

**MATERIAL SAFETY  
DATA SHEET**

September 1, 1985

**CENTARI® ACRYLIC ENAMEL**
**Section I****Manufacturer**

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

Product: Centari Acrylic Enamel  
 D.O.T. Hazard Class: Flammable liquid  
 Paint UN 1263

**Section II — Hazardous Ingredients (See Section X for  
information on selected products which have additional  
ingredients)**

Primary Ingredients	CAS No.	Vapor Pressure (20°C mm Hg.)	Exposure Limits*
Toluene	108-88-3	29	100ppm-A, 200ppm-O
Xylene	1330-20-7	8	100ppm-A, 0
Methyl Ethyl Ketone	78-93-3	95	200ppm-A, 0
VM&P Naphtha	64742-89-8	~45	100ppm-A, 0
Mineral Spirits	64742-88-7	~5	100ppm-A, 0
Aromatic Hydrocarbons	64742-95-6	~5	50ppm-A, 0
Polyester Resin	None	None	None
Acrylic Resin	None	None	None

\*A = ACGIH TLV O = OSHA D = Du Pont internal limit

**Section III — Physical Data**

Evaporation rate: Slower than ether  
 Vapor density: Heavier than air  
 Solubility in water: Slight  
 Percent volatile by volume: 56.6-72.3%  
 Approximate boiling range: 172°F-426°F  
 Density: 7.69-9.55 #/gallon

**Section IV: Fire & Explosion Data**

Flash point (Method): 20-73F (Closed cup).  
 Approx. Flammable limits: 1.1-14%.  
 Extinguishing media: 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**

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. May cause  
 nervous system depression characterized by the following  
 progressive steps: Headache, dizziness, nausea, staggering  
 gait, confusion, unconsciousness. Laboratory studies with  
 rats have shown that petroleum distillates cause kidney  
 damage and kidney or liver tumors. These effects were not  
 seen in similar studies with guinea pigs, dogs, or monkeys.  
 Several studies evaluating petroleum workers have not  
 shown significant increases of kidney damage nor kidney or  
 liver tumors. Extremely high concentrations of butyl acetate  
 have caused blood changes and weakness in laboratory  
 animals. Very high concentrations of Methyl ethyl ketone  
 have caused embryotoxic effects in laboratory animals.  
 Reports have associated repeated and prolonged  
 overexposure to solvents with permanent brain and nervous  
 system damage.

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.

**Section VI — Reactivity Data**

Stability: Stable

Incompatibility (materials to avoid): None reasonably  
 foreseeable

Hazardous decomposition products: CO, CO<sub>2</sub>, smoke, oxides of  
 heavy metals reported in Section X

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 incinerate in closed containers.

## Section VIII — Special Protection Information

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

When this product is used with an isocyanate hardener, wear a positive pressure supplied air respirator (NIOSH/MSHA TC-19C approved) when mixing the isocyanate hardener with the paint, during application and until all vapor and spray mists are exhausted. Do not permit anyone without respiratory protection in the painting area. Refer to the isocyanate hardener label instructions and MSDS for further information. 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 — Notes

Product Code	Additional Ingredients	Vapor Pressure (20°C mm Hg.)	Exposure Limits*
700A, 701A	3, 7		
722A, 723A, 730A, 732A, 734A, 741A, 742A, 750A, 763A, 764A, 765A, 767A	3		
708A	7		
710A, 711A, 713A, 727A	5		
731A, 733A	6		
737A	1, 4, 7		
738A	1, 7		
761A	1, 2, 7		
762A	1, 7		
	2, 7		

  

Additional Ingredients	CAS No.	Vapor Pressure (20°C mm Hg.)	Exposure Limits*
(1) Lead Chromate	18454-12-1	None	50ug/m <sup>3</sup> -O as LEAD 150ug/m <sup>3</sup> -A as LEAD 0.05mg/m <sup>3</sup> -A as CR 0.1mg/m <sup>3</sup> -O as CR

Lead Chromate is an IARC/OSHA carcinogen. Over-exposure to lead may cause adverse effects to the blood forming, nervous, urinary, and reproductive systems including embryotoxic effects. Symptoms may include loss of appetite, anemia, disturbance of sleep and fatigue. (See OSHA Standard 29CFR1910.1025 for more information on lead)

(2) Antimony 7440-36-0 None 0.5mg/m<sup>3</sup>-A as Sb

Excessive exposures to antimony may produce gastrointestinal upset, nervous complaints, inflammation of the mucous membranes of the nose and throat, metallic taste and stomatitis. May cause skin irritation. Antimony is present in lead chromate. See lead chromate (1).

(3) Titanium Dioxide 13463-67-7 None 10mg/m<sup>3</sup>-A, 15mg/m<sup>3</sup>-O

In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m<sup>3</sup> respirable titanium dioxide dust. Analysis of the titanium dioxide concentrations in the rats' lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m<sup>3</sup> level are not relevant to the workplace.

(4) Lead Molybdate 7439-98-7 None 10mg/m<sup>3</sup>-A as MO  
(See also lead in ingredient (1))

(5) Carbon Black 1333-86-4 None 3.5mg/m<sup>3</sup>-A

(6) Aluminum 7429-90-5 None 10mg/m<sup>3</sup>-A

(7) Butyl Acetate 123-86-4 12 150ppm-A,O

Extremely high concentrations of butyl acetate have caused blood changes and weakness in laboratory animals.

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**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.

Product Manager  
Refinish Sales