

## M A T E R I A L   S A F E T Y   D A T A   S H E E T

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FOR EMERGENCY CALL:  
CHEMTREC 1-800-424-9300

Revision Date: 05/13/02  
Code #: D051302

PRODUCT NAME: ZONYL 7040

## ----- Section I-Product Information -----

Chemical Family: Polymer Dispersion  
Chemical Name: Mixture\*  
Formula: Mixture\*  
DOT Proper Shipping Name: Acetone Solution; Hazard Class, 3;  
ID Number, UN1090; Packing Group: PGII.

## -----Section II-Physical Data -----

Boiling Point: 56°C (133 °F) at 760mm Hg  
Specific Gravity (H2O=1): 1.05  
Vapor Pressure (mmHg): < 16 psia @ 38C  
Vapor Density (air=1): N/E  
Water Solubility: Miscible pH: 2 - 4.5  
Evaporation Rate (ether=1): N/E  
% Volatiles (by weight @ 110 deg C): 80 WT%  
Appearance and Odor: Semi-opaque liquid, offwhite, with a slight acetone odor.

## ----- Section III-Hazardous Ingredients -----

## COMPOSITION/INFORMATION ON INGREDIENTS:

CAS No.:	COMMON NAME:	ACGIH/PPM		OSHA/PPM	
		TWA:	STEL:	PEL:	% by WT.:
Confidential	Perfluoroalkyl acrylic copolymer	None	None	None	15 - 20
	Dermal: Not evaluated Inhalation: (rat) ALC = 21 mg/m <sup>3</sup> (4hr) Ingestion: (rat) LD50 > 11,000 mg/kg				
67-64-1	Acetone	500	750	1,000	7.5
	Dermal: (rabbit) Skin Absorption LD50 = 20,000 mg/kg Inhalation: (rat) LC50 = 31,983 ppm (4hr) Ingestion: (rat) LD50 = 9,750 mg/kg				
107-21-1	Ethylene glycol	None	None	None	4
	Dermal: (rabbit) LD50 = 9,530 mg/kg Inhalation: (rat) LC50 = 50 ppm Ingestion: (rat) LD50 = 4,700 mg/kg				
HMIS RATING:		H: 2	F: 3	R: 1	P: X

----- Section IV--Fire and Explosion Hazard Data -----

Flash Point: > 110 deg F (FMCC)  
Explosive Limits- No data Lower: Upper:

Extinguishing Media: Carbon dioxide, foam, dry chemical, water spray

Special Fire Fighting Procedures: Wear a SCBA to avoid breathing fumes.

Fire and Explosion Hazards: Decomposition and combustion products may be toxic.

----- Section V--Health Hazard Data -----

Does Product Contain >0.1% of an OSHA, NTP or IARC Carcinogen? No

FIRST AID-

Eyes: Flush eyes with water for at least 15 minutes. Get medical attention.

Skin: Wash with mild soap and water. If irritation occurs, get medical attention. If clothing is contaminated, remove and wash before reuse.

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

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

NATURE OF HAZARD (Physiological Effects)-

Route(s) of Entry: Dermal and inhalation

Potential Health Effects: Acute: Swallowing ethylene glycol can cause CNS depression, metabolic acidosis, kidney damage, and death. Breathing ethylene glycol vapors can cause irritation of nose and throat with possible headache and dizziness.

Chronic: Ethylene glycol has been shown to produce dose-related teratogenic effects in rats and/or mice when given by gavage, in drinking water or by inhalation. There is, however, no currently available information to suggest that ethylene glycol has caused birth defects in humans.

Prolonged or repeated exposure or breathing very high concentrations of acetone vapors may cause headache, nausea, vomiting, dizziness, other central nervous system effects, convulsions and in extreme cases, unconsciousness and death. Acetone vapors are irritating to the eyes. Acetone liquid is severely irritating to the eyes and may irritate the skin causing dermatitis. Ingestion of large amounts of acetone causes headaches, nausea, vomiting, and perhaps unconsciousness. Ingestion of acetone can also cause liver and kidney injury.

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----- Section VI-Reactivity Data -----

Stability: Stable  X  Unstable \_\_\_\_\_  
Conditions to Avoid: None known.

General Hazards: Flammable Liquid

Fire Fighting Equipment: Firefighters should be equipped with SCBA to protect against potentially toxic and irritating fumes.

Hazardous Combustion Products: 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. Use adequate ventilation.

----- Section VII-Spill or Leak Procedures -----

Accidental Release Measures: Absorb onto sand or other absorbent material. Shovel into closable container for disposal. Wear protective equipment specified, in this MSDS. Flush contaminated area with water.

----- Section VIII-Special Protection Information -----

Ventilation Required:

General Ventilation - OK  
Local Exhaust - OK

Respiratory Protection: Where there is potential for airborne exposures in excess of applicable limits, wear NIOSH/MSHA approved respiratory protection.

Eye Protection: Wear splash-proof chemical goggles.

Skin Protection: Wear impervious gloves as a standard handling procedure.

Personal Protective Equipment: Wear appropriate equipment to prevent probability of exposure and personal contact. Deluge safety shower and eye wash should be located near work area.

Engineering Controls: Vent dryer fumes outside work area. Do not aerosolize. In spray applications, use airless pressure spray equipment at less than 60 psi. Use exhaust ducts, drip pans and other design features to minimize worker exposure to mist and overspray.

Emergency Response Protection: Positive pressure SCBA and structural firefighters' protective clothing will provide limited protection.

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----- Section IX--Special Precautions -----

Precautions To Be Taken In Handling And Storage: **WARNING!**  
Flammable. Skin and eye irritant. Keep away from heat, sparks,  
and open flame. Avoid contact with skin, eyes, and clothing.  
Avoid breathing dust, vapor, mist or gas. Keep container closed.  
Use with adequate ventilation. For industrial use only.

----- Section X--Miscellaneous -----

ECOLOGICAL INFORMATION:

Ecotoxicity: Not evaluated.

Biological Oxygen Demand (BOD5): 72.7 mg/g

Chemical Oxygen Demand (COD): 411.0 mg/g

DISPOSAL CONSIDERATIONS:

Waste Disposal Method: Landfill in a site approved for the disposal  
of chemical and hazardous wastes. Do not incinerate. Follow all  
federal, provincial, and local regulations.

Container Disposal Information: Emptied container may contain  
product residue and should not be reused.

Clean Air Act - Hazardous Air Pollutants (HAP): Maximum Potential  
Volatile Organics: 4.00%

OSHA: This product is hazardous under the criteria of the Federal  
OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Section B(b): All components listed on inventory, or exempt.

SARA Title III: Section 302 - Extremely Hazardous Substances (EHS):  
This product does not contain any chemicals regulated under Section  
302 (40 CFR 355) as extremely hazardous substances.

SARA Title III: Section 304 - CERCLA: This product contains the  
following chemicals regulated under Section 304 (40 CFR 302) as  
hazardous substance(s) for emergency release notification ("CERCLA"  
List):

Chemical Name: 1,2 - Ethanedio1

Common Name: Ethylene glycol

CASRN: 107-21-1

Percent in Composition: 4% by wt

TSCA Section 12(b) - Export Notification: This product contains the  
following chemical(s) that are subject to a Section 12(b) export  
notification:

Chemical Name: 2-Propanone

Common Name: Acetone

CASRN: 67-64-1

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INTERNATIONAL REGULATIONS:

Canadian Inventory Status: This product contains only chemicals that are currently listed on the Canadian Domestic Substance List.

Canadian WHMIS: This product contains the following chemicals listed on the Canadian WHMIS Ingredient Disclosure List.

Chemical Name: 2-Propanone  
Common Name: Acetone  
CASRN: 67-64-1  
Percent in Composition: 7.5% by wt.

Chemical Name: 1,2-Ethanediol  
Common Name: Ethylene glycol  
CASRN: 107-21-1  
Percent in Composition: 4% by wt.

Chemical Name: Poly (oxy-1,2-ethanediyl), .alpha.-(1-oxooctadecyl)-  
.omega.-hydroxy--  
Common Name: Stearic Acid 9 Mole  
CASRN: 9004-99-3  
Percent in Composition: 1 - 2% by wt.

Controlled product, Class B2, D2A, D2B

HMIRC Registration Number: 5079

California Proposition 65: This product does not contain any chemicals currently on the California list of Known Carcinogens and Reproductive Toxins.

Massachusetts Right-to-Know: The following is required composition information:

Chemical Name: 2-Propanone  
Common Name: Acetone  
CASRN: 67-64-1  
Percent in Composition: 7.5% by wt.

Chemical Name: 1,2-Ethanediol  
Common Name: Ethylene glycol  
CASRN: 107-21-1  
Percent in Composition: 4% by wt.

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New Jersey Right-to-Know: The following is required composition information:

Chemical Name: 2-Propanone  
Common Name: Acetone  
CASRN: 67-64-1

Chemical Name: 1,2-Ethanediol  
Common Name: Ethylene glycol  
CASRN: 107-21-1

Chemical Name: Water  
Common Name: Water  
CASRN: 7732-18-5

Chemical Name: Perfluoroalkyl acrylic copolymer  
NJ Registry #: 00850201001-5496P

Pennsylvania Right-to-Know: The following is required composition information:

Chemical Name: Water  
Common Name: Water  
CASRN: 7732-18-5  
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: Perfluoroalkyl acrylic copolymer  
CASRN: Confidential  
Comment: Not on Pennsylvania Hazardous Substance List

Chemical Name: 2-Propanone  
Common Name: Acetone  
CASRN: 67-64-1  
Comment: Environmental Hazardous Substance

Chemical Name: 1,2-Ethanediol  
Common Name: Ethylene glycol  
CASRN: 107-21-1  
Comment: Environmental Hazardous Substance