

**1. Identification of the substance/mixture and of the company/undertaking**

Manufacturer: E. I. du Pont de Nemours and Company.  
 DuPont Performance Coatings  
 Wilmington, DE 19898

Telephone: Product information: (800) 441-7515  
 Medical emergency: (800) 441-3637  
 Transportation emergency: (800) 424-9300 (CHEMTREC)

Product: **Aviation Pre-Treatments, Primers, Surfacers and Related Products**

DOT Shipping Name: See DOT Addendum.

Hazardous Materials Information: See Section 10.

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**2. Composition/information on ingredients**

| INGREDIENTS                              | CAS #       | VAPOR PRESSURE | EXPOSURE LIMITS   |
|--|-------------|----------------|---|
| 1,2,4-trimethyl benzene                  | 95-63-6     | 7.0@44.4 °C    | A 25.0 ppm, O 25.0 ppm  |
| 1,6-hexamethylene diisocyanate           | 822-06-0    | 0.0@25.0 °C    | A 5.0 ppb, O None   |
| 2,4,6- tri((dimethylamino)methyl) phenol | 90-72-2     | 0.0@21.0 °C    | A None, O None  |
| 2-ethylhexyl acetate                     | 103-09-3    | 0.5            | A None, O None  |
| 4,6-dimethyl-2-heptanone                 | 19549-80-5  | None           | A None, O None  |
| 4-chlorobenzotrifluoride                 | 98-56-6     | 7.6@25.0 °C    | D 20.0 ppm 8 & 12 hour TWA, A None, O None  |
| Acetone                                  | 67-64-1     | 247.0@68.0 °F  | A 750.0 ppm 15 min STEL, A 500.0 ppm, O 1000.0 ppm, D 500.0 ppm 8 & 12 hour TWA   |
| Acrylic polymer-A                        | NotAvail    | None           | A None, O None  |
| Acrylic polymer-B                        | 70942-12-0  | None           | A None, O None  |
| Aliphatic polyisocyanate resin           | 28182-81-2  | None           | S 0.5 mg/m3, A None, O None   |
| Aluminum hydroxide                       | 21645-51-2  | None           | A 1.0 mg/m3, O None   |
| Aromatic hydrocarbon                     | 64742-95-6  | 10.0@25.0 °C   | D 50.0 ppm, A None, O None  |
| Barium sulfate                           | 7727-43-7   | None           | O 15.0 mg/m3 Total Dust, O 5.0 mg/m3 Respirable Dust, D 10.0 mg/m3 Total Dust, D 5.0 mg/m3 8 & 12 hour TWA Respirable Dust, A None                      |
| Benzyl alcohol                           | 100-51-6    | 0.1@30.0 °C    | A None, O None  |
| Bisphenol a/epichlorohydrin polymer      | 25036-25-3  | 4.3            | A 10.0 mg/m3 Total Dust, A 5.0 mg/m3 Respirable Dust, O 15.0 mg/m3 Total Dust, O 5.0 mg/m3 Respirable Dust  |
| Bisphenol-epichlorohydrin type polymer   | 25068-38-6  | 1.0@180.0 °C   | A None, O None  |
| Butyl acetate                            | 123-86-4    | 10.0           | A 200.0 ppm 15 min STEL, A 150.0 ppm, O 150.0 ppm   |
| Calcium metasilicate                     | 13983-17-0  | <0.0           | A 10.0 mg/m3 inhalable dust, O 15.0 mg/m3 Total Dust, O 5.0 mg/m3 Respirable Dust, D 2.0 Fibres/ml, D 5.0 mg/m3 8 & 12 hour TWA non fibrous particulate |
| Ceramic microspheres                     | 66402-68-4  | None           | A 10.0 mg/m3, O 15.0 mg/m3  |
| Cumene                                   | 98-82-8     | 3.7            | A 50.0 ppm, O 50.0 ppm Skin   |
| Diisobutyl ketone                        | 108-83-8    | 1.8            | A 25.0 ppm, O 50.0 ppm  |
| Epichlorohydrin-polyglycol               | 26142-30-3  | 1.4@80.0 °C    | A None, O None  |
| Epoxy hardener                           | NotAvail    | 5.2            | A None, O None  |
| Epoxy resin                              | NotAvail    | None           | A None, O None  |
| Epoxy urethane resin                     | NotAvail    | None           | A None, O None  |
| Ethanol, 2-(2-butoxyethoxy)-             | 112-34-5    | 0.0            | D 5.0 ppm, A None, O None   |
| Ethyl acetate                            | 141-78-6    | 93.2@25.0 °C   | A 400.0 ppm, O 400.0 ppm  |
| Ethylbenzene                             | 100-41-4    | 7.0            | A 125.0 ppm 15 min STEL, A 100.0 ppm, O 100.0 ppm, D 25.0 ppm 8 & 12 hour TWA   |
| Ethylene diamine                         | 107-15-3    | 68.6           | A 10.0 ppm Skin, O 10.0 ppm, D 1.0 ppm 8 & 12 hour TWA Skin, D 1.0 ppm 8 & 12 hour TWA  |
| Ethylene glycol monobutyl ether          | 111-76-2    | 0.6            | A 20.0 ppm, O 50.0 ppm Skin, D 20.0 ppm 8 & 12 hour TWA   |
| Formaldehyde polymer with benzamine      | 135108-88-2 | 0.6@21.0 °C    | A None, O None  |
| Hydrous magnesium silicate               | 14807-96-6  | None           | A 2.0 mg/m3 Respirable Dust, D 0.5 mg/m3 8 & 12 hour TWA Respirable Dust, D 0.1 mg/m3 8 & 12 hour TWA, O None   |
| Isobutyl alcohol                         | 78-83-1     | 9.7@22.0 °C    | A 50.0 ppm, O 100.0 ppm   |
| Kaolin                                   | 1332-58-7   | None           | A 2.0 mg/m3 Respirable Dust, O 15.0 mg/m3 TWA Total Dust, O 5.0 mg/m3 TWA Respirable Dust   |
| Limestone (calcium carbonate)            | 1317-65-3   | None           | A 10.0 mg/m3, O 15.0 mg/m3 Total Dust, O 5.0 mg/m3 Respirable Dust  |
| Methyl amyl ketone                       | 110-43-0    | 3.4            | A 50.0 ppm, O 100.0 ppm   |
| Methyl isoamyl ketone                    | 110-12-3    | 5.3            | A None, O None  |
| Methyl isobutyl ketone                   | 108-10-1    | 15.1           | A 75.0 ppm 15 min STEL Skin, A 50.0 ppm Skin, O 100.0 ppm Skin  |

| INGREDIENTS   | CAS #      | VAPOR PRESSURE | EXPOSURE LIMITS   |
|---|------------|----------------|---|
| N-beta-(aminoethyl)-gamma-aminopropyltrimethoxysilane | 1760-24-3  | <1.0           | A None, O None  |
| N-butyl alcohol                                       | 71-36-3    | 5.6@68.0 °F    | A 20.0 ppm, O 100.0 ppm, D 50.0 ppm 15 min STEL, D 25.0 ppm 8 & 12 hour TWA   |
| Octylphenoxypolyethoxy ethanol                        | 9036-19-5  | None           | A None, O None  |
| Para-nonylphenol                                      | 84852-15-3 | None           | A None, O None  |
| Phosphoric acid                                       | 7664-38-2  | 0.0            | A 3.0 mg/m3 15 min STEL, A 1.0 mg/m3, O 1.0 mg/m3, D 1.0 mg/m3 8 & 12 hour TWA  |
| Polyester polyol                                      | NotAvail   | None           | A None, O None  |
| Polyester resin                                       | 71010-58-7 | None           | A None, O None  |
| Polyol  | 68551-65-5 | 0.7@22.0 °C    | A None, O None  |
| Potassium fluoride                                    | 7789-23-3  | None           | A 2.5 mg/m3 as fluorine, O None   |
| Salicylic acid  | 69-72-7    | <0.0           | O 15.0 mg/m3 Total Dust, O 5.0 mg/m3 Respirable Dust, A None  |
| Strontium oxide                                       | 1314-11-0  | None           | A None, O None  |
| Titanium dioxide                                      | 13463-67-7 | None           | A 10.0 mg/m3, O 15.0 mg/m3 Total Dust, D 10.0 mg/m3 Total Dust, D 5.0 mg/m3 Respirable Dust                                 |
| Triphosphoric acid, aluminum salt (1:1)               | 13939-25-8 | None           | A 2.0 mg/m3 TWA Respirable Dust, O None   |
| Water   | 7732-18-5  | 23.6           | A None, O None  |
| Wollastonite  | 13983-17-0 | None           | D 2.0 Fibres/ml, A None, O None   |
| Xylene  | 1330-20-7  | 8.0@25.0 °C    | A 150.0 ppm 15 min STEL, A 100.0 ppm, O 100.0 ppm, D 150.0 ppm 15 min STEL, D 100.0 ppm 8 & 12 hour TWA                     |
| Zinc oxide  | 1314-13-2  | None           | A 10.0 mg/m3 15 min STEL Respirable Dust, A 2.0 mg/m3 Respirable Dust, O 15.0 mg/m3 Total Dust, O 5.0 mg/m3 Respirable Dust |
| Zinc phosphate  | 7779-90-0  | None           | O 5.0 mg/m3 Respirable Dust, A None   |

\*A=ACGIH, O=OSHA, D=DuPont, S=Suppliers. Limits are 8 hour TWA unless otherwise specified. Vapor pressure @ 20° C unless otherwise noted.

### 3. Hazards identification

#### 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. If this product contains or is mixed with an isocyanate activator/hardener, the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

##### 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:

##### 4-chlorobenzotrifluoride

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: skin. Prolonged or repeated exposure may cause damage to any of the following organs/systems: kidneys, liver, thyroid. Potential skin sensitizer that may cause allergic reactions and contact dermatitis resulting in severe irritation, dryness, and cracking of the skin. Ingestion may cause any of the following: gastrointestinal irritation. Eye contact may cause any of the following: permanent eye injury. Inhalation may cause any of the following: stupor (central nervous system depression), respiratory tract irritation.

##### Acetone

The following medical conditions may be aggravated by exposure: lung disease, eye disorders, skin disorders. Overexposure may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys, liver, respiratory system, skin.

##### Aliphatic polyisocyanate resin

Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. The following medical conditions may be aggravated by exposure: asthma, skin disorders, respiratory disorders. Potential skin sensitizer that may cause allergic reactions and contact dermatitis resulting in severe irritation, dryness, and cracking of the skin. Skin or eye contact may cause any of the following: irritation.

##### Aromatic hydrocarbon

The following medical conditions may be aggravated by exposure: skin disorders. Laboratory studies with rats have shown that petroleum distillates can 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 a significant increase of kidney damage or an increase in kidney or liver tumors.

##### Bisphenol a/epichlorohydrin polymer

Genetic damage in bacterial cell cultures, but not observed in animals.

##### Bisphenol-epichlorohydrin type polymer

The following medical conditions may be aggravated by exposure: skin disorders. Vapor may be irritating at elevated temperatures. Repeated or prolonged skin contact may cause any of the following: allergic contact dermatitis.

**Butyl acetate**

May cause abnormal liver function. The following medical conditions may be aggravated by exposure: respiratory system. Tests for embryotoxic activity in animals has been inconclusive. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

**Calcium metasilicate**

The following medical conditions may be aggravated by exposure: asthma, lung disease, respiratory disease.

**Cumene**

WARNING: This chemical is known to the State of California to cause cancer.

**Diisobutyl ketone**

The following medical conditions may be aggravated by exposure: asthma, blood, dermatitis. Contact may cause skin irritation with discomfort or rash. Repeated exposure may cause allergic skin rash, itching, swelling. This substance may cause damage to any of the following organs/systems: eyes, kidneys, liver. Extremely high oral and inhalation doses in laboratory animals have shown weight changes in various organs such as the liver, kidney, brain, heart and adrenal gland. In addition liver and kidney injury were observed at the extremely high inhalation level. In another inhalation study there was a slight depression in the white blood cell count. Liquid or vapor causes irritation, experienced as stinging, excess blinking and tear production, with excess redness and swelling of the conjunctiva.

**Epoxy hardener**

Skin contact may cause any of the following: skin sensitization, skin irritation.

**Epoxy urethane resin**

Eye contact may cause any of the following: irritation.

**Ethanol, 2-(2-butoxyethoxy)-**

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, eyes, kidneys, liver, skin. Tests in laboratory animals have shown effects on any of the following organs/systems: blood, kidneys, liver. Recurrent overexposure may result in liver and kidney injury. High doses in laboratory animals have shown non specific effects such as irritation, weight loss, moderate blood changes. Eye contact may cause any of the following: severe irritation, burns, corneal injury.

**Ethyl acetate**

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: eyes, respiratory system, skin. Tests in laboratory animals have shown effects on any of the following organs/systems: blood, kidneys, liver.

**Ethylbenzene**

Is an IARC, NTP or OSHA carcinogen. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects. WARNING: This chemical is known to the State of California to cause cancer.

**Ethylene diamine**

Ingestion may cause any of the following: burns to mouth and stomach, aspiration leading to lung damage.. Repeated or prolonged skin contact may cause any of the following: dermatitis, skin sensitization. Skin contact may cause any of the following: burns. Eye contact may cause any of the following: severe irritation, burns, corneal injury. Inhalation of high vapor concentrations may cause any of the following: lung injury. The following medical conditions may be aggravated by overexposure: asthma, dermatitis, pulmonary conditions. If absorbed through the skin, may be: harmful. Repeated or prolonged exposure may cause effects on any of the following organs/systems: kidneys, liver, respiratory system.

**Ethylene glycol monobutyl ether**

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, central nervous system, eyes, gastrointestinal system, kidneys, liver, respiratory system, skin. May cause injury to the kidneys, liver, blood and/or bone marrow. Repeated overexposure may result in damage to the blood. Eye contact may cause corneal injury. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. If absorbed through the skin, may be: harmful.

**Isobutyl alcohol**

Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. May cause irritation of the mucous membranes. May cause abnormal liver function. Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: eyes, respiratory system, skin. Tests in laboratory animals have shown effects on any of the following organs/systems: bone marrow, liver. Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns.

**Kaolin**

The following medical conditions may be aggravated by exposure: asthma, dermatitis. Repeated or prolonged inhalation may cause any of the following: lung injury.

**Methyl isoamyl ketone**

Extremely high oral doses in laboratory animals have shown weight changes in various organs such as the liver, kidney and adrenal gland. In addition liver injury was observed.

**N-beta-(aminoethyl)-gamma-aminopropyltrimethoxysilane**

May cause allergic skin reaction. Can produce skin sensitization in animals.

**N-butyl alcohol**

May cause abnormal blood forming function with anemia. Liquid splashes in the eye may result in chemical burns.

**Octylphenoxypolyethoxy ethanol**

Eye contact may cause any of the following: conjunctivitis, severe irritation, chemical burns.

**Phosphoric acid**

Ingestion may cause any of the following: burns to mouth and stomach. Inhalation of vapor may cause any of the following: burns to respiratory system. Skin or eye contact may cause any of the following: burns.

**Potassium fluoride**

Contact may cause skin burns.

**Salicylic acid**

Individuals with preexisting diseases of the liver or kidneys may have increased susceptibility to the toxicity of excessive exposures. Skin permeation can occur in amounts capable of producing the effects of systemic toxicity.

**Titanium dioxide**

Is an IARC, NTP or OSHA carcinogen. In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m3 respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m3 level are not relevant to the workplace. Results of a DuPont epidemiology study showed that employees who had been exposed to Titanium Dioxide were at no greater risk of developing lung cancer than were employees who had not been exposed to Titanium dioxide. No pulmonary fibrosis was found in any of the employees and no association was observed between Titanium dioxide exposure and chronic respiratory disease or x-ray abnormalities. Based on the results of this study DuPont concludes that titanium dioxide will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.'

**Wollastonite**

Long-term respiratory exposure exceeding TLV may damage the lungs, leading to bronchitis and impairment of lung capacity.

**Xylene**

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: bone marrow, cardiovascular system, central nervous system, kidneys, liver, lungs. Recurrent overexposure may result in liver and kidney injury. High exposures may produce irregular heart beats. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known. Repeated or prolonged skin contact may cause any of the following: irritation, dryness, cracking of the skin.

**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.

**Skin or eye contact:**

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.

**5. Fire-fighting measures**

**Flash Point (Closed Cup):**

See Section 11 for exact values.

**Flammable Limits:** LFL 0.8 % UFL 12.8 %

**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 and 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.

**6. Accidental release measures**

**Procedures for cleaning up spills or leaks:**

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. If material does not contain or is not mixed with an isocyanate activator/hardener: 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. If the material contains, or is mixed with an isocyanate activator/hardener: Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are: 20% Surfactant (Tergitol TMN 10) and 80% Water OR 0-10% Ammonia, 2-5% Detergent and Water (balance). Pressure can be generated. Do not seal waste containers for 48 hours to allow CO2 to vent. After 48 hours, material may be sealed and disposed of properly.

**Ecological information:**

There is no data available on the product. The product should not be allowed to enter drains, water courses or the soil.

**7. Handling and storage**

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

Observe label precautions. If combustible (flashpoint between 38-93 deg C or 100 - 200 deg F), keep away from heat, sparks and flame. If flammable (flashpoint less than 38 deg C or 100 deg F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than - 8 deg C or 20 deg 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 49 deg C or 120 deg 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 air purifying respirator with particulate filters or appropriate ventilation, and gloves. Combustible dust clouds may be created where operations produce fine material (dust). Avoid formation of significant deposits of material as they may become airborne and form combustible dust clouds. Handling and processing operations should be conducted in accordance with best practices (e.g.NFPA-654).

**8. Exposure controls/personal protection**

**Ventilation:**

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

**Respiratory protection:**

Do not breathe vapors or mists. If this product contains isocyanates or is used with an isocyanate activator/hardener, wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C) while mixing activator/hardener with paint, during application and until all vapors and spray mist are exhausted. If product does not contain or is not mixed with an isocyanate activator/hardener, a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH TC-23C) and particulate filter (NIOSH TC-84A) may be used. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed vapor or spray mist if product contains or is mixed with isocyanate activators/hardeners.

**Protective equipment:**

Personal protective equipment should be worn to prevent contact with eyes, skin or clothing.

**Skin and body protection:**

Neoprene gloves and coveralls are recommended.

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

**9. Physical and chemical properties**

|                              |                   |
|------------------------------|-------------------|
| Evaporation rate             | Slower than Ether |
| Water solubility             | NIL               |
| Vapour density               | Heavier than air  |
| Approx. Boiling Range ( °C)  | 56 – 163 °C       |
| Approx. Freezing Range ( °C) | -108 – 1350 °C    |
| Gallon Weight (lbs/gal)      | 6.86826 - 12.8436 |
| Specific Gravity             | 0.82 - 1.54       |
| Percent Volatile By Volume   | 30.22 - 100.00    |
| Percent Volatile By Weight   | 13.99 - 99.53     |
| Percent Solids By Volume     | 0.00 - 69.78      |
| Percent Solids By Weight     | 0.00 - 75.73      |

**10. Stability and reactivity**

**Stability:**

Stable

**Incompatibility (materials to avoid):**

None reasonably foreseeable

**Hazardous decomposition products:**

CO, CO2, 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 38 deg C or 100 deg F) and combustibles (flashpoint between 38- 93 deg C or 100-200 deg 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:**

None known.

