

**DuPont Performance Coatings**  
**MATERIAL SAFETY DATA SHEET**  
**DuPont® 2311S™ Sanding Paste**

**SECTION 1 - Product and Company Identification**

Manufacturer: E.I. duPont de Nemours & Co.  
Dupont Performance Coatings  
Wilmington, DE, 19898

Telephone: Product Information: (800) 441-7515  
Medical Emergency: (800) 441-3637  
Transportation Emergency: (800) 424-9300  
(CHEMTREC)

Product: **DuPont® 2311S™ Sanding Paste**

DOT Shipping Name: See DOT addendum.

Hazardous Materials Information: See Section 10.

**SECTION 2 - Composition, Information on Ingredients**

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
ALCOHOL ETHOXYLATE	68131-39-5	0.1@100.0°F	A None O None
D-LIMONENE - TECHNICAL GRADE	5989-27-5	2.0	A None O None
GLYCERINE	56-81-5	1.0	A 10.0 mg/m3 O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust
POLYETHYLENE GLYCOL	25322-68-3	0.0	O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust A 3.0 mg/m3 Particulate Respirable Dust A 10.0 mg/m3 Particulate inhalable dust
QUARTZ-CRYSTALLINE SILICA	14808-60-7	None	O 0.1 mg/m3 Respirable Dust D 0.1 mg/m3 Respirable Dust A 50.0 ug/m3 Respirable Dust
SODIUM ALUMINUM SILICATE	68476-25-5	None	A None O None

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
TRIETHANOLAMINE	102-71-6	0.0	A None O None
WATER	7732-18-5	23.6	A None O None

\*A=ACGIH, O=OSHA, D=DuPont, S=Suppliers. Limits are 8 hour TWA unless otherwise specified. Vapor pressure @25°C unless otherwise noted.

**SECTION 3 - Hazards Information**

**Potential Health Effects:**

**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. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

**Ingestion:**

May result in gastrointestinal distress.

**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.

**Other Potential Health Effects in addition to those listed above:**

**ALCOHOL ETHOXYLATE**

Contact may cause skin irritation with discomfort or rash. Causes severe eye irritation. WARNING: This chemical is known to the State of California to cause cancer and birth defects or other reproductive harm.

**D-LIMONENE - TECHNICAL GRADE**

Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

**QUARTZ-CRYSTALLINE SILICA**

Is an IARC, NTP or OSHA carcinogen. Repeated overexposure to crystalline silica may lead to x-ray changes and chronic lung disease. Inhalation of high dust concentrations may cause: breathing difficulties, lung injury. WARNING: This chemical is known to the State of California to cause cancer.

**TRIETHANOLAMINE**

Can be absorbed through the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. Liquid splashes in the eye may result in chemical burns.

**SECTION 4 - First Aid Measures**

**First Aid Procedures:**

**Inhalation:**

If affected by inhalation of vapor or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

**Ingestion:**

In the unlikely event of ingestion, DO NOT INDUCE VOMITING. Call a physician immediately and have names of ingredients available.



# Product Launch MSDS

February 2005

## Skin or eye:

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 thoroughly with soap and water. If irritation occurs, contact a physician.

## SECTION 5 - Firefighting Measures

**Flash Point (Closed Cup)** See Section 11 for exact values.

**Flammable limits** No Information Available

### Extinguishing media:

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

### Fire fighting procedures:

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

### Fire & explosion hazards:

For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, 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 6 - Accidental Release Measures

### Steps to be taken in case material is released or spilled:

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly.

## SECTION 7 - Handling and Storage

### Precautions to be taken in handling and storing:

Observe label precautions. If combustible (flashpoint between 100 - 200 °F), keep away from heat, sparks and flame. If flammable (flashpoint less than 100 °F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than 20 °F) or flammable, VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120 °F. If product is waterbased, do not freeze.

### Other precautions:

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation, and gloves.

## SECTION 8 - Exposure Controls or Personal Protection

### Engineering controls and work practices:

#### Ventilation:

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

#### Respiratory:

Do not breathe vapors or mists. Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C) and particulate filter (NIOSH TC-84A) during application and until all vapors and spray mists are exhausted. In confined spaces, or in situations where continuous spray operations are typical, or if proper air-purifying respirator fit is not possible, wear a positive pressure, supplied-air respirator (NIOSH TC-19C). In all cases, follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area.

#### Protective clothing:

Neoprene gloves and coveralls are recommended.

## Eye protection:

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

## SECTION 9 - Physical and Chemical Properties

Evaporation Rate	Slower than Ether
Solubility in water	NIL
Vapor Density	Heavier than air
Approx. boiling range (°C)	100 - 100 °C
Approx. freezing range (°C)	No Data Available
Gallon weight (lbs/gal)	12.36
Specific gravity	1.48
Percent volatile by volume	60.32
Percent volatile by weight	40.28
Percent solids by volume	39.69
Percent solids by weight	59.72

## SECTION 10 - Stability and Reactivity

### Stability:

Stable

**Incompatibility (materials to avoid):** None reasonably foreseeable

### Hazardous decomposition products:

CO, CO<sub>2</sub>, smoke, and oxides of any heavy metals that are reported in "Composition, Information on Ingredients" section.

### Hazardous polymerization:

Will not occur.

### Sensitivity to static discharge:

For flammable materials (flashpoint less than 100°F) and combustibles (flashpoint between 100-200°F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

### Sensitivity to mechanical impact:

Not Applicable

## SECTION 11 - Additional Information

### PRODUCT CODE

### INGREDIENTS (Product Specific)

**2311S™** alcohol ethoxylate, d-limonene - technical grade, glycerine, polyethylene glycol, quartz-crystalline silica(6.8%), sodium aluminum silicate, triethanolamine, water

**GAL WT:12.36 WT PCT SOLIDS:59.72 VOL PCT SOLIDS:39.69**  
**SOLVENT DENSITY: 8.25 VOC LE: 1.1 VOC AP: 0.5**  
**FLASH POINT: Above 200°F H: 2 F: 1 R: 0 OSHA STORAGE: IIIB**  
**TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

### Footnotes:

**TSCA: in compliance** = In compliance with TSCA Inventory requirements for commercial purposes.

**ACGIH** = American Conference of Government Industrial Hygienists.

**IARC** = International agency for Research on Cancer.

**NTP** = National Toxicology Program.

**OSHA** = Occupational Safety and Health Administration.

**PNOR** = Particles Not Otherwise Regulated.

**PNOC** = Particles Not Otherwise Classified.

**STEL** = Short Term Exposure Limit.

**TWA** = Time Weighted Average.

**TM** = Is a Trademark of E.I. DuPont de Nemours & Co.

\* = Section 313 Supplier Notification: These chemicals are subject to the reporting requirements of Section 313 of the Emergency planning and Right-to-Know act of 1986 and of 40 CFR 372.

@ = Clean Air Act Hazardous Air Pollutant.

# = EPCRA Section 302 - Extremely Hazardous Substance.

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February 2005

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February 2005

**NOTICE:**

The information on 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.

**Product Manager - Refinish Sales**

**Prepared by: M. C. Gangi**

