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DUPONT MATERIAL SAFETY DATA SHEET

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***** SECTION 1 - Product and Company Identification *****

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

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

PRODUCT NAME: IMRON(R) VG-6005(TM)-ACTIVATOR
is a registered trademark of E.I. du Pont de Nemours & Company.
DuPont Canada is a licensee.

PRODUCT CODE: VG- 6005 030527

Chemical Family: Catalyst

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

CAS #	Ingredient	Concentration/ Range (%)	Exposure Limits**
28182-81-2	ALIPHATIC POLYISOCYANATE- RESIN		S 1.0 mg/m3 15 min STEL S 0.5 mg/m3 A None O None
822-06-0	1,6-HEXAMETHYLENE DIISOC- YANATE	0.2	A 5.0 ppb O None
123-86-4	BUTYL ACETATE		A 200.0 ppm 15 min STEL A 150.0 ppm O 150.0 ppm
64742-95-6	AROMATIC HYDROCARBON		D 50.0 ppm A None O None
95-63-6	1,2,4-TRIMETHYL BENZENE	2	A 25.0 ppm O 25.0 ppm

OSHA HAZARDOUS? Yes

** A = ACGIH, O = OSHA, D = Dupont, S = Supplier (For additional definition of terms, see Section 16). Limits are 8-hour TWA unless



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***** SECTION 2 - Composition, Information on Ingredients *****
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otherwise specified.

***** SECTION 3 - Hazards Information *****

Emergency Overview:

DANGER! EXPOSURE MAY CAUSE LUNG INJURY AND ALLERGIC RESPIRATORY REACTION. EFFECTS MAY BE PERMANENT. COMBUSTIBLE LIQUID AND VAPOR. VAPORS AND SPRAY MIST HARMFUL IF INHALED. MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS SUCH AS DIZZINESS, HEADACHE, OR NAUSEA. MAY CAUSE NOSE, THROAT, EYE AND SKIN IRRITATION. CAN BE ABSORBED THROUGH THE SKIN.

Potential Health Effects:

Inhalation:

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.

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:

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



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***** SECTION 3 - Hazards Information *****
Cont'd

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.

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.

NOTE:

If a chemical listed above is not identified as a carcinogen it is
not an "IARC, NTP, or OSHA carcinogen".

***** 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 (Method)	100 deg F - 141 deg F	Closed Cup
Approx. flammable limits	No Information Available	
Auto ignition temperature	No Information Available	

Hazardous Combustion Products:

CO, CO2, smoke, and oxides of any heavy metals that are reported in



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***** SECTION 5 - Firefighting Measures *****
Cont'd

"Composition, Information on Ingredients" section.

Extinguishing media:

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

Special 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:

Combustible liquid. When heated above the flashpoint, emits vapors which, when mixed with air, will burn if an ignition source is present. Fine mist or sprays could ignite at temperatures below the flashpoint.

***** SECTION 6 - Accidental Release Measures *****

Procedures for cleaning up spills or leaks:

Ventilate area. If heated above the flashpoint, remove sources of ignition. Do not breathe vapors. Do not get in eyes or on skin.

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 TM 10) and 80% Water OR 0-10% Ammonia, 2-5% Detergent and Water (balance) Confine and remove with inert absorbent. 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.

***** SECTION 7 - Handling and Storage *****

Precautions to be taken in handling and storing:

Observe label precautions. Keep away from heat, flame and other sources of ignition. When heated above its flash point, this must be handled as if it were a flammable liquid. Close container after each use. Do not transfer contents to bottles or unlabeled containers. Wash thoroughly after handling and before eating or smoking.

OSHA/NFPA Storage Classification: II

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.

***** SECTION 8 - Exposure Controls or Personal Protection *****

Engineering controls and work practices:

Ventilation:

Provide sufficient ventilation in volume and pattern to keep



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***** SECTION 8 - Exposure Controls or Personal Protection *****
Cont'd

contaminants below applicable exposure limits.

Personal Protective Equipment:

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

Respiratory:

Do not breathe vapors or mists. Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C) during the spray application (or brush or roll application in poorly ventilated areas) of this product and until all vapors and spray mist are exhausted. For mixing and for brush and roll application in well-ventilated areas, a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH TC-23C) 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 to vapor or spray mist.

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
Vapor Pressure of principal solvent	10.00 mm @ 25 Deg C
Solubility of solvent in water	NIL
Vapor density of principal solvent (Air = 1)	4.00
Approx. Boiling range	203 DEG (C)
Approx. Freezing range	203 - 203 DEG (C)
Gallon weight (lbs/gal)	9.35
Specific gravity	1.12
Percent volatile by volume	12.77
Percent volatile by weight	10.00
Percent solids by volume	87.23
Percent solids by weight	90.00
Odor	Characteristic Paint Odor
Appearance	Semi-viscous liquid
Physical state	Liquid
pH (waterborne systems only)	Not Applicable
VOC* less exempt (lbs/gal)	0.9
VOC* as packaged (lbs/gal)	0.9

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



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***** SECTION 10 - Stability and Reactivity *****

Stability:

Stable

Incompatibility (materials to avoid):

water, alcohols, amines

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:

If heated above the flash point, 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

***** SECTION 11 - Toxicological Information *****

No Information Available

***** SECTION 12 - Ecological Information *****

No Information Available

***** SECTION 13 - Disposal Considerations *****

Waste disposal method:

Do not allow material to contaminate ground water systems. Incinerate or otherwise dispose of waste material in accordance with Federal, State, Provincial, and local requirements. Do not incinerate in closed containers.

***** SECTION 14 - Transportation Information *****

No Information Available

***** SECTION 15 - Regulatory Information *****

TSCA Status:

In compliance with TSCA Inventory requirements for commercial purposes.

DSL Status:

All components of the mixture are listed on the DSL.

Photochemical Reactivity: Photochemically reactive

Other Regulatory Information:

CAS #	Ingredient	EPCRA		CERCLA			
		302	TPQ/RQ	311/312	313	RQ(lbs)	HAP
28182-81-2	ALIPHATIC POLYISOCYANATE-	N	NR	A,C,R	N	NR	N



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***** SECTION 15 - Regulatory Information *****
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Product ID	Chemical Name	H	F	R	P	Y	TPQ	RQ
822-06-0	RESIN 1,6-HEXAMETHYLENE DIISOCYANATE	N	NR	C		Y	100	Y
123-86-4	BUTYL ACETATE	N	NR	A,C,F		N	NR	N
64742-95-6	AROMATIC HYDROCARBON	N	NR	A,C,F		N	NR	N
95-63-6	1,2,4-TRIMETHYL BENZENE	N	NR	A,C		Y	NR	N

Key:

EPCRA: Emergency Planning and Community Right-to-Know Act
(aka Title III, SARA)

302: Extremely hazardous substances

311/312 Categories: F = Fire Hazard A = Acute Hazard
R = Reactivity Hazard C = Chronic Hazard
P = Pressure Related Hazard

313 Information: Section 313 Supplier Notification - The chemicals listed above with a 'Y' in the 313 column are subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know act of 1986 and of 40 CFR 372.

CERCLA: Comprehensive Emergency Response, Compensation and Liability Act of 1980.

HAP = Listed as a Clean Air Act Hazardous Air Pollutant
TPQ = Threshold planning quantity
RQ = Reportable quantity
NA = not available
NR = not regulated

***** SECTION 16 - Additional Information *****

HMIS Rating: H: 2 F: 2 R: 1
NFPA Rating: H: F: R:

Glossary of Terms:

- ACGIH - American Conference of Governmental Industrial Hygienists
- IARC - International Agency for Research on Cancer
- NTP - National Toxicology Program
- OSHA - Occupational Safety and Health Administration
- STEL - Short term exposure limit
- TWA - Time-weighted average
- PNOR - Particles not otherwise regulated
- PNOC - Particles not otherwise classified

NOTICE FROM DUPONT

The data in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or any process.

MSDS prepared by:



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***** SECTION 16 - Additional Information *****
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Performance Coatings Regulatory Affairs Consultant.