

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

Manufacturer: DuPont Performance Coatings LLC
1007 Market Street, D-13111
Wilmington, DE 19898

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

Product: **Nason® Primers, Sealers and Fillers**

DOT Shipping Name: See DOT Addendum.

Hazardous Materials Information: See Section 10.

Copyright 2011 E. I. du Pont de Nemours and Company. All rights reserved. Copies may be made only for those using DuPont products.

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
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	25133-97-5	None	A None, O None
Acrylic polymer-C	28262-63-7	None	A None, O None
Acrylic polymer-D	69777-18-0	None	A None, O None
Acrylic resin	29354-75-4	None	A None, O None
Alkyd resin	68071-84-1	None	A None, O None
Aluminium and phosphor mixture	13939-25-8	None	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	<0.0	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
Bisphenol a/epichlorohydrin polymer	25036-25-3	None	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
Butylated phenol-formaldehyde resin	96446-41-2	None	A None, O None
Carbon black	1333-86-4	None	A 3.0 mg/m3, O 3.5 mg/m3, D 0.5 mg/m3 8 & 12 hour TWA
Cobalt neodecanoate	27253-31-2	2.0@68.0 °F	A None, O None
Cobalt octoate	136-52-7	2.0@68.0 °F	O 100.0 ug/m3 Co, D 20.0 ug/m3 8 & 12 hour TWA Co, A None
Cristobalite siO2	14464-46-1	None	A 25.0 ug/m3 Respirable Dust, D 0.0 mg/m3 Respirable Dust, D 0.0 mg/m3 12 hr TWA Respirable Dust, O None
Cumene	98-82-8	3.7	A 50.0 ppm, O 50.0 ppm Skin
Diacetone alcohol	123-42-2	1.1	A 50.0 ppm TLV, O 50.0 ppm TWA
Epoxy resin	25068-38-6	247.9@60.0 °F	A None, O None
Ester gum	68038-41-5	<0.0	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
Ethyl 3-ethoxy propionate	763-69-9	2.3	A None, O None
Ethyl acetate	141-78-6	100.0	A 400.0 ppm, O 400.0 ppm
Ethylbenzene	100-41-4	7.0	A 20.0 ppm, O 100.0 ppm, D 25.0 ppm 8 & 12 hour TWA
Ethylene glycol monobutyl ether acetate	112-07-2	0.3	A 20.0 ppm, D 20.0 ppm 8 & 12 hour TWA, O None
Glycol dibenzoate ester	27138-31-4	None	A None, O None
Hydrotreated heavy naphtha (petroleum)	64742-48-9	0.3@68.0 °F	A 100.0 ppm, O 500.0 ppm, D 100.0 ppm
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
Isopropyl alcohol	67-63-0	48.0	A None, O None
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
Magnesite	546-93-0	None	A None, O None

