

920673

MOMENTIVE SPECIALTY CHEMICALS INC. 180 E BROAD STREET COLUMBUS OH 43215-3799 USA

#### **CERTIFICATE OF ANALYSIS**

CMC COLORADO 34775 UNITED AVE PUEBLO CO 81001 USA

Date	01/16/2014
Purchase order item	SAMPLE PER SCOTT BAS
Purchase order date	01/14/2014
Delivery item Delivery date	85219923 000010 01/21/2014
Order item	3358235 000010
Order date	01/14/2014
Customer number	61002
Shipping date	01/16/2014

Certified that the whole of the supplies detailed hereon have been inspected and tested and, unless otherwise stated, conform in all respects with the contract/purchase order requirements.

Material:

920673 MGSRIMR035c EPIKOTE(TM) Resin MGS RIMR 035C

Vehicle/Vessel: FEDEX FREIGHT
Batch LL4A0077 / Quantity 480 LB
Manufactured date 01/15/2014

Characteristic		Unit	Value	Lower Limit	Upper Limit	Test Method
Refractive index			2	2	2	ASTM D1218
Viscosity 25°C		mPa·s	1300	1100	1500	ASTM D2196
Density 25°C		g/cm3	1	1	1	ASTM D1475
Weight per Epoxide		g/eq	189	182	198	ASTM D1652
DSC Onset (TG1)		°C		75	-	ASTM D3418
DSC Midpoint (TG2)	•	°C		80	-	ASTM D3418
DSC End (TG3)		°C		85	-	ASTM D3418
Gel time 38°C		min	188	150	250	LM-083

Momentive Specialty Chemicals Inc. certifies that this product will meet the specification listed above.

If you have any questions regarding this certification or delivery, please call your customer service representative at 866-443-9466.

Lori Babineaux, Quality Manager

This document is computer generated and therefore requires no signature.

\*\*\* End \*\*\*



## Material Safety Data Sheet

FOