



Revision Date: 29-Nov-2016

Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Product Code Alternate Product Code Product Class Color Recommended use Restrictions on use

FAST DRY POLYAMIDE EPOXY CATALYST

V410-90FR A41090 CATALYST Clear Industrial paint No information available

Manufactured For

Benjamin Moore & Co., Limited 8775 Keele Street Concord ON L4K 2N1 Phone: 1-800-361-5898 corotechcoatings.ca

Manufacturer

Benjamin Moore & Co. 101 Paragon Drive Montvale, NJ 07645 Phone: 800-225-5554 corotechcoatings.com Emergency Telephone Number(s) CANUTEC: 613-996-6666

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the Hazardous Products Regulations (HPR: SOR/2015-17)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Respiratory sensitization	Category 1
Skin sensitization	Category 1
Carcinogenicity	Category 1A
Reproductive toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1
Aspiration toxicity	Category 1
Flammable liquids	Category 3

Label elements

Odor solvent

Danger

Hazard statements

Causes skin irritation Causes serious eye irritation May cause allergy or asthma symptoms or breathing difficulties if inhaled May cause an allergic skin reaction May cause cancer Suspected of damaging fertility or the unborn child May cause respiratory irritation Causes damage to organs through prolonged or repeated exposure May be fatal if swallowed and enters airways Flammable liquid and vapor



Appearance liquid

Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling In case of inadequate ventilation wear respiratory protection Contaminated work clothing should not be allowed out of the workplace Do not breathe dust/fume/mist/vapors/sprav Do not eat, drink or smoke when using this product Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces, no smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ventilating/lighting/equipment Use only non-sparking tools Take precautionary measures against static discharge Keep cool Wear protective gloves/protective clothing/eye protection/face protection **Precautionary Statements - Response**

If exposed or concerned get medical attention

Eyes

If in eyes rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists get medical attention

Skin

If skin irritation or rash occurs get medical attention

If on skin (or hair) take off immediately all contaminated clothing. Rinse skin with water

Wash contaminated clothing before reuse

Inhalation

If experiencing respiratory symptoms: Call a POISON CENTER or physician

If inhaled remove victim to fresh air and keep at rest in a position comfortable for breathing **Ingestion**

If swallowed immediately call a POISON CENTER or physician Do NOT induce vomiting **Fire** In case of fire use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage Store locked up Store in a well-ventilated place. Keep container tightly closed

Precautionary Statements - Disposal Dispose of contents/container to an approved waste disposal plant

Other information

No information available

Other hazards

IMPORTANT: Designed to be mixed with other components. Mixture will have hazards of all components. Before opening packages, read all warning labels. Follow all precautions.

3. COMPOSITION INFORMATION ON COMPONENTS

Chemical Name	CAS-No	Weight % (max)
Limestone	1317-65-3	15 - 40%
Talc	14807-96-6	10 - 30%
Polyamine adduct	UH0550-00-1	7 - 13%
Xylene	1330-20-7	5 - 10%
Benzyl alcohol	100-51-6	5 - 10%
Silica, mica	12001-26-2	5 - 10%
Solvent naphtha, petroleum, light aromatic	64742-95-6	1 - 5%
Ethyl benzene	100-41-4	1 - 5%
1,2,4-Trimethylbenzene	95-63-6	1 - 5%
Isophoronediamine	2855-13-2	1 - 5%
Phenol, 2,4,6-tris[(dimethylamino)methyl]-	90-72-2	1 - 5%
Amine-Epoxy Resin Adduct	UH0290-00-1	1 - 5%
Silica, crystalline	14808-60-7	0.5 - 1%
Triethylenetetramine	112-24-3	0.5 - 1%
Nonylphenol	84852-15-3	0.5 - 1%
Bis[(dimethylamino)methyl] phenol	71074-89-0	0.1 - 0.25%

4. FIRST AID MEASURES

General AdviceImmediate medical attention is required. Show this safety
data sheet to the doctor in attendance.Eye ContactImmediately flush with plenty of water. After initial flushing,
remove any contact lenses and continue flushing for at
least 15 minutes. Keep eye wide open while rinsing. If
symptoms persist, call a physician.Skin ContactWash off immediately with soap and plenty of water
removing all contaminated clothes and shoes. If skin
irritation persists, call a physician. For severe burns,
immediate medical attention is required. Wash clothing
before reuse. Destroy contaminated articles such as

shoes.