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
Methyl amyl ketone	110-43-0	3.4	A 50.0 ppm, O 100.0 ppm
Methyl ethyl ketone	78-93-3	71.2	A 300.0 ppm 15 min STEL, A 200.0 ppm, O 200.0 ppm, D 300.0 ppm 15 min TWA, D 200.0 ppm 8 & 12 hour TWA
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 20.0 ppm, O 100.0 ppm Skin
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
Nitrocellulose	9004-70-0	None	A None, O None
Polyester resin-A	Not Avail	None	A None, O None
Polyester resin-B	129922-22-1	None	A None, O None
Polyvinyl butyral resin	27360-07-2	None	A 10.0 mg/m3 Total Dust, A 3.0 mg/m3 Respirable Dust, O 15.0 mg/m3 Total Dust, O 5.0 mg/m3 Respirable Dust
Propylene glycol monomethyl ether acetate	108-65-6	3.8	D 30.0 ppm 15 min TWA, A None, O None
Quartz-crystalline silica	14808-60-7	None	A 25.0 ug/m3 Respirable Dust, O 0.3 mg/m3 Total Dust, O 0.1 mg/m3 Respirable Dust, D 20.0 ug/m3 Respirable Dust, D 10.0 ug/m3 12 hr TWA Respirable Dust
Red iron oxide light	1332-37-2	None	A 10.0 mg/m3 PNOR, A 3.0 mg/m3 Respirable Dust, A 5.0 mg/m3 Fe, O 15.0 mg/m3 Total Dust, O 5.0 mg/m3 Respirable Dust
Strontium phosphate	13450-99-2	None	A None, O None
Styrene	100-42-5	6.0	A 40.0 ppm 15 min STEL, A 20.0 ppm, O 200.0 ppm CEIL, O 600.0 ppm 5 min STEL maximum, O 100.0 ppm, D 40.0 ppm 15 min TWA, D 20.0 ppm 8 & 12 hour TWA
Titanium dioxide	13463-67-7	None	O 15.0 mg/m3 Total Dust, D 10.0 mg/m3 8 & 12 hour TWA Total Dust, D 5.0 mg/m3 8 & 12 hour TWA Respirable Dust, A None
Toluene	108-88-3	22.0	A 20.0 ppm, O 300.0 ppm CEIL, O 500.0 ppm 10 min TWA, O 200.0 ppm, D 50.0 ppm 8 & 12 hour TWA Skin
Vm&p naphtha-A	64742-89-8	50.0@25.0 °C	A 300.0 ppm, O 400.0 ppm 15 min STEL, O 300.0 ppm, D 100.0 ppm
Vm&p naphtha-B	8032-32-4	17.9@68.0 °F	A 300.0 ppm, D 100.0 ppm, O None
Wollastonite	13983-17-0	<0.0	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
Yellow iron oxide	51274-00-1	None	A 10.0 mg/m3, O 15.0 mg/m3
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
Zirconium oxide	1314-23-4	None	A 10.0 mg/m3 15 min STEL, A 5.0 mg/m3, O 5.0 mg/m3 Zr

*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.

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.

Butylated phenol-formaldehyde resin

May cause eye irritation with discomfort, tearing, or blurred vision. May cause irritation of the respiratory tract, experienced as nasal discomfort and discharge, coughing and possibly accompanied by chest pain.

Carbon black

Is an IARC, NTP or OSHA carcinogen. Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. The following medical conditions may be aggravated by exposure: asthma, respiratory disease. WARNING: This chemical is known to the State of California to cause cancer.

Cobalt neodecanoate

Some cobalt compounds may be possible human carcinogens.

Cobalt octoate

Skin contact may cause any of the following: dermatitis, irritation, skin sensitization. Some cobalt compounds may be possible human carcinogens.

Cristobalite siO2

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

Cumene

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

Diacetone alcohol

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: cardiovascular system, central nervous system, eyes, respiratory system, skin, red blood cells. Overexposure may cause damage to any of the following organs/systems: kidneys, liver, red blood cells. Tests for mutagenic activity in bacterial or mammalian cell cultures have been inconclusive.

Epoxy resin

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.

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 glycol monobutyl ether acetate

May destroy red blood cells. May cause abnormal kidney function. May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. The following medical conditions may be aggravated by exposure: central nervous system, gastrointestinal system, kidneys, liver, dermatitis. Can be absorbed through the skin in harmful amounts. Overexposure may cause damage to any of the following organs/systems: blood, kidneys, liver. Ingestion may cause headache, nausea, vomiting, dizziness, and drowsiness.

Hydrotreated heavy naphtha (petroleum)

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.

Isopropyl alcohol

The following medical conditions may be aggravated by exposure: dermatitis, respiratory disease. Developmental toxicity was seen in rat's offspring at doses that were maternally toxic. Contact may cause skin irritation with discomfort or rash. Can be absorbed through the skin in harmful amounts. Contact will cause moderate to severe redness and swelling, itching, tingling sensation, painful burning. May cause injury to the cornea of the eyes. Prolonged or repeated exposure may cause damage to any of the following organs/systems: liver. Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights. Aspiration may occur during swallowing or vomiting, resulting in lung damage. May cause central nervous system depression with headache, stupor, uncoordinated or strange behavior, or unconsciousness. Irritating to the mouth, throat and stomach. May cause irritation of the respiratory tract, experienced as nasal discomfort and discharge, coughing and possibly accompanied by chest pain. Prolonged or repeated skin contact may cause drying, cracking, or irritation. Ingestion may cause headache, nausea, vomiting, dizziness, and drowsiness. Swallowing significant amounts of substance could cause serious injury, even death.

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 ethyl ketone

Material is irritating to mucous membranes and upper respiratory tract. 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, respiratory system, skin. Prolonged or repeated overexposure may cause any of the following: conjunctivitis, dermatitis. High concentrations have caused embryotoxic effects in laboratory animals. Aspiration may occur during swallowing or vomiting, resulting in lung damage. Ingestion may cause headache, nausea, vomiting, dizziness, and drowsiness.

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.

Methyl isobutyl ketone

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

N-butyl alcohol

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

Nitrocellulose

The following medical conditions may be aggravated by overexposure: liver disease, kidney disorders.

Propylene glycol monomethyl ether acetate

Recurrent overexposure may result in liver and kidney injury.

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.

Red iron oxide light

Long-term respiratory exposure of iron oxide may result in deposition of particles in the lung (benign siderosis).

Styrene

Is an IARC, NTP or OSHA carcinogen. Prolonged or repeated exposure may cause any of the following: . Tests in laboratory animals have shown effects on any of the following organs/systems: lungs. Ingestion may cause any of the following: nausea, stupor (central nervous system depression), gastrointestinal irritation, aspiration leading to lung damage.. If ingested, may be: harmful or fatal. Repeated or prolonged eye contact may cause any of the following: conjunctivitis, burns.

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.'

Toluene

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, respiratory system, skin. Can be absorbed through the skin in harmful amounts. 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. WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm.

Vm&p naphtha-A

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.

Vm&p naphtha-B

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, respiratory system, skin. This substance may cause damage to any of the following organs/systems: central nervous system, kidneys, liver, lungs, skin and eyes. Material may be harmful or fatal if swallowed.

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. Firefighting measures

Flash Point (Closed Cup):

See Section 11 for exact values.

Flammable Limits: LFL 0.5 % 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 – 139 °C
Approx. Freezing Range (°C)	-95 – 140 °C
Gallon Weight (lbs/gal)	7.93648 - 13.3777
Specific Gravity	0.95 - 1.60
Percent Volatile By Volume	46.35 - 88.02
Percent Volatile By Weight	27.08 - 79.32
Percent Solids By Volume	11.98 - 53.65
Percent Solids By Weight	19.88 - 72.62

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

419-18™ Acetone, Barium sulfate, Bisphenol a/epichlorohydrin polymer, Butyl acetate, Carbon black(0.2%), Diacetone alcohol, Ethylbenzene(2.6%*@), Limestone (calcium carbonate), Methyl amyl ketone, Methyl isobutyl ketone(1.2%*@), N-butyl alcohol(3%*), Propylene glycol monomethyl ether acetate, Titanium dioxide(7.2%), Toluene(1%*@), Wollastonite, Wollastonite, Xylene(10%*@), Zinc oxide(1%*), Zinc phosphate(3%*) **GAL WT: 11.90 WT PCT SOLIDS: 65.03 VOL PCT SOLIDS: 43.35 SOLVENT DENSITY: 7.26 VOC LE: 4.1 VOC AP: 4.0 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

421-08™ Acrylic polymer-C, Butyl acetate, Carbon black(0.6%), Hydrous magnesium silicate, Isopropyl alcohol, Methyl ethyl ketone, Titanium dioxide(6.8%), Toluene(8%*@) **GAL WT: 10.31 WT PCT SOLIDS: 56.62 VOL PCT SOLIDS: 37.43 SOLVENT DENSITY: 7.15 VOC LE: 4.5 VOC AP: 4.5 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

421-09™ Acetone, Acrylic polymer-C, Butyl acetate, Carbon black(0.5%), Hydrous magnesium silicate, Isopropyl alcohol, Methyl ethyl ketone, Red iron oxide light, Toluene(9%*@) **GAL WT: 9.97 WT PCT SOLIDS: 54.07 VOL PCT SOLIDS: 35.93 SOLVENT DENSITY: 7.14 VOC LE: 4.5 VOC AP: 4.2 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