**11. Additional Information**

**13100S™** 1,6-hexamethylene diisocyanate(0.1%\*@), 2-ethylhexyl acetate, Aliphatic polyisocyanate resin, Butyl acetate, Ethyl acetate **GAL WT: 8.98 WT PCT SOLIDS: 75.00 VOL PCT SOLIDS: 69.78 SOLVENT DENSITY: 7.43 VOC LE: 2.2 VOC AP: 2.2 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

**13138S™** 2,4,6- tri((dimethylamino)methyl) phenol, Isobutyl alcohol, Methyl isobutyl ketone(27%\*@), N-beta-(aminoethyl)-gamma-aminopropyltrimethoxysilane, Salicylic acid **GAL WT: 6.87 WT PCT SOLIDS: 11.14 VOL PCT SOLIDS: 8.70 SOLVENT DENSITY: 6.70 VOC LE: 6.1 VOC AP: 6.1 FLASH POINT: 20 °F to below 73 °F H: 3 F: 3 R: 2 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

**13150S™** 1,2,4-trimethyl benzene(2%\*), 4-chlorobenzotrifluoride, Acetone, Aromatic hydrocarbon, Benzyl alcohol, Cumene(0.1%\*@), Epoxy resin, Formaldehyde polymer with benzenamine, Methyl isoamyl ketone, Para-nonylphenol **GAL WT: 8.67 WT PCT SOLIDS: 35.06 VOL PCT SOLIDS: 36.09 SOLVENT DENSITY: 8.82 VOC LE: 2.4 VOC AP: 1.3 FLASH POINT: Below 20 °F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

**13160S™** 4-chlorobenzotrifluoride, Epoxy hardener, Epoxy resin, Ethylbenzene(1.5%\*@), Ethylene diamine(1.8% #), Methyl isoamyl ketone, N-butyl alcohol(14%\*), Para-nonylphenol, Xylene(6%\*@) **GAL WT: 8.46 WT PCT SOLIDS: 51.09 VOL PCT SOLIDS: 51.34 SOLVENT DENSITY: 8.42 VOC LE: 2.6 VOC AP: 2.1 FLASH POINT: 73 °F to below 100 °F H: 3 F: 3 R: 1 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

**13180S™** 2,4,6- tri((dimethylamino)methyl) phenol, 4-chlorobenzotrifluoride, Epoxy hardener, Epoxy resin, Ethylbenzene(1.3%\*@), Ethylene diamine(1.6% #), Methyl isoamyl ketone, N-butyl alcohol(16%\*), Xylene(5%\*@) **GAL WT: 8.55 WT PCT SOLIDS: 44.72 VOL PCT SOLIDS: 45.28 SOLVENT DENSITY: 8.77 VOC LE: 2.9 VOC**

**AP: 2.3 FLASH POINT: 73 °F to below 100 °F H: 3 F: 3 R: 1 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

**13204S™ Ethanol, 2-(2-butoxyethoxy)-(5%\*®), Ethylene glycol monobutyl ether(14%\*), Phosphoric acid, Water GAL WT: 9.50 WT PCT SOLIDS: 29.50 VOL PCT SOLIDS: 17.57 SOLVENT DENSITY: 8.13 VOC LE: 4.4 VOC AP: 1.8 FLASH POINT: 141 °F - 200 °F H: 3 F: 2 R: 1 OSHA STORAGE: IIIA TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

**13205S™ Ethylene glycol monobutyl ether(14%\*), Octylphenoxypolyethoxy ethanol, Phosphoric acid, Potassium fluoride, Water GAL WT: 9.33 WT PCT SOLIDS: 26.34 VOL PCT SOLIDS: 15.75 SOLVENT DENSITY: 8.16 VOC LE: 3.9 VOC AP: 1.3 FLASH POINT: Above 200 °F H: 3 F: 1 R: 1 OSHA STORAGE: IIIB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