Inhalation	Move to fresh air. Call a physician or Poison Control Center immediately. Administer oxygen if breathing is difficult. If not breathing, give artificial respiration. Asthmatic symptoms may be immediate or delayed. Extreme asthmatic reactions can be life threatening.
Ingestion	Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician.
Protection Of First-Aiders	Use personal protective equipment.
Most Important Symptoms/Effects	May cause allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Notes To Physician	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Vapors may travel considerable distance to a source of ignition and flash back. Vapors may cause flash fire.	
Suitable Extinguishing Media	Foam, dry powder or water. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.	
Protective Equipment And Precautions For Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.	
Hazardous Combustion Products	Burning may result in carbon dioxide, carbon monoxide and other combustion products of varying composition which may be toxic and/or irritating.	
Specific Hazards Arising From The Chemical	Flammable. Flash back possible over considerable distance. Keep product and empty container away from heat and sources of ignition. Closed containers may rupture if exposed to fire or extreme heat. Thermal decomposition can lead to release of irritating gases and vapors.	
Sensitivity To Mechanical Impact	No	
Sensitivity To Static Discharge	Yes	
Flash Point Data Flash Point (°F) Flash Point (°C) Flash Point Method	80 27 PMCC	
Flammability Limits In Air		
Lower Explosion Limit Upper Explosion Limit	Not available Not available	
NFPA Health: 2 Flammability: 3 Ins	stability: 0 Special: Not Applicable	

NFPA Legend

- 0 Not Hazardous
- 1 Slightly
- 2 Moderate
- 3 High
- 4 Severe

The ratings assigned are only suggested ratings, the contractor/employer has ultimate responsibilities for NFPA ratings where this system is used.

Additional information regarding the NFPA rating system is available from the National Fire Protection Agency (NFPA) at www.nfpa.org.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Remove all sources of ignition. Take precautions to prevent flashback. Ground and bond all containers and handling equipment. Take precautionary measures against static discharges. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Use personal protective equipment.
Other Information	Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.
Environmental Precautions	See Section 12 for additional Ecological Information.
Methods For Clean-Up	Dam up. Soak up with inert absorbent material. Use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not breathe vapors or spray mist. Use only in ventilated areas. Prevent vapor build-up by providing adequate ventilation during and after use.
	Take precautionary measures against static discharges. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and flame. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Ignition and/or flash back may occur.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep away from open flames, hot surfaces and sources of ignition. Keep in properly labeled containers. Keep out of the reach of children.
Incompatible Materials	Incompatible with strong acids and bases and strong oxidizing agents.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits

No exposure limits have been established for this product.

Chemical Name	ACGIH	Alberta	British Columbia	Ontario	Quebec
Limestone	N/E	10 mg/m³ - TWA	10 mg/m ³ - TWA	N/E	10 mg/m ³ - TWAEV
			3 mg/m ³ - TWA		
			20 mg/m ³ - STEL		
Talc	2 mg/m ³ - TWA	2 mg/m³ - TWA	2 mg/m ³ - TWA	2 mg/m³ - TWA	3 mg/m ³ - TWAEV
Xylene	100 ppm - TWA	100 ppm - TWA	100 ppm - TWA	100 ppm - TWA	100 ppm - TWAEV
	150 ppm - STEL	434 mg/m³ - TWA	150 ppm - STEL	150 ppm - STEL	434 mg/m ³ - TWAEV
		150 ppm - STEL			150 ppm - STEV
		651 mg/m ³ - STEL			651 mg/m ³ - STEV
Silica, mica	3 mg/m ³ - TWA	3 mg/m³ - TWA	3 mg/m ³ - TWA	3 mg/m³ - TWA	3 mg/m ³ - TWAEV
Ethyl benzene	20 ppm - TWA	100 ppm - TWA	20 ppm - TWA	20 ppm - TWA	100 ppm - TWAEV
		434 mg/m³ - TWA			434 mg/m ³ - TWAEV
		125 ppm - STEL			125 ppm - STEV
		543 mg/m ³ - STEL			543 mg/m ³ - STEV
Silica, crystalline	0.025 mg/m ³ - TWA	0.025 mg/m ³ - TWA	0.025 mg/m ³ - TWA	0.10 mg/m³ - TWA	0.1 mg/m ³ - TWAEV
Triethylenetetramine	N/E	N/E	N/E	0.5 ppm - TWA	N/E
				3 mg/m ³ - TWA	
				Danger of cutaneous	
				absorption	

Legend

ACGIH - American Conference of Governmental Industrial Hygienists Alberta - Alberta Occupational Exposure Limits British Columbia - British Columbia Occupational Exposure Limits Ontario - Ontario Occupational Exposure Limits Quebec - Quebec Occupational Exposure Limits N/E - Not established

Engineering Measures

Personal Protective Equipment Eye/Face Protection

Skin Protection Respiratory Protection Ensure adequate ventilation, especially in confined areas.

Tightly fitting safety goggles If splashes are likely to occur, wear: Face-shield

Impervious clothing. Impervious gloves.

Use only with adequate ventilation. Wear a NIOSH approved positive-pressure supplied-air respirator with full facepiece that has been selected by a technically qualified person for the specific work conditions.

Hygiene Measures

Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Wash thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Odor Odor Threshold Density (Ibs/gal) Specific Gravity pH Viscosity (cps) Solubility Water Solubility Evaporation Rate Vapor Pressure Vapor Density liquid solvent No information available No information available 1.49 - 1.51 No information available No information available

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Wt. % Solids	80 - 90
Vol. % Solids	65 - 75
Wt. % Volatiles	10 - 20
Vol. % Volatiles	25 - 35
VOC Regulatory Limit (g/L)	<250
Boiling Point (°F)	212
Boiling Point (°C)	100
Freezing Point (°F)	No information available
Freezing Point (°C)	No information available
Flash Point (°F)	80
Flash Point (°C)	27
Flash Point Method	PMCC
Flammability (solid, gas)	Not applicable
Upper Explosion Limit	Not applicable
Lower Explosion Limit	Not applicable
Autoignition Temperature (°F)	No information available
Autoignition Temperature (°C)	No information available
Decomposition Temperature (°F)	No information available
Decomposition Temperature (°C)	No information available
Partition Coefficient (n-octanol/water)	No information available

10. STABILITY AND REACTIVITY

Reactivity	Not Applicable
Chemical Stability	Stable under normal conditions. Hazardous polymerisation does not occur.
Conditions To Avoid	Keep away from open flames, hot surfaces, static electricity and sources of ignition. Sparks. Elevated temperature.
Incompatible Materials	Incompatible with strong acids and bases and strong oxidizing agents.
Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating gases and vapors.
Possibility Of Hazardous Reactions	None under normal conditions of use.

11. TOXICOLOGICAL INFORMATION

Product Information Information on likely routes of exposure	
Principal Routes of Exposure	Eye contact, skin contact and inhalation.
<u>Acute Toxicity</u> Product Information	Repeated or prolonged exposure to organic solvents may lead to permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling vapors may be harmful or fatal.
Information on toxicological effects	
Symptoms	No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Eye contact Skin contact Inhalation	Contact with eyes may cause irritation. Causes burns. Harmful in contact with skin. Harmful by inhalation. High vapor / aerosol concentrations are irritating to the eyes, nose, throat and lungs and may cause headaches, dizziness, drowsiness, unconsciousness, and other central nervous system effects. Causes respiratory tract irritation. May cause sensitization of susceptible persons. Harmful if swallowed. Can burn mouth, throat, and
Sensitization:	stomach. May cause an allergic skin reaction. Respiratory sensitizer. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Neurological Effects	No information available.
Mutagenic Effects	No information available.
Reproductive Effects	Possible risk of impaired fertility. Possible risk of harm to
	the unborn child.
Developmental Effects	No information available.
Target Organ Effects	No information available.
STOT - single exposure	May cause disorder and damage to the. Respiratory system.
STOT - repeated exposure	Causes damage to organs through prolonged or repeated exposure if inhaled. Contains: Crystalline Silica which has been determined to be carcinogenic to humans by IARC (1) when in respirable form. Risk of cancer depends on duration and level of inhalation exposure to spray mist or dust from sanding the dried paint. Central nervous system (CNS). Causes damage to organs through prolonged or repeated exposure.
Other adverse effects Aspiration Hazard	No information available. May be harmful if swallowed and enters airways. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.

Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	5268 mg/kg
ATEmix (dermal)	4417 mg/kg
ATEmix (inhalation-dust/mist)	7.3 mg/L

Component

Xylene LD50 Oral: 4300 mg/kg (Rat) LD50 Dermal: > 1700 mg/kg (Rabbit) LC50 Inhalation (Vapor): 5000 ppm (Rat, 4 hr.) Benzyl alcohol LD50 Oral: 1230-1660 mg/kg (Rat) LD50 Dermal: 2,000 mg/kg (Rabbit) LC50 Inhalation (Vapor): > 5,000 mg/m³ (Rat) Silica, mica LD50 Oral: > 16000 mg/kg (Rat)

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Solvent naphtha, petroleum, light aromatic LD50 Oral: 8400 mg/kg (Rat) Ethyl benzene LD50 Oral: mg/kg (Rat) LD50 Dermal: > mg/kg (Rabbit) LC50 Inhalation (Vapor): mg/m³ (Rat, 2 hr.) 1.2.4-Trimethylbenzene LD50 Oral: 5000 mg/kg (Rat) LC50 Inhalation (Vapor): 18000 mg/m³ (Rat, 4 hr.) Phenol, 2,4,6-tris[(dimethylamino)methyl]-LD50 Oral: 1200 mg/kg (Rat) LD50 Dermal: 1280 mg/kg (Rat) Silica, crystalline LD50 Oral: 500 mg/kg (Rat) Triethylenetetramine LD50 Oral: 2500 mg/kg (Rat) LD50 Dermal: 805 mg/kg (Rabbit) Nonvlphenol LD50 Oral: 1300 mg/kg (Rat)

Chronic Toxicity

Carcinogenicity

The information below indicates whether each agency has listed any ingredient as a carcinogen:.

Chemical Name	IARC	NTP
	2B - Possible Human Carcinogen	
Ethyl benzene		
	1 - Human Carcinogen	Known Human Carcinogen
Silica, crystalline	_	

• Crystalline Silica has been determined to be carcinogenic to humans by IARC (1) when in respirable form. Risk of cancer depends on duration and level of inhalation exposure to spray mist or dust from sanding the dried paint.

Legend

IARC - International Agency for Research on Cancer NTP - National Toxicity Program OSHA - Occupational Safety & Health Administration

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects

The environmental impact of this product has not been fully investigated.

Product Information

Acute Toxicity to Fish

No information available

Acute Toxicity to Aquatic Invertebrates

No information available

Acute Toxicity to Aquatic Plants

No information available

Persistence / Degradability

No information available.

Bioaccumulation / Accumulation No information available.

Mobility in Environmental Media No information available.

Ozone No information available

Component

Acute Toxicity to Fish

Xylene LC50: 13.5 mg/L (Rainbow Trout - 96 hr.) Ethyl benzene LC50: 12.1 mg/L (Fathead Minnow - 96 hr.)

Acute Toxicity to Aquatic Invertebrates

Ethyl benzene EC50: 1.8 mg/L (Daphnia magna - 48 hr.)

Acute Toxicity to Aquatic Plants

Ethyl benzene EC50: 4.6 mg/L (Green algae (Scenedesmus subspicatus), 72 hrs.)

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

Should not be released into the environment Dispose of in accordance with federal, state, provincial, and local regulations. Local requirements may vary, consult your sanitation department or state-designated environmental protection agency for more disposal options.

Empty Container Warning

TDG

Emptied containers may retain product residue. Follow label warnings even after container is emptied. Residual vapors may explode on ignition.

14. TRANSPORT INFORMATION

3 UN1263 III UN1263, Paint, 3, III
Contact the preparer for further information.
Contact the preparer for further information.

15. REGULATORY INFORMATION

International Inventories

TSCA: United States	Yes - All components are listed or exempt.
DSL: Canada	Yes - All components are listed or exempt.

National Pollutant Release Inventory (NPRI)

NPRI Parts 1-4

This product contains the following Parts 1-4 NPRI chemicals:

Chemical Name	CAS-No	Weight % (max)	NPRI Parts 1-4
Xylene	1330-20-7	5 - 10%	Listed
Benzyl alcohol	100-51-6	5 - 10%	Listed
Ethyl benzene	100-41-4	1 - 5%	Listed
1,2,4-Trimethylbenzene	95-63-6	1 - 5%	Listed
Nonylphenol	84852-15-3	0.5 - 1%	Listed

NPRI Part 5

This product contains the following NPRI Part 5 Chemicals:

<u>Chemical Name</u> Xylene	<u>CAS-No</u> 1330-20-7	<u>Weight % (max)</u> 5 - 10%	<u>NPRI Part 5</u> Listed
Solvent naphtha, petroleum, light	64742-95-6	1 - 5%	Listed
aromatic 1,2,4-Trimethylbenzene	95-63-6	1 - 5%	Listed

WHMIS Regulatory Status

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

16. OTHER INFORMATION				
HMIS -	Health: 2*	Flammability: 3	Reactivity: 0	PPE: -
HMIS Lege	end	-	•	
0 - Minimal I				
1 - Slight Ha	zard			
2 - Moderate	e Hazard			
3 - Serious H	Hazard			
4 - Severe ⊢	lazard			
* - Chronic	Hazard			
X - Consult	your supervisor or S.	O.P. for "Special" handling	instructions.	
	E rating has intentional r the actual normal cond		propriate PPE that will prop	tect employees from the hazards the material will

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer, has chosen to provide them. HMIS® ratings are to be used only in conjunction with a fully implemented HMIS® program by workers who have received appropriate HMIS® training. HMIS® is a registered trade and service mark of the NPCA. HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN.

PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by logging onto Health Canada @

http://www.hc-sc.gc.ca/ewh-semt/contaminants/lead-plomb/asked_questions-questions_posees-eng.php.

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Revision Date:	29-Nov-2016
Reason For Revision	Not available

Disclaimer

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END OF SAFETY DATA SHEET