421-10™ 4-chlorobenzotrifluoride, Acetone, Acrylic polymer-A, Barium sulfate, Butyl acetate, Carbon black(0.2%), Ethylbenzene(0.7%*@), Hydrous magnesium silicate, Limestone (calcium carbonate), Methyl amyl ketone, Propylene glycol monomethyl ether acetate, Titanium dioxide(6.1%), Xylene(3%*@) **GAL WT: 13.38 WT PCT SOLIDS: 58.19 VOL PCT SOLIDS: 42.58 SOLVENT DENSITY: 9.74 VOC LE: 2.1 VOC AP: 1.3 FLASH POINT: 20 °F to below 73 °F H: 1 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

421-17™ Acrylic polymer-A, Barium sulfate, Butyl acetate, Ethylbenzene(3.0%*@), Hydrous magnesium silicate, Limestone (calcium carbonate), Methyl amyl ketone, Methyl ethyl ketone, Propylene glycol monomethyl ether acetate, Titanium dioxide(8.8%), Xylene(12%*@), Yellow iron oxide **GAL WT: 12.29 WT PCT SOLIDS: 67.09 VOL PCT SOLIDS: 43.79 SOLVENT DENSITY: 7.20 VOC LE: 4.0 VOC AP: 3.9 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

421-19™ Acrylic polymer-A, Barium sulfate, Butyl acetate, Carbon black(0.1%), Ethylbenzene(3.0%*@), Hydrous magnesium silicate, Limestone (calcium carbonate), Methyl amyl ketone, Methyl ethyl ketone, Propylene glycol monomethyl ether acetate, Titanium dioxide(5.9%), Xylene(12%*@) **GAL WT: 11.93 WT PCT SOLIDS: 65.61 VOL PCT SOLIDS: 42.82 SOLVENT DENSITY: 7.18 VOC LE: 4.1 VOC AP: 4.0 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA**

STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES

421-20™ Acrylic polymer-D, Butyl acetate, Carbon black(0.2%), Hydrous magnesium silicate, Limestone (calcium carbonate), Propylene glycol monomethyl ether acetate, Quartz-crystalline silica(0.2%), Titanium dioxide(5.4%) **GAL WT: 11.62 WT PCT SOLIDS: 61.62 VOL PCT SOLIDS: 40.24 SOLVENT DENSITY: 7.45 VOC LE: 4.5 VOC AP: 4.5 FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

421-23™ Acrylic polymer-B, Barium sulfate, Carbon black(0.2%), Ethyl acetate, Ethylbenzene(2.2%*), Glycol dibenzoate ester, Hydrous magnesium silicate, Isopropyl alcohol, Limestone (calcium carbonate), Titanium dioxide(8.6%), Toluene(16%*), Xylene(9%*) **GAL WT: 11.02 WT PCT SOLIDS: 58.55 VOL PCT SOLIDS: 36.31 SOLVENT DENSITY: 7.17 VOC LE: 4.6 VOC AP: 4.6 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

421-30™ Acetone, Carbon black(0.2%), Ester gum, Ethyl 3-ethoxy propionate, Ethylbenzene(0.3%*), Glycol dibenzoate ester, Hydrous magnesium silicate, Isopropyl alcohol, N-butyl alcohol(1%), Nitrocellulose, Propylene glycol monomethyl ether acetate, Titanium dioxide(8.0%), Xylene(1%*) **GAL WT: 10.95 WT PCT SOLIDS: 64.77 VOL PCT SOLIDS: 46.68 SOLVENT DENSITY: 6.76 VOC LE: 2.0 VOC AP: 1.2 FLASH POINT: Below 20 °F H: 2 F: 3 R: 2 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

421-40™ Acetone, Butyl acetate, Cobalt octoate(0.2%*), Hydrous magnesium silicate, Limestone (calcium carbonate), Magnesite, Methyl isobutyl ketone(2.0%*), Polyester resin-A, Styrene(26.9%*), Titanium dioxide(0.9%), Vm&p naphtha-A **GAL WT: 10.22 WT PCT SOLIDS: 54.92 VOL PCT SOLIDS: 36.52 SOLVENT DENSITY: 7.21 VOC LE: 4.2 VOC AP: 3.4 FLASH POINT: Below 20 °F H: 2 F: 3 R: 2 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

422-23™ Acetone, Acrylic resin, Alkyd resin, Butyl acetate, Carbon black(0.6%), Ethyl 3-ethoxy propionate, Ethylbenzene(0.6%*), Glycol dibenzoate ester, Limestone (calcium carbonate), Methyl amyl ketone, Methyl isobutyl ketone(0.8%*), Quartz-crystalline silica(2.1%), Titanium dioxide(2.0%), Toluene(3%*), Xylene(3%*) **GAL WT: 8.11 WT PCT SOLIDS: 32.18 VOL PCT SOLIDS: 20.51 SOLVENT DENSITY: 6.88 VOC LE: 4.6 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: NO**

422-46™ Alkyd resin, Aluminum hydroxide, Butyl acetate, Carbon black(1.4%), Cobalt neodecanoate(0.1%*), Ethylbenzene(0.3%*), Ethylene glycol monobutyl ether acetate(1%*), Hydrotreated heavy naphtha (petroleum), Propylene glycol monomethyl ether acetate, Titanium dioxide(24.9%), Toluene(4%*), Vm&p naphtha-B, Xylene(1%*) **GAL WT: 10.30 WT PCT SOLIDS: 64.90 VOL PCT SOLIDS: 49.22 SOLVENT DENSITY: 7.12 VOC LE: 3.6 VOC AP: 3.6 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

422-50™ Acetone, Acrylic polymer-A, Barium sulfate, Butyl acetate, Carbon black(0.2%), Ethylbenzene(2.3%*), Hydrous magnesium silicate, Limestone (calcium carbonate), Methyl amyl ketone, Polyester resin-B, Propylene glycol monomethyl ether acetate, Titanium dioxide(5.9%), Xylene(9%*), Zinc phosphate(2%*) **GAL WT: 10.68 WT PCT SOLIDS: 58.27 VOL PCT SOLIDS: 36.92 SOLVENT DENSITY: 7.07 VOC LE: 4.3 VOC AP: 4.1 FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

422-51™ Acetone, Acrylic polymer-A, Butyl acetate, Ethylbenzene(2.2%*), Hydrous magnesium silicate, Limestone (calcium carbonate), Methyl amyl ketone, Polyester resin-B, Propylene glycol monomethyl ether acetate, Titanium dioxide(15.7%), Xylene(9%*), Zinc oxide(1%), Zinc phosphate(6%*) **GAL WT: 10.82 WT PCT SOLIDS: 58.24 VOL PCT SOLIDS: 36.38 SOLVENT DENSITY: 7.14 VOC LE: 4.4 VOC AP: 4.1 FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

422-52™ Acetone, Acrylic polymer-A, Barium sulfate, Butyl acetate, Carbon black(1.0%), Ethylbenzene(2.3%*), Hydrous magnesium silicate, Limestone (calcium carbonate), Methyl amyl ketone, Polyester resin-B, Propylene glycol monomethyl ether acetate, Titanium dioxide(0.2%), Xylene(9%*), Zinc phosphate(2%*) **GAL WT: 10.70 WT PCT SOLIDS: 58.33 VOL PCT SOLIDS: 36.86 SOLVENT DENSITY: 7.07 VOC LE: 4.3 VOC AP: 4.1 FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

491-10™ 4-chlorobenzotrifluoride, Acetone, Barium sulfate, Carbon black(0.1%), Epoxy resin, Ethylbenzene(0.5%*), Limestone (calcium carbonate), N-butyl alcohol(3%), Strontium phosphate, Titanium dioxide(6.8%), Wollastonite, Wollastonite, Xylene(2%*), Zinc phosphate(6%), Zirconium oxide **GAL WT: 13.16 WT PCT SOLIDS: 61.49 VOL PCT SOLIDS: 44.95 SOLVENT DENSITY: 9.23 VOC LE: 1.4 VOC AP: 0.8 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO**

491-16™ 1,2,4-trimethyl benzene(3%), Acetone, Acrylic polymer-A, Aluminum hydroxide, Aromatic hydrocarbon, Bisphenol-epichlorohydrin type polymer, Carbon black(0.3%), Cumene(0.2%*), Epoxy resin, Ethylbenzene(0.4%*), Hydrous magnesium silicate, Kaolin, Limestone (calcium carbonate), Methyl isoamyl ketone, N-butyl alcohol(4%), Titanium dioxide(0.1%), Titanium dioxide(23.8%), Xylene(2%*), Zinc phosphate(4%*) **GAL WT: 11.99 WT PCT SOLIDS: 69.82 VOL PCT SOLIDS: 47.86 SOLVENT DENSITY: 6.92 VOC LE: 3.1 VOC AP: 2.6 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

