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

Supplier: Axalta Coating Systems Canada Company
408 Fairall Street
Ajax, ON, L1S 1R6

Manufacturer: Axalta Coating Systems, LLC
1007 Market Street, D-13111
Wilmington, DE, 19898

Telephone: Product Information: (800) 387-2122
Medical Emergency (24 hours): (855) 274-5698
Transportation Emergency (24 hours): (613) 996-6666(CANUTEC)

PRODUCT IDENTIFIER: Low VOC Activator

PRODUCT CODE: 483-56 090922

Product Use:
PAINT ADDITIVE
Prepared by: Regulatory Affairs

Chemical Family: Not Available

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

CAS #	Ingredient	(%)	Exposure Limits**	
53880-05-0	ISOPHORONE DIISOCYANATE HOMOPOLYMER	15- 40	A O	None None
822-06-0	1,6-HEXAMETHYLENE DIISOCYANATE	0.1- 1.0	A O	5.0 ppb None
123-86-4	BUTYL ACETATE	7- 13	A A O	200.0 ppm 15 min STEL 150.0 ppm 150.0 ppm
79-20-9	METHYL ACETATE	0.5- 1.5	A A O	250.0 ppm 15 min STEL 200.0 ppm 200.0 ppm
28182-81-2	ALIPHATIC POLYISOCYANATE-RESIN	60-100	S A O	0.5 mg/m3 None None

****** SECTION 2 - Composition, Information on Ingredients ******
Cont'd

4098-71-9	ISOPHORONE DIISOCYANATE	0.1- 1.0	A	5.0 ppb	
				Skin	
			O		None

** A = ACGIH, O = OSHA, D = Dupont, TWAEV = Ontario, S = Supplier
D=Dupont Results obtained from E.I. duPont de Nemours and Company
(For additional definition of terms, see section 16)
Limits are 8-hour TWA unless otherwise specified.

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

Emergency Overview:
DANGER! EXPOSURE MAY CAUSE LUNG INJURY AND ALLERGIC RESPIRATORY REACTION. EFFECTS MAY BE PERMANENT. FLAMMABLE 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:

ISOPHORONE DIISOCYANATE HOMOPOLYMER
May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath.
Overexposure may cause asthma-like reactions with shortness of

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

breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure.
Repeated and prolonged overexposure may cause delayed effects involving the respiratory system.
Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent.
Overexposure may cause damage to any of the following organs/systems: lungs skin
The following medical conditions may be aggravated by overexposure: asthma eye disease eczema skin disorders respiratory disorders

1,6-HEXAMETHYLENE DIISOCYANATE
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
Overexposure may cause damage to any of the following organs/systems: lungs skin
Potential skin sensitizer that may cause allergic reactions and contact dermatitis resulting in severe irritation, dryness, and cracking of the 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.

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.

ISOPHORONE DIISOCYANATE
Overexposure may cause damage to any of the following

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

organs/systems: lungs skin
The following medical conditions may be aggravated by overexposure:
asthma eczema skin disorders respiratory disorders

****** 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 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)	Between 24 to 38 deg C	Closed Cup
Approx. flammable limits	Not Available	
Auto ignition temperature	Not Available	

Hazardous Combustion Products:
CO, C02, smoke, and oxides of any heavy metals that are reported in "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:
Flammable liquid. Vapor/air mixture will burn when an ignition source is present.

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

Procedures for cleaning up spills or leaks:
Ventilate area. 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

****** SECTION 6 - Accidental Release Measures ****** Cont'd

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 C02 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, sparks, flame, static discharge and other sources of ignition. VAPORS MAY CAUSE FLASH FIRE. Close container after each use. Ground containers when pouring. Do not transfer contents to bottles or unlabeled containers. Wash thoroughly after handling and before eating or smoking. Do not store above 120 deg F.

OSHA/NFPA Storage Classification: IC

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 contaminants below applicable exposure limits.

Personal Protective Equipment:

Recommended PPE:

Respiratory:
Do not breathe vapors or mists. Wear a positive-pressure, supplied air respirator (NIOSH approved TC-19C), while mixing activator with paint, during application and until all vapors and spray mists are exhausted. Follow respirator manufacturer s directions for respirator use. Do not permit anyone without protection in the painting area. Refer to the hardener/activator label instructions for further information. Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed to this product if mixed with isocyanate activators/hardeners.

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	171.30 mmHg @ 68 Deg F
Solubility of solvent in water	NIL
Vapour density (principal solvent)	2.60
Approx. Boiling range (deg C)	127 DEG (C)
Approx. Freezing range (deg C)	-37 DEG (C)
Gallon weight (lbs/US gal)	9.36
Specific gravity	1.12
Percent volatile by volume	12.96
Percent volatile by weight	10.86
Percent solids by volume	87.04
Percent solids by weight	89.15
Odour	Characteristic Paint Odour
Appearance	semi-viscous liquid
Physical state	Liquid
pH (waterborne systems only)	Not Applicable
VOC* less exempt (g/l)	107.1
VOC* as packaged (g/l)	105.2

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

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

Stability:
Stable
Incompatibility (materials to avoid):
water, alcohols, amines
Hazardous decomposition products:
CO, C02, 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:
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 ******

ISOPHORONE DIISOCYANATE HOMOPOLYMER

Oral LD50	20000 mg/kg		Rat	SUPPLIER MSDS

1,6-HEXAMETHYLENE DIISOCYANATE

Oral LD50	350 mg/kg		Mouse	RTECS
Dermal LD50	570 mg/kg		Rabbit	SUPPLIER MSDS
Inhalation LC50	124 mg/m3	4 h	Rat	RTECS

****** SECTION 11 - Toxicological Information ******
Cont'd

BUTYL ACETATE				
Oral LD50	5000 ml/kg		Rat	SUPPLIER MSDS
Dermal LD50	5000 ml/kg		Rabbit	SUPPLIER MSDS
Inhalation LC50	6335 ppm	4 h	Rat	SUPPLIER MSDS
METHYL ACETATE				
Oral LD50	5000 mg/kg		Rat	SUPPLIER MSDS
Dermal LD50	5000 mg/kg		Rabbit	SUPPLIER MSDS
Inhalation LC50	16000 ppm	4 h	Rat	SUPPLIER MSDS
ALIPHATIC POLYISOCYANATE RESIN				
Oral LD50	1000 mg/kg		Rat	SUPPLIER MSDS
Dermal LD50	5000 mg/kg		Rabbit	SUPPLIER MSDS
Inhalation LC50	137 mg/m3	4 h	Rat	SUPPLIER MSDS
ISOPHORONE DIISOCYANATE				
Oral LD50	4825 mg/kg		Rat	SUPPLIER MSDS
Dermal LD50	7000 mg/kg		Rat	SUPPLIER MSDS

For all other ingredients, no information is available.

Key:
- RTECHS - Registry of Toxic Effects of Chemical Substances
- CCOHS - Canadian Center for Occupational Health and Safety
- Patty's - Patty's Industrial Hygiene and Toxicology, 3rd Edition

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

1,6-HEXAMETHYLENE DIISOCYANATE			
82 mg/l	96 h	zebra fish	FISH
89 mg/l	48 h	Wasserfloh (cerio	INVERTEBRATES
BUTYL ACETATE			
100 mg/l	4 days	Bluegill Sunfish	FISH
18 mg/l	4 days	Fathead Minnow	FISH
73 mg/l	2 days	Daphnia	INVERTEBRATES
METHYL ACETATE			
320 mg/l	4 days	Fathead Minnow	FISH
ALIPHATIC POLYISOCYANATE RESIN			
1000 mg/l	3 h		BACTERIA
1000 mg/l	72 h		AQUATIC PLANTS
ISOPHORONE DIISOCYANATE			
48 h	27 mg/l	Daphnia	AQUATIC PLANTS

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

Provincial Waste Classification:
Check appropriate provincial and local waste disposal regulations for proper classifications.

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. Use only approved waste management contractors. Do not incinerate in closed containers.

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

TDG Shipping Name:
PAINT RELATED MATERIAL
Hazard Class: 3
UN/NA# 1263
Packing Group: III

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

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

TSCA Status:
In compliance with TSCA Inventory requirements for commercial purposes.
DSL Status:
All components of the mixture are listed on the DSL.
OCI:
All components of the mixture are listed with the Ontario Inventory.
WHMIS Classification:

Class	B	Division 2			
Class	D	Division 1	Subdivision	A	
Class	D	Division 2	Subdivision	A	56
Class	D	Division 2	Subdivision	B	60
Class	D	Division 2	Subdivision	B	61

WHMIS symbols:
Flame
Skull and Crossbones

Photochemical Reactivity: Non-photochemically reactive

Other Regulatory Information:

CAS #	Ingredient	302	TPQ/RQ	EPCRA 311/312	313	CERCLA RQ(lbs)	HAP
53880-05-0	ISOPHORONE DIISOCYANATE H OMOPOLYMER	N	NR	A,C,F	N	NR	N

****** SECTION 15 - Regulatory Information ******
Cont'd

822-06-0	1,6-HEXAMETHYLENE DIISOCYANATE	N	NR	C	Y	100	Y
123-86-4	BUTYL ACETATE	N	NR	A,C,F	N	NR	N
79-20-9	METHYL ACETATE	N	NR	A,C	N	100	N
28182-81-2	ALIPHATIC POLYISOCYANATE-RESIN	N	NR	A,C,R	N	NR	N
4098-71-9	ISOPHORONE DIISOCYANATE	Y	500	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: 3 R: 1

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 Axalta Coating Systems
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.

Approved by:
Technical Manager