

DuPont Performance Coatings
MATERIAL SAFETY DATA SHEET
AEROSOLS

SECTION 1 - Product and Company Identification			INGREDIENTS	CAS#	VAPOR PRESSURE	EXPOSURE LIMITS
Manufacturer:	E.I. du Pont de Nemours & Co. Dupont Performance Coatings Wilmington, DE, 19898					Respirable Dust A 2.0 mg/m3 Respirable Dust O None
Telephone:	Product Information:	(800) 441-7515	AROMATIC HYDROCARBON	64742-95-6	10.0@25.0°C	D 50.0 ppm A None O None
	Medical Emergency:	(800) 441-3637				
	Transportation Emergency:	(800) 424-9300 (CHEMTREC)				
Product:	AEROSOLS		BARIUM SULFATE	7727-43-7	None	A 10.0 mg/m3 Total Dust D 10.0 mg/m3 Total Dust O 15.0 mg/m3 Total Dust A 5.0 mg/m3 Respirable Dust O 5.0 mg/m3 Respirable Dust
DOT Shipping Name:	See DOT addendum.					
Hazardous Materials Information:	See Section 10.					

SECTION 2 - Composition, Information on Ingredients

INGREDIENTS	CAS#	VAPOR PRESSURE	EXPOSURE LIMITS	INGREDIENTS	CAS#	VAPOR PRESSURE	EXPOSURE LIMITS
Acrylic resins, physically drying NotAvail		7.3@0.0	A None O None	BISPHENOL-EPICHLOROHYDRIN TYPE POLYMER	25068-38-6	None	A None O None
Adhesive aids	NotAvail	None	A None O None	BLACK IRON OXIDE	1317-61-9	None	O 15.0 mg/m3 A 10.0 mg/m3 inhalable dust
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	BUTANE	106-97-8	None	A 1000.0 ppm O None
ACRYLIC POLYMER-A	NotAvail	None	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
ACRYLIC POLYMER-B	9011-14-7	None	A None O None	BUTYL BENZYL PHTHALATE	85-68-7	0.0	D 5.0 mg/m3 8 & 12 hour TWA A None O None
ALDECRYL 925	NotAvail	None	A None O None	CARBON BLACK	1333-86-4	None	A 3.5 mg/m3 O 3.5 mg/m3 D 0.5 mg/m3 8 & 12 hour TWA
ALDEKAL 625	NotAvail	None	A None O None	CARBON DIOXIDE	124-38-9	838.0@70.0°F	A 5000.0 ppm O 5000.0 ppm
ALKYD RESIN	67922-67-2	None	A None O None	CRISTOBALITE SI02	14464-46-1	None	A 50.0 ug/m3 D 0.1 mg/m3
AMORPHOUS SILICA-FUMED	68611-44-9	None	D 1.0 mg/m3				