**13520S™ 2-ethylhexyl acetate, Acetone, Acrylic polymer-B, Aluminum hydroxide, Ethyl acetate, Hydrous magnesium silicate, Kaolin, Limestone (calcium carbonate), Methyl amyl ketone, Polyester resin, Polyol, Titanium dioxide(28.5%), Zinc oxide(1%\*) GAL WT: 12.78 WT PCT SOLIDS: 75.73 VOL PCT SOLIDS: 54.62 SOLVENT DENSITY: 6.84 VOC LE: 2.4 VOC AP: 2.0 FLASH POINT: Below 20 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

**13560S™ 4,6-dimethyl-2-heptanone, 4-chlorobenzotrifluoride, Acetone, Acrylic polymer-A, Aromatic hydrocarbon, Barium sulfate, Bisphenol a/epichlorohydrin polymer, Ceramic microspheres, Diisobutyl ketone, Epichlorohydrin-polyglycol, Ethylbenzene(0.7%\*®), Hydrous magnesium silicate, Limestone (calcium carbonate), Methyl amyl ketone, N-butyl alcohol(4%\*), Polyester polyol, Titanium dioxide(18.7%), Wollastonite, Xylene(3%\*®), Zinc phosphate(3%\*) GAL WT: 12.84 WT PCT SOLIDS: 75.44 VOL PCT SOLIDS: 55.57 SOLVENT DENSITY: 7.07 VOC LE: 2.6 VOC AP: 2.4 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

**13570S™ 1,2,4-trimethyl benzene(1%\*), 4,6-dimethyl-2-heptanone, 4-chlorobenzotrifluoride, Acetone, Aromatic hydrocarbon, Barium sulfate, Bisphenol a/epichlorohydrin polymer, Calcium metasilicate, Diisobutyl ketone, Epichlorohydrin-polyglycol, Epoxy urethane resin, Ethylbenzene(0.2%\*®), Hydrous magnesium silicate, Kaolin, Methyl amyl ketone, N-butyl alcohol(4%\*), Polyester polyol, Strontium oxide, Titanium dioxide(11.9%), Triphosphoric acid, aluminum salt (1:1) GAL WT: 12.55 WT PCT SOLIDS: 74.24 VOL PCT SOLIDS: 54.98 SOLVENT DENSITY: 7.16 VOC LE: 2.6 VOC AP: 2.3 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

**13580S™ 1,2,4-trimethyl benzene(1%\*), 4,6-dimethyl-2-heptanone, 4-chlorobenzotrifluoride, Acetone, Aromatic hydrocarbon, Barium sulfate, Bisphenol a/epichlorohydrin polymer, Bisphenol-epichlorohydrin type polymer, Calcium metasilicate, Diisobutyl ketone, Epichlorohydrin-polyglycol, Epoxy urethane resin, Ethylbenzene(0.2%\*®), Hydrous magnesium silicate, Kaolin, N-butyl alcohol(4%\*), Strontium oxide, Titanium dioxide(10.8%), Triphosphoric acid, aluminum salt (1:1) GAL WT: 11.85 WT PCT SOLIDS: 71.05 VOL PCT SOLIDS: 51.64 SOLVENT DENSITY: 7.07 VOC LE: 2.7 VOC AP: 2.3 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

**13756S™ 4-chlorobenzotrifluoride, Acetone GAL WT: 10.11 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00 SOLVENT DENSITY: 10.11 VOC LE: 0.0 VOC AP: 0.0 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

**Footnotes:**

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

**ACGIH** American Conference of Governmental 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.

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\* = 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.

@ = Listed as a Clean Air Act Hazardous Air Pollutant.

# = EPCRA Section 302 - Extremely hazardous substances.

**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: Y. B. Yarbrough