will affect physical condition but will not damage. Thaw and mix before using. Refrigerate for long-term storage. Keep away from open flames and heated surfaces above 200 degC (392 degF).

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Keep container tightly closed. Use only with adequate ventilation. Vent heated extruder or dryer fumes outside work area. Do not aerosolize. In spray applications, use airless type pressure spray equipment at less than 60 psi, and exhaust ducts, drip pans, or other design features to minimize worker exposure to mists and overspray.

Keep away from open flames and heated surfaces above 200 degC (392 degF).

Personal Protective Equipment

EYE/FACE PROTECTION

Wear safety glasses or coverall chemical splash goggles.

RESPIRATORS

Where there is potential for airborne exposures, wear NIOSH approved respiratory protection.

PROTECTIVE CLOTHING

Where there is potential for skin contact have available and wear as appropriate impervious gloves, apron, pants, and jacket.

Exposure Guidelines

Applicable Exposure Limits

Telomer B Methacrylate

PEL (OSHA)	: None Established
TLV (ACGIH)	: None Established
AEL * (DuPont)	: 2 mg/m3, 8 Hr. TWA

Poly(Difluoromethylene), Alpha-Fluoro-Omega-(2-Hydroxyethyl)

AEL * (DuPont)	: 1 mg/m3, 8 Hr. TWA
	0.5 mg/m3, 12 Hr. TWA

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

(Applicable Exposure Limits - Continued)

Exposure Guideline Comments

No AEL has been established for this product. Other products with fluorinated material components have an AEL of 0.1 mg/m³ to 1 mg/m³ (8 hour TWA) for respirable size aerosol particles.

Air monitoring studies conducted at customer sites indicates that the use of the recommended low pressure (less than 60 psi) airless type, garden type or deck specific hand pump sprayer with spray tip orifice minimum of 0.031 inches in diameter does not produce respirable size aerosol particle concentrations near the AEL.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Boiling Point	: 210-350 C (410-662 F)
Melting Point	: 50-60 C (122-140 F)
Solubility in Water	: 0 WT%
Odor	: Mild, Acrylic
Form	: Semi-solid
Color	: Colorless to Amber
Specific Gravity	: 1.6

STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions.

Incompatibility with Other Materials

Incompatible with peroxides, strong acids, strong bases.

Decomposition

Hazardous decomposition products including carbon dioxide, carbon monoxide, hydrogen fluoride, toxic gases or particles may be formed during combustion. These products may cause severe eye, nose, throat, and lung irritation or toxic effects.

Polymerization

Conditions leading to polymerization are heat and peroxides (or other free radical sources) with little hazard.

Polymerization may occur with peroxides or heat with little hazard. Polymer soluble in monomer and "Freon" 113. Contains inhibitor. Stable at 25 degC (77 degF) for several months.

TOXICOLOGICAL INFORMATION

Animal Data

Inhalation 4 hour LC50: 4.47 mg/l in rats
Oral LD50: >17,000 mg/kg in rats

The product is not a skin irritant, eye irritant or skin sensitizer in animals. Single inhalation exposures caused nonspecific effects such as weight loss and irritation. Repeated inhalation produced nonspecific effects such as weight loss and irritation, and minor changes in blood analysis. Repeated ingestion exposures caused reversible changes in the liver and spleen. There are no animal test data available to define the carcinogenic, mutagenic, developmental or reproductive hazards of the product.

DISPOSAL CONSIDERATIONS

Waste Disposal

Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

TRANSPORTATION INFORMATION

Shipping Information

DOT/IMO/IATA
Proper Shipping Name : Not Regulated

REGULATORY INFORMATION

U.S. Federal Regulations

TSCA Inventory Status : Reported/Included.

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes
Chronic : No
Fire : No
Reactivity : No
Pressure : No

OTHER INFORMATION

NFPA, NPCA-HMIS

NPCA-HMIS Rating
Health : 2
Flammability : 1
Reactivity : 1

Personal Protection rating to be supplied by user depending on use conditions.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS : MSDS Coordinator
Address : DuPont Chemical Solutions Enterprise
Wilmington, DE 19898
Telephone : 800-441-7515

Indicates updated section.

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS