



May 1, 1988

## MATERIAL SAFETY DATA SHEET

# CLEAR ENAMEL TOPCOATS

### Section I

#### Manufacturer

E. I. du Pont de Nemours & Co. (Inc.)  
Automotive Products Department  
Wilmington, Delaware 19898  
Telephone: Product information (800) 441-7515  
Medical emergency (800) 441-3637  
Transportation emergency (800) 424-9300  
(CHEMTREC)

Product: 500S, 580S, 780S  
D.O.T. Hazard Class: Flammable Liquid  
Paint UN 1263

Hazardous Materials Identification System:  
H = 2, F = 3, R = 0.

### Section II — Hazardous Ingredients (See Section X for ingredients by product code)

Ingredients	CAS No.	Vapor Pressure (20°C mm Hg.)	Exposure Limits*
1. Toluene	108-88-3	36.7	100ppm-A; 200ppm-O; 150ppm-A-(STEL); 300ppm-O-C 500ppm-O Max 10 Min 400ppm-A,O
2. Ethyl acetate	141-78-6	76	
3. Propylene glycol monomethyl ether acetate	108-65-6	3.8	Unknown
4. Xylene	1330-20-7	25	100ppm-A,O; 150ppm-A-(STEL)
5. Alkyd resin	67922-67-2	None	Unknown

\*A=ACGIH TLV, O=OSHA, D=Du Pont internal limit,  
S=Supplier Furnished Limit, STEL=Short Term Exposure Limit (15 Mins.), C=Ceiling

### Section III — Physical Data

Evaporation rate: Slower than ether  
Solubility in water: Miscible  
Vapor density: Heavier than air  
Boiling Range: 76°F-155°F

Gal. Wt. (#/gal): 8.16-8.29  
Volume % volatile: 72.8-76.7%  
Weight % volatile: 68.4-72.5%  
V.O.C. (#/gal): 5.7-5.9

### Section IV — Fire & Explosion Data

Flash point (Closed cup): 73-100°F  
Approx. flammable limits: 1.1-14%  
Extinguishing media: Water spray, foam, carbon dioxide, dry chemical  
Special fire fighting procedures: Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to cool closed containers to prevent pressure build up.  
Unusual fire & explosion hazards: When heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

### Section V — Health Hazard Data

#### General effects

Ingestion: Gastro-intestinal distress.  
In the unlikely event of ingestion, call a physician immediately and have names of ingredients available.

Inhalation: May cause nose and throat irritation. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are signs that solvent levels are too high. This product cannot be applied satisfactorily without the addition of an activator which contains an isocyanate. Exposure to the isocyanate may cause asthma-like reactions with shortness of breath, wheezing, cough or lung sensitization. This effect may be delayed for several hours after exposure. Individuals with lung or breathing problems or prior reaction to isocyanates must not be exposed to the vapors or spray mist.  
If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician.

Skin or eye contact: May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.  
In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician.  
In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.

#### Specific effects

**Toluene:** Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. **Ethyl Acetate:** Prolonged and repeated high exposures of laboratory animals resulted in secondary anemia with an increase in white blood cells; fatty degeneration, cloudy swelling and an excess of blood in various organs. **Propylene Glycol Monomethyl Ether Acetate:** May cause moderate eye burning. Recurrent overexposure may result in liver and kidney injury. **Xylene:** High concentrations have caused embryotoxic effects in laboratory animals. Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts.

### Section VI — Reactivity Data

#### Stability: stable

Incompatibility (materials to avoid): none reasonably foreseeable  
Hazardous decomposition products: CO, CO<sub>2</sub>, smoke  
Hazardous polymerization: will not occur

### Section VII — Spill or Leak Procedures

Steps to be taken in case material is released or spilled: Ventilate area. Remove sources of ignition. Prevent skin contact and breathing of vapor. Wear properly fitted vapor/particulate respirator (NIOSH/MSHA TC-23C). If the material has been activated with an isocyanate, wear a positive pressure supplied air respirator (NIOSH/MSHA TC-19C). Confine and remove with inert absorbant. Deactivate isocyanate containing spills with:

20% Surfactant (Tergitol TMN-10)  
80% Water

or

0-10% Ammonia  
2-5% Detergent  
Balance Water

Waste disposal method: Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state, and local requirements. Do not



**Section VII — Spill or Leak Procedures — Continued**

incinerate in closed containers.

**Section VIII — Special Protection Information**

**Respiratory:** Do not breathe vapors or mists.

Wear a positive pressure, supplied-air respirator (NIOSH/MSHA TC-19C) while mixing activator with enamel clear, during application and until all vapors and spray mist are exhausted. Individuals with a history of lung or breathing problems or prior reaction to isocyanate should not use or be exposed to this product when activated. Do not permit anyone without protection in the painting area. Follow the respirator manufacturer's directions for respirator use.

**Ventilation:** Provide sufficient ventilation in volume and pattern to keep contaminants below applicable OSHA requirements.

**Protective clothing:** Neoprene gloves and coveralls are recommended.

**Eye protection:** Desirable in all industrial situations. Include splash guards or side shields.

**Section IX — Special Precautions**

Precautions to be taken in handling and storing: Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120°F.

Other precautions: Do not sand, flame cut, braze or weld dry coating without a NIOSH/MSHA approved respirator or appropriate ventilation.

**Section X — Hazardous Ingredients by Product Code**

Product Code	Ingredients (See Section II)
500S, 580S, 780S	1, 2, 3, 4, 5

Notice: The data in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process.

"The following notice is required by California Proposition 65. 'Warning: This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.'"

Product Manager  
Refinish Sales