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INGREDIENTS	CAS#	VAPOR PRESSURE	EXPOSURE LIMITS Respirable Dust O None	INGREDIENTS	CAS#	VAPOR PRESSURE	EXPOSURE LIMITS Total Dust O 5.0 mg/m3 TWA Respirable Dust A 2.0 mg/m3 Respirable Dust
CYCLOHEXANE	110-82-7	100.0@60.0°C	A 100.0 ppm O None				
CYCLOHEXANE, METHYL-	108-87-2	None	A 400.0 ppm O 400.0 ppm	LIQUIFIED COMPRESSED GAS	68476-85-7	None	A 1000.0 ppm O 1000.0 ppm
DIOCTYL PHTHALATE	117-81-7	0.0	A 5.0 mg/m3 D 1.0 mg/m3 8 & 12 hour TWA O None	MEDIUM MINERAL SPIRITS	64742-88-7	0.3@68.0°F	D 50.0 ppm 8 & 12 hour TWA A None O None
EPOXY ACRYLATE RESIN	NotAvail	None	A None O None	METHANE, OXYBIS-	115-10-6	None	A 1000.0 ppm TWA O None
ETHYL ACETATE	141-78-6	93.2@25.0°C	A 400.0 ppm O 400.0 ppm	METHYL AMYL KETONE	110-43-0	3.4	A 50.0 ppm O 100.0 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	METHYL ETHYL KETONE	78-93-3	89.0@0.0	A 300.0 ppm 15 min STEL D 300.0 ppm 15 min TWA A 200.0 ppm O 200.0 ppm D 200.0 ppm 8 & 12 hour TWA
HEPTANE	142-82-5	45.0@66.0°F	A 500.0 ppm 15 min STEL A 400.0 ppm O 500.0 ppm	METHYL ISOBUTYL KETONE	108-10-1	15.1	A 75.0 ppm 15 min STEL A 50.0 ppm O 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 O None	METHYL PYRROLIDONE	872-50-4	0.3	A 5.0 ppm 8 & 12 hour TWA D 5.0 ppm 8 & 12 hour TWA Skin O None
ISOBORNYL ACRYLATE ESTERS	5888-33-5	20.0@140.0°C	A None O None	N-BUTYL ALCOHOL	71-36-3	5.6@68.0°F	D 50.0 ppm 15 min TWA A 20.0 ppm D 25.0 ppm O 100.0 ppm
ISOPROPYL ALCOHOL	67-63-0	48.0	A 500.0 ppm 15 min STEL A 400.0 ppm O 400.0 ppm D 400.0 ppm 8 & 12 hour TWA	N-HEXANE	110-54-3	180.0@25.0°C	O 500.0 ppm A 50.0 ppm Skin D 25.0 ppm
KAOLIN	1332-58-7	None	O 15.0 mg/m3 TWA				

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INGREDIENTS	CAS#	VAPOR PRESSURE	EXPOSURE LIMITS	INGREDIENTS	CAS#	VAPOR PRESSURE	EXPOSURE LIMITS
			8 & 12 hour TWA Skin	TALC MICRONIZED	NotAvail	None	A None O None
N-PROPANOL	71-23-8	19.0	O 250.0 ppm 15 min STEL A 400.0 ppm 15 min STEL D 200.0 ppm A 200.0 ppm Skin O 200.0 ppm Skin	TITANIUM DIOXIDE	13463-67-7	None	A 10.0 mg/m3 D 10.0 mg/m3 Total Dust O 15.0 mg/m3 Total Dust D 5.0 mg/m3 Respirable Dust
N-PROPYL ACETATE	109-60-4	None	A 250.0 ppm 15 min STEL A 200.0 ppm O 200.0 ppm	TOLUENE	108-88-3	22.0	O 300.0 ppm CEIL O 500.0 ppm 10 min TWA O 200.0 ppm D 50.0 ppm 8 & 12 hour TWA A 50.0 ppm Skin
NITROCELLULOSE	9004-70-0	None	A None O None	UNSATURATED URETHANE ACRYLATE RESIN	NotAvail	None	A None O None
PHOSPHINE OXIDE, PHENYLBIS(2,4,6 - TRIMETHYL BENZOYL)-	162881-26-7	6.0@25.0°C	S 1.0 mg/m3 Skin A None O None	VM&P NAPHTHA	8032-32-4	17.9@68.0°F	D 100.0 ppm A 300.0 ppm O None
POLYESTER RESIN-A	64296-27-1	None	A None O None	XYLENE	1330-20-7	8.0@25.0°C	A 150.0 ppm 15 min STEL D 150.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 100.0 ppm 8 & 12 hour TWA
POLYVINYL BUTYRAL RESIN	68648-78-2	None	A None O None	ZINC CHROMATE	13530-65-9	None	A 10.0 ug/m3 Cr O 0.1 mg/m3 CEIL CrO3
POLYVINYL BUTYRALDEHYDE	63148-65-2	None	A None O None	ZINC OXIDE	1314-13-2	None	O 15.0 mg/m3 Total Dust A 10.0 mg/m3 15 min STEL Respirable Dust A 2.0 mg/m3 Respirable Dust O 5.0 mg/m3 Respirable Dust
PROPIONIC ACID, N-BUTYL ESTER	590-01-2	3.4@25.0°C	D 100.0 ppm 8 & 12 hour TWA A None O None				
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	3.8	D 10.0 ppm 8 & 12 hour TWA A None O None				
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				

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INGREDIENTS	CAS#	VAPOR PRESSURE	EXPOSURE LIMITS
ZINC PHOSPHATE	7779-90-0	None	O 5.0 mg/m3 Respirable Dust A None
2,2,4-TRIMETHYLPENTANE	540-84-1	None	A 300.0 ppm O 500.0 ppm

*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.

INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS MAY BE HARMFUL OR FATAL.

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:

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-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 skin rash

BUTANE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: cardiovascular system. Eye contact may cause any of the following: swelling, reversible eye injury. This gas is a simple asphyxiant, which at high concentrations can reduce the amount of oxygen available for breathing.

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.

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.

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.

DIOCTYL PHTHALATE

Cancer hazard based on tests with laboratory animals. Overexposure may create cancer risk. Tests in animals demonstrate reproductive toxicity.

EPOXY ACRYLATE RESIN

Eye contact may cause any of the following: irritation, redness swelling, tearing.

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.

HEPTANE

Increased susceptibility to the effects of this material may be observed in people with preexisting disease of any of the following: central nervous system, respiratory system, skin. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. 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. Aspiration may occur during swallowing or vomiting, resulting in lung damage.

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 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.

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KAOLIN

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

LIQUIFIED COMPRESSED GAS

May possibly cause modest initial irritation, followed in hours by severe shortness of breath, requiring prompt medical attention. May cause central nervous system effects such as temporary muscular weakness and loss of coordination. Contact may cause skin burns. Can irritate or burn eyes.

MEDIUM MINERAL SPIRITS

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. This substance may cause damage to any of the following organs/systems: blood, central nervous system, eyes, kidneys liver, lungs, reproductive system, skin. 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.

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 ISOBUTYL KETONE

The following medical conditions may be aggravated by exposure: asthma, respiratory disease, eye disorders, pulmonary conditions skin disorders. Repeated or prolonged skin contact may cause any of the following: dryness, cracking of the skin, defatting. Inhalation may cause any of the following: dizziness, stupor (central nervous system depression), drowsiness, respiratory tract irritation.

METHYL PYRROLIDONE

The following medical conditions may be aggravated by exposure: skin disorders. Tests in some laboratory animals indicate this compound may have embryotoxic activity. Tests in laboratory animals have shown effects on any of the following organs/systems: kidneys, liver. WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm.

N-BUTYL ALCOHOL

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

N-HEXANE

May cause abnormal kidney function. Can be absorbed through the skin in harmful amounts. N-hexane can produce peripheral polyneuropathy, a progressive disorder of the nervous system, such as muscular weakness and a loss of feeling in the extremities. With repeated high exposure, effects may become irreversible. Harmful if inhaled. Harmful or fatal if swallowed.

N-PROPANOL

Has shown mutagenic activity in laboratory cell culture tests. Has shown carcinogenic activity in laboratory animals at high doses. Significance to man is unknown. May cause abnormal liver function. Can be absorbed through the skin in harmful amounts.

NITROCELLULOSE

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

POLYVINYL BUTYRAL RESIN

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.

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.

TITANIUM DIOXIDE

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.

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

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.

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.

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ZINC CHROMATE

Is an IARC, NTP or OSHA carcinogen. Health studies have shown that chromate pigment manufacturing may be associated with an increase risk of lung cancer. WARNING: This chemical is known to the State of California to cause cancer.

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.

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

LFL 0.5 % UFL 18.6 %

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. CONTENTS UNDER PRESSURE. Clean nozzle and cap container after each use. Do not puncture or incinerate (burn) container. Exposure to heat or prolonged exposure to sun may cause bursting.

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)	-23 - 102 (°C)
Approx. freezing range (°C)	-141 - -93 (°C)
Gallon weight (lbs/gal)	5.65 - 8.20
Specific gravity	0.68 - 0.98
Percent volatile by volume	76.29 - 100.00
Percent volatile by weight	57.21 - 100.00
Percent solids by volume	0.00 - 23.71
Percent solids by weight	0.00 - 42.79

SECTION 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 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)

215S™ acetone, acrylic polymer-b, butyl benzyl phthalate, carbon black(0.1%), ethylbenzene(0.3-0.8%*), hydrous magnesium silicate,

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isopropyl alcohol, kaolin, liquified compressed gas, methyl ethyl ketone(1%@), titanium dioxide, toluene(32-32%*@), xylene(2-3%*@), zinc chromate(3.5%*@)

GAL WT: 7.70 WT PCT SOLIDS:37.72 VOL PCT SOLIDS:21.06
SOLVENT DENSITY: 6.07 VOC LE: 4.6 VOC AP: 4.2
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

A-19301S™ acrylic polymer-a, ethylbenzene(1.8-4.4%*@), isopropyl alcohol, liquified compressed gas, methyl ethyl ketone(1%@), methyl isobutyl ketone(15%*@), propyleneglycol monomethyl ether acetate , toluene(14-14%*@), xylene(13-16%*@)

GAL WT: 7.05 WT PCT SOLIDS: 5.69 VOL PCT SOLIDS: 4.37
SOLVENT DENSITY: 6.95 VOC LE: 6.6 VOC AP: 6.6
FLASH POINT: Below 20°F H: 2 F: 3 R: 1 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

A-2320S™ isopropyl alcohol, liquified compressed gas, methyl amyl ketone, vm&p naphtha, 2,2,4-trimethylpentane(0-2 %@)

GAL WT: 5.83 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 5.83 VOC LE: 5.8 VOC AP: 5.8
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

A-2330S™ alkyd resin, cyclohexane(2%*), ethyl acetate, ethylbenzene(0.6-1.5%*@), liquified compressed gas, methylethyl ketone (1%@), methyl pyrrolidone(1%*), titanium dioxide, toluene(6-6%*@), xylene(4-5%*@)

GAL WT: 6.25 WT PCT SOLIDS: 6.73 VOL PCT SOLIDS: 3.69
SOLVENT DENSITY: 6.05 VOC LE: 5.8 VOC AP: 5.8
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

A-3130S™ adhesive aids, acetone, barium sulfate, epoxy acrylate resin, hydrous magnesium silicate, isobornyl acrylate esters, methane, oxybis-, n-propyl acetate, phosphine oxide, phenylbis(2,4,6 - trimethyl benzoyl)-, unsaturated urethane acrylate resin, zinc oxide(1%*), zinc phosphate(4%*)

GAL WT: 8.20 WT PCT SOLIDS:42.79 VOL PCT SOLIDS:23.71
SOLVENT DENSITY: 6.15 VOC LE: 4.3 VOC AP: 3.5
FLASH POINT: Below 20°F H: 2 F: 3 R: 1 OSHA STORAGE: IA
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

A-3970S™ aromatic hydrocarbon(0-1%), carbon dioxide, cyclohexane, methyl-, ethylbenzene(0.1-0.1%*@), heptane(41-41 %), medium mineral spirits, n-hexane(2%*), toluene(10-10 %*@), vm&p naphtha

GAL WT: 7.27 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 7.27 VOC LE: 7.3 VOC AP: 7.3
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

A-3990S™ aromatic hydrocarbon(0-3%), carbon dioxide, ethylbenzene(0.0-0.2%*@), heptane(20-20%), medium mineral spirits, toluene(11-11%*@), vm&p naphtha

GAL WT: 7.53 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 7.53 VOC LE: 7.5 VOC AP: 7.5
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

A-4114S™ acetone, bisphenol-epichlorohydrin type polymer, butyl acetate, ethylbenzene(0.3-0.8%*@), hydrous magnesium silicate, liquified compressed gas, n-butyl alcohol(12%*), polyvinyl butyraldehyde, propylene glycolmonomethyl ether acetate , titanium dioxide, xylene(3-3 %*@), zinc phosphate(2%*)

GAL WT: 6.62 WT PCT SOLIDS:14.32 VOL PCT SOLIDS: 5.49
SOLVENT DENSITY: 6.00 VOC LE: 5.1 VOC AP: 3.3

FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

A-4115S™ acetone, bisphenol-epichlorohydrin type polymer, butyl acetate, carbon black(0.1%), ethylbenzene(0.3-0.8 %*@), hydrous magnesium silicate, liquified compressed gas, n-butyl alcohol(13%*), polyvinyl butyraldehyde, propylene glycol monomethyl ether acetate, titanium dioxide, xylene(3-3%*@), zinc phosphate(2%*)

GAL WT: 6.63 WT PCT SOLIDS:14.41 VOL PCT SOLIDS: 5.51
SOLVENT DENSITY: 6.01 VOC LE: 5.2 VOC AP: 3.4
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

A-4119S™ acetone, amorphous silica-fumed, barium sulfate, bisphenol-epichlorohydrin type polymer, black iron oxide, butane, butyl acetate, carbon black(0.1%), ethylbenzene(0.1-0.2%*@), liquified compressed gas, n-butyl alcohol(10%*), n-propanol, polyvinyl butyral resin, propylene glycol monomethyl ether acetate, talc micronized

GAL WT: 6.90 WT PCT SOLIDS:19.45 VOL PCT SOLIDS: 7.41
SOLVENT DENSITY: 6.01 VOC LE: 5.0 VOC AP: 3.3
FLASH POINT: Below 20°F H: 2 F: 3 R: 1 OSHA STORAGE: IA
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

A-4120S™ acetone, amorphous silica-fumed, bisphenol-epichlorohydrin type polymer, butyl acetate, ethylbenzene(0.4-1.0 %*@), hydrous magnesium silicate, isopropyl alcohol, liquified compressed gas, n-butyl alcohol(7%*), polyvinyl butyraldehyde, propylene glycol monomethyl ether acetate, titanium dioxide, xylene(4-4%*@), zinc phosphate(2%*)

GAL WT: 6.82 WT PCT SOLIDS:18.33 VOL PCT SOLIDS: 7.22
SOLVENT DENSITY: 6.00 VOC LE: 5.1 VOC AP: 3.6
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

A-4140S™ acetone, bisphenol-epichlorohydrin type polymer, butyl acetate, ethylbenzene(0.3-0.8%*@), hydrous magnesium silicate, liquified compressed gas, n-butyl alcohol(12%*), polyvinyl butyraldehyde, propylene glycolmonomethyl ether acetate , titanium dioxide, xylene(3-3 %*@), zinc phosphate(2%*)

GAL WT: 6.62 WT PCT SOLIDS:14.32 VOL PCT SOLIDS: 5.49
SOLVENT DENSITY: 6.00 VOC LE: 5.1 VOC AP: 3.3
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

A-4160S™ acetone, amorphous silica-fumed, bisphenol-epichlorohydrin type polymer, butyl acetate, carbon black(0.6 %), ethylbenzene(0.4-0.9%*@), hydrous magnesium silicate, isopropyl alcohol, liquified compressed gas, nbutyl alcohol (6%*), polyvinyl butyraldehyde, propylene glycol monomethyl ether acetate, titanium dioxide, xylene(3-4%*@), zinc phosphate(2%*)

GAL WT: 6.70 WT PCT SOLIDS:15.91 VOL PCT SOLIDS: 6.43
SOLVENT DENSITY: 6.02 VOC LE: 5.1 VOC AP: 3.4
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

A-4220S™ acetone, aldecril 925, barium sulfate, butane, butylacetate , butyl benzyl phthalate, cristobalite siO2(0.3 %), hydrous magnesium silicate, liquified compressed gas , n-butyl alcohol(3%*), nitrocellulose, propylene glycol monomethyl ether acetate, quartz-crystalline silica(1.6%), titanium dioxide, zinc phosphate(2%*)

GAL WT: 7.07 WT PCT SOLIDS:23.49 VOL PCT SOLIDS: 8.93
SOLVENT DENSITY: 5.93 VOC LE: 4.7 VOC AP: 2.8
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IA
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

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A-4240S™ acetone, aldecryl 925, barium sulfate, butane, butylacetate, butyl benzyl phthalate, carbon black(0.6%), cristobalite siO2(0.3%), hydrous magnesium silicate, liquified compressed gas, n-butyl alcohol(3%*), nitrocellulose, propylene glycol monomethyl ether acetate, quartz-crystalline silica(2.3%), titanium dioxide, zinc phosphate(2%*)

GAL WT: 7.20 WT PCT SOLIDS:26.20 VOL PCT SOLIDS:10.35
SOLVENT DENSITY: 5.92 VOC LE: 4.7 VOC AP: 3.0
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IA
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

A-4260S™ acetone, aldecryl 925, barium sulfate, butane, butylacetate, butyl benzyl phthalate, cristobalite siO2(0.3%), hydrous magnesium silicate, liquified compressed gas, n-butyl alcohol(3%*), nitrocellulose, propylene glycol monomethyl ether acetate, quartz-crystalline silica(2.3%), titanium dioxide, zinc phosphate(2%*)

GAL WT: 7.07 WT PCT SOLIDS:23.30 VOL PCT SOLIDS: 9.10
SOLVENT DENSITY: 5.96 VOC LE: 4.8 VOC AP: 3.1
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IA
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

A-5099S™ acetone, carbon black(0.5%), dioctyl phthalate(3%*), ethylbenzene(0.4-1.0%*@), isopropyl alcohol, liquified compressed gas, methyl ethyl ketone(8%*), methyl isobutyl ketone(7%*@), nitrocellulose, polyester resin-a, propylene glycol monomethyl ether acetate, toluene(8-8%*@), xylene(3-4%*@)

GAL WT: 6.59 WT PCT SOLIDS:14.08 VOL PCT SOLIDS: 8.55
SOLVENT DENSITY: 6.19 VOC LE: 5.2 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

A-7160S™ acetone, butyl acetate, ethylbenzene(0.3-0.6%*@), heptane, isopropyl alcohol, liquified compressed gas, methyl ethyl ketone(7%*), propionic acid, n-butyl ester, toluene(6-6%*@), xylene(2-2%*@)

GAL WT: 5.65 WT PCT SOLIDS: 0.07 VOL PCT SOLIDS: 0.04
SOLVENT DENSITY: 5.65 VOC LE: 5.3 VOC AP: 3.9
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IB
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

A-7480S™ acrylic resins, physically drying, acetone, aldekal 625, butane, butyl benzyl phthalate, ethylbenzene(1.0-2.4 %*@), isopropyl alcohol, liquified compressed gas, nbutyl alcohol (7%*), propylene glycol monomethyl ether acetate, toluene(13-13%*@), xylene(7-9%*@)

GAL WT: 6.12 WT PCT SOLIDS:14.93 VOL PCT SOLIDS: 9.89
SOLVENT DENSITY: 5.81 VOC LE: 5.0 VOC AP: 4.2
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IA
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

A-7481S™ acrylic resins, physically drying, acetone, aldekal 625, butane, butyl acetate, butyl benzyl phthalate, ethylbenzene(1.0-2.4%*@), isopropyl alcohol, n-propanol, propane, propylene glycol monomethyl ether acetate, toluene(3-3%*@), xylene(7-9%*@)

GAL WT: 7.42 WT PCT SOLIDS:14.91 VOL PCT SOLIDS:11.95
SOLVENT DENSITY: 7.22 VOC LE: 6.1 VOC AP: 4.8
FLASH POINT: Below 20°F H: 2 F: 3 R: 0 OSHA STORAGE: IA
TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

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. du Pont 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.

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