



Revision Date: 14-Oct-2016 Revision Number: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name EPOXY MASTIC CATALYST

Product Code V160-90FR

Alternate Product Code A16090
Product Class CATALYST

Color All

Recommended use CATALYST
Restrictions on use 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 2A
Skin sensitization	Category 1
Carcinogenicity	Category 1A
Specific target organ toxicity (repeated exposure)	Category 1
Flammable liquids	Category 3

Label elements

Danger			
Hazard statements			

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Causes skin irritation

Causes serious eve irritation

May cause an allergic skin reaction

May cause cancer

Causes damage to organs through prolonged or repeated exposure

Flammable liquid and vapor



Appearance liquid Odor solvent

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

Contaminated work clothing should not be allowed out of the workplace

Do not breathe dust/fume/mist/vapors/spray

Do not eat, drink or smoke when using this product

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

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

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 cool

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)
4,4-isopropylidenediphenol-epichlorohydrin	25068-38-6	30 - 60%
copolymer		
Silica, crystalline	14808-60-7	10 - 30%
Propylene glycol monomethyl ether	107-98-2	3 - 7%
Solvent naphtha, petroleum, light aromatic	64742-95-6	1 - 5%
Xylene	1330-20-7	1 - 5%
1,2,4-Trimethylbenzene	95-63-6	1 - 5%
Ethyl benzene	100-41-4	0.5 - 1%
Aluminum oxide	1344-28-1	0.1 - 0.25%

4. FIRST AID MEASURES

General Advice If symptoms persist, call a physician. Show this safety data

sheet to the doctor in attendance.

Eye Contact Immediately 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

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symptoms persist, call a physician.

Skin Contact Wash off immediately with soap and plenty of water

removing all contaminated clothes and shoes. If skin irritation persists, call a physician. Wash clothing before reuse. Destroy contaminated articles such as shoes.

Inhalation Move to fresh air. If symptoms persist, call a physician.

If not breathing, give artificial respiration. Call a physician

immediately.

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.

Notes To Physician Treat symptomatically.

Firefighters

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 As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear.

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Hazardous Combustion Products

Burning may result in carbon dioxide, carbon monoxide and other combustion products of varying composition

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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) 80 Flash Point (°C) 27 **PMCC Flash Point Method**

Flammability Limits In Air

Not available **Lower Explosion Limit Upper Explosion Limit** Not available

NFPA Health: 1 Flammability: 3 Instability: 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.

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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
Silica, crystalline	0.025 mg/m ³ - TWA	0.025 mg/m ³ - TWA	0.025 mg/m ³ - TWA	0.10 mg/m ³ - TWA	0.1 mg/m ³ - TWAEV
Propylene glycol monomethyl ether	50 ppm - TWA 100 ppm - STEL	100 ppm - TWA 369 mg/m³ - TWA 150 ppm - STEL	50 ppm - TWA 75 ppm - STEL	50 ppm - TWA 100 ppm - STEL	100 ppm - TWAEV 369 mg/m³ - TWAEV 150 ppm - STEV
		553 mg/m³ - STEL		100 77111	553 mg/m³ - STEV
Xylene	100 ppm - TWA 150 ppm - STEL	100 ppm - TWA 434 mg/m³ - TWA 150 ppm - STEL 651 mg/m³ - STEL	100 ppm - TWA 150 ppm - STEL	100 ppm - TWA 150 ppm - STEL	100 ppm - TWAEV 434 mg/m³ - TWAEV 150 ppm - STEV 651 mg/m³ - STEV
Ethyl benzene	20 ppm - TWA	100 ppm - TWA 434 mg/m³ - TWA 125 ppm - STEL 543 mg/m³ - STEL	20 ppm - TWA	20 ppm - TWA	100 ppm - TWAEV 434 mg/m³ - TWAEV 125 ppm - STEV 543 mg/m³ - STEV
Aluminum oxide	1 mg/m³ - TWA	10 mg/m ³ - TWA	1.0 mg/m ³ - TWA	1 mg/m³ - TWA	10 mg/m³ - TWAEV

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

Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment
Eye/Face Protection
Skin Protection
Respiratory Protection

Safety glasses with side-shields.
Protective gloves and impervious clothing.
Use only with adequate ventilation. In operations where exposure limits are exceeded, use a NIOSH approved

respirator that has been selected by a technically qualified person for the specific work conditions. When spraying the product or applying in confined areas, wear a NIOSH approved respirator specified for paint spray or organic

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vapors.

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 liquid Odor solvent

Odor Threshold No information available

 Density (lbs/gal)
 10.4 - 10.5

 Specific Gravity
 1.24 - 1.26

pHNo information availableViscosity (cps)No information availableSolubilityNo information availableWater SolubilityNo information availableEvaporation RateNo information availableVapor PressureNo information availableVapor DensityNo information available

 Wt. % Solids
 80 - 90

 Vol. % Solids
 75 - 85

 Wt. % Volatiles
 10 - 20

 Vol. % Volatiles
 15 - 25

 VOC Regulatory Limit (g/L)
 <250</td>

 Boiling Point (°F)
 248

 Boiling Point (°C)
 120

Freezing Point (°F)

No information available

No information available

Flash Point (°F) 80
Flash Point (°C) 27
Flash Point Method PMCC
Flammability (solid, gas) Not ap

Flammability (solid, gas)
Upper Explosion Limit
Not applicable
Not applicable
Not applicable

Autoignition Temperature (°F)No information availableAutoignition Temperature (°C)No information availableDecomposition Temperature (°F)No information availableDecomposition Temperature (°C)No information availablePartition 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

Other adverse effects

Information on likely routes of exposure

Principal Routes of Exposure Eye contact, skin contact and inhalation.

Acute Toxicity

Product Information Repeated or prolonged exposure to organic solvents may

lead to permanent brain and nervous system damage.

Intentional misuse by deliberately concentrating and

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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 contactContact with eyes may cause irritation.

Skin contact May cause skin irritation and/or dermatitis. Prolonged skin

contact may defat the skin and produce dermatitis.

Inhalation 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.

Ingestion Harmful if swallowed. Ingestion may cause irritation to

mucous membranes. 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.

Sensitization: May cause an allergic skin reaction.

Neurological EffectsNo information available.Mutagenic EffectsNo information available.Reproductive EffectsNo information available.Developmental EffectsNo information available.Target Organ EffectsNo 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. Causes damage to organs through prolonged or repeated exposure.

No information available.

Aspiration Hazard

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.

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Numerical measures of toxicity

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

ATEmix (oral) 2123 mg/kg
ATEmix (dermal) 18673 mg/kg
ATEmix (inhalation-dust/mist) 31.8 mg/L
ATEmix (inhalation-vapor) 630.4 mg/L

Component

4,4-isopropylidenediphenol-epichlorohydrin copolymer

LD50 Oral: mg/kg (Rat)

Silica, crystalline

LD50 Oral: 500 mg/kg (Rat)
Propylene glycol monomethyl ether
LD50 Oral: 6,600 mg/kg (Rat)
LD50 Dermal: 13,000 mg/kg (Rabbit)
LC50 Inhalation (Vapor): 10,000 ppm (Rat)
Solvent naphtha, petroleum, light aromatic

LD50 Oral: 8400 mg/kg (Rat)

Xylene

LD50 Oral: 4300 mg/kg (Rat)

LD50 Dermal: > 1700 mg/kg (Rabbit)

LC50 Inhalation (Vapor): 5000 ppm (Rat, 4 hr.)

1,2,4-Trimethylbenzene LD50 Oral: 5000 mg/kg (Rat)

LC50 Inhalation (Vapor): 18000 mg/m³ (Rat, 4 hr.)

Ethyl benzene

LD50 Oral: mg/kg (Rat)

LD50 Dermal: > mg/kg (Rabbit)

LC50 Inhalation (Vapor): mg/m³ (Rat, 2 hr.)

Chronic Toxicity

Carcinogenicity

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

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

• 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.

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IARC - International Agency for Research on Cancer

NTP - National Toxicity Program

OSHA - Occupational Safety & Health Administration

12. ECOLOGICAL INFORMATION

Ecotoxicity Effects

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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

4,4-isopropylidenediphenol-epichlorohydrin copolymer

LC50: 1.5 mg/L (Rainbow Trout - 96 hr.)

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

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

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

vapors may explode on ignition.

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14. TRANSPORT INFORMATION

TDG

Proper Shipping NamePaintHazard Class3UN-NoUN1263Packing GroupIII

Description UN1263, Paint, , 3, III

ICAO / IATA Contact the preparer for further information.

IMDG / IMOContact the preparer for further information.

15. REGULATORY INFORMATION

International Inventories

TSCA: United States DSL: CanadaYes - All components are listed or exempt.
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
Propylene glycol monomethyl ether	107-98-2	3 - 7%	Listed
Xylene	1330-20-7	1 - 5%	Listed
1,2,4-Trimethylbenzene	95-63-6	1 - 5%	Listed
Ethyl benzene	100-41-4	0.5 - 1%	Listed
Aluminum oxide	1344-28-1	0.1 - 0.25%	Listed

NPRI Part 5

This product contains the following NPRI Part 5 Chemicals:

Chemical Name	CAS-No	Weight % (max)	NPRI Part 5
Solvent naphtha, petroleum, light	64742-95-6	1 - 5%	Listed
aromatic			
Xylene	1330-20-7	1 - 5%	Listed
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: 1* Flammability: 3 Reactivity: 0 PPE: -

HMIS Legend

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- 0 Minimal Hazard
- 1 Slight Hazard
- 2 Moderate Hazard
- 3 Serious Hazard
- 4 Severe Hazard
- ' Chronic Hazard
- X Consult your supervisor or S.O.P. for "Special" handling instructions.

Note: The PPE rating has intentionally been left blank. Choose appropriate PPE that will protect employees from the hazards the material will present under the actual normal conditions of use.

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.

Prepared By Product Stewardship Department

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855-724-6802

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Reason For Revision Not available

Disclaimer

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END OF SAFETY DATA SHEET