491-21™ 1,2,4-trimethyl benzene(1%), Acrylic polymer-A, Alkyd resin, Aromatic hydrocarbon, Butyl acetate, Cobalt neodecanoate(0.2%*), Ethylbenzene(3.5%*), Limestone (calcium carbonate), Methyl amyl ketone, Quartz-crystalline silica(0.2%), Red iron oxide light, Titanium dioxide(2.9%), Toluene(2%*), Xylene(14%*) **GAL WT: 12.07 WT PCT SOLIDS: 71.54 VOL PCT SOLIDS: 52.27 SOLVENT DENSITY: 7.19 VOC LE: 3.4 VOC AP: 3.4 FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

491-22™ 1,2,4-trimethyl benzene(1%), Acrylic polymer-A, Alkyd resin, Aromatic hydrocarbon, Butyl acetate, Carbon black(0.3%), Cobalt neodecanoate(0.2%*), Ethylbenzene(3.3%*), Limestone (calcium carbonate), Methyl amyl ketone, Quartz-crystalline silica(0.2%), Red iron oxide light, Titanium dioxide(9.3%), Toluene(2%*), Xylene(13%*) **GAL WT: 12.18 WT PCT SOLIDS: 72.62 VOL PCT SOLIDS: 53.65 SOLVENT DENSITY: 7.19 VOC LE: 3.3 VOC AP: 3.3 FLASH POINT: 73 °F to below 100 °F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

491-30™ Aluminium and phosphor mixture, Butylated phenol-formaldehyde resin, Carbon black(0.1%), Cristobalite siO2(0.6%), Isopropyl alcohol, Methyl ethyl ketone, Methyl isobutyl ketone(13.5%*), N-butyl alcohol(9%), Polyvinyl butyral resin, Titanium dioxide(3.3%), Yellow iron oxide, Zinc oxide(2%), Zinc phosphate(3%*) **GAL WT: 7.94 WT PCT SOLIDS: 28.11 VOL PCT SOLIDS: 14.60 SOLVENT DENSITY: 6.72 VOC LE: 5.7 VOC AP: 5.7 FLASH POINT: 20 °F to below 73 °F H: 3 F: 3 R: 1**

OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: NO

491-35™ 1,2,4-trimethyl benzene(3%*), Acetone, Acrylic polymer-A, Aluminum hydroxide, Aromatic hydrocarbon, Bisphenol-epichlorohydrin type polymer, Cumene(0.2%***@**), Epoxy resin, Ethylbenzene(0.4%***@**), Hydrous magnesium silicate, Kaolin, Limestone (calcium carbonate), Methyl isoamyl ketone, N-butyl alcohol(4%*), Titanium dioxide(0.1%), Titanium dioxide(24.0%), Xylene(2%***@**), Zinc phosphate(5%*) **GAL WT: 12.02 WT PCT SOLIDS: 70.00 VOL PCT SOLIDS: 47.99 SOLVENT DENSITY: 6.92 VOC LE: 3.1 VOC AP: 2.6 FLASH POINT: 20 °F to below 73 °F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In Compliance PHOTOCHEMICALLY REACTIVE: YES**

491-55™ 4-chlorobenzotrifluoride, Acetone, Butylated phenol-formaldehyde resin, Carbon black(0.2%), Epoxy resin, Hydrous magnesium silicate, Isopropyl alcohol, N-butyl alcohol(6%*), Polyvinyl butyral resin, Titanium dioxide(0.8%), Zinc oxide(3%*) **GAL WT: 8.23 WT PCT SOLIDS: 19.88 VOL PCT SOLIDS: 11.98 SOLVENT DENSITY: 7.48 VOC LE: 3.7 VOC AP: 1.0 FLASH POINT: Below 20 °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.

* VOC less exempt (theoretical) and VOC as packaged (theoretical) are based upon the VOC of the packaged material at the point of manufacture.

All products denoted with TM or ® are trademarks or registered trademarks of E. I. du Pont de Nemours and Company or its affiliates.

* = 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