

DuPont Performance Coatings
MATERIAL SAFETY DATA SHEET
Nason® 421-40™ Ful-Fil™ HS Polyester Spray Filler
Nason® 483-92™ Polyester Activator

SECTION 1 - Product and Company Identification		INGREDIENTS	CAS#	VAPOR PRESSURE	EXPOSURE LIMITS
Manufacturer:	E.I. duPont de Nemours & Co. Dupont Performance Coatings Wilmington, DE, 19898				O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dust
Telephone:	Product Information: (800) 441-7515 Medical Emergency: (800) 441-3637 Transportation Emergency: (800) 424-9300 (CHEMTREC)	MAGNESITE	546-93-0	None	A 10.0 mg/m3 O None
Product:	Nason® 421-40™ Ful-Fil™ HS Polyester Spray Filler Nason® 483-92™ Polyester Activator	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
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
				METHYL ETHYL KETONE PEROXIDE	1338-23-4	None	A 1.5 mg/m3 CEIL O 1.5 mg/m3 CEIL
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	METHYL ISOBUTYL KETONE	108-10-1	15.1	A 75.0 ppm 15 min STEL A 50.0 ppm O 100.0 ppm
BUTYL ACETATE	123-86-4	10.0	A 200.0 ppm 15 min STEL A 150.0 ppm O 150.0 ppm	POLYESTER RESIN	NotAvail	4.5@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	STYRENE	100-42-5	6.0	O 200.0 ppm CEIL A 40.0 ppm 15 min STEL D 40.0 ppm 15 min STEL A 20.0 ppm O 100.0 ppm D 20.0 ppm 8 & 12 hour TWA O 600.0 ppm 5 min STEL Maximum
HYDROGEN PEROXIDE	7722-84-1	None	O 1.4 mg/m3 A 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 O None	VM&P NAPHTHA	64742-89-8	50.0@25.0°C	O 400.0 ppm 15 min STEL D 100.0 ppm A 300.0 ppm O 300.0 ppm
LIMESTONE	1317-65-3	None	A 10.0 mg/m3				



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INGREDIENTS	CAS#	VAPOR PRESSURE	EXPOSURE LIMITS
WATER	7732-18-5	23.6	A None O None
2,2,4-TRIMETHYL-1,3-PENTANEDIOL DIISOBUTYRATE	6846-50-0	None	A None O None

SECTION 3 - Hazards Information

Potential Health Effects:

Inhalation:

May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Ingestion:

May result in gastrointestinal distress.

Skin or eye contact:

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Other Potential Health Effects in addition to those listed above:

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.

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.

COBALT OCTOATE

Is an IARC, NTP or OSHA carcinogen. Skin contact may cause any of the following: dermatitis, irritation skin sensitization. Inhalation may cause any of the following: sensitization. DuPont has classified this as: a possible human carcinogen

HYDROGEN PEROXIDE

The following medical conditions may be aggravated by exposure: asthma, dermatitis, respiratory disease. Ingestion may cause any of the following: aspiration leading to lung damage. Skin contact may cause any of the following: severe redness, chemical burns. Vapor exposure may cause any of the following eye effects: conjunctivitis, burns, corneal injury, permanent eye injury. If absorbed through the skin, may be: moderately toxic. Ingestion may cause severe irritation or damage to any of the following: gastrointestinal system, stomach, mucous membranes. Inhalation may cause any of the following: respiratory tract irritation, pulmonary edema.

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 ETHYL KETONE PEROXIDE

Recurrent overexposure may result in liver and kidney injury. Corrosive. If ingested, may be: fatal. Eye contact may cause any of the following: permanent eye injury, blindness. Inhalation may cause any of the following: respiratory tract irritation. Skin or eye contact may cause any of the following: severe irritation, burns.

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.

STYRENE

Is an IARC, NTP or OSHA carcinogen. May cause any of the following central nervous system effects: loss of consciousness. Repeated exposure to vapors may cause loss of color discrimination. Tests in laboratory animals have shown effects on any of the following organs/systems: liver. If ingested, may be: harmful or fatal.

VM&P NAPHTHA

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.

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 0.0 % 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 & 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.

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SECTION 6 - Accidental Release Measures

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

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

SECTION 7 - Handling and Storage

Precautions to be taken in handling and storing:

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

Other precautions:

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

SECTION 8 - Exposure Controls or Personal Protection

Engineering controls and work practices:

Ventilation:

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

Respiratory:

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

Protective clothing:

Neoprene gloves and coveralls are recommended.

Eye protection:

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

SECTION 9 - Physical and Chemical Properties

Evaporation Rate	Slower than Ether
Solubility in water	NIL
Vapor Density	Heavier than air
Approx. boiling range (°C)	No Data Available
Approx. freezing range (°C)	-22 - -22 (°C)
Gallon weight (lbs/gal)	8.35 - 10.24
Specific gravity	1.00 - 1.23
Percent volatile by volume	46.87 - 66.01
Percent volatile by weight	5.00 - 46.22
Percent solids by volume	33.99 - 53.13
Percent solids by weight	53.78 - 95.00

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)

421-40™ acetone, butyl acetate, cobalt octoate(0.2%*@), hydrous magnesium silicate, limestone, magnesite, methyl ethyl ketone (2%@), methyl isobutyl ketone(2%*@), polyester resin, styrene(28.0%*@), vm&p naphtha

GAL WT:10.24 WT PCT SOLIDS:53.78 VOL PCT SOLIDS:33.99

SOLVENT DENSITY: 7.22 VOC LE: 4.4 VOC AP: 3.7

FLASH POINT: Below 20°F H: 2 F: 3 R: 2 OSHA STORAGE: IB

TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

483-92™ hydrogen peroxide, methyl ethyl ketone(1%@), methyl ethyl ketone peroxide, water, 2,2,4-trimethyl-1,3-pentanediol diisobutyrate

GAL WT: 8.35 WT PCT SOLIDS:95.00 VOL PCT SOLIDS:53.13

SOLVENT DENSITY: 8.69 VOC LE: 0.1 VOC AP: 0.1

FLASH POINT: 141°F - 200°F H: 3 F: 2 R: 2 OSHA STORAGE: IIIA

TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

Footnotes:

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

ACGIH = American Conference of Government Industrial Hygienists.

IARC = International agency for Research on Cancer.

NTP = National Toxicology Program.

OSHA = Occupational Safety and Health Administration.

PNOR = Particles Not Otherwise Regulated.

PNOC = Particles Not Otherwise Classified.

STEL = Short Term Exposure Limit.

TWA = Time Weighted Average.

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

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

@ = Clean Air Act Hazardous Air Pollutant.

= EPCRA Section 302 - Extremely Hazardous Substance.

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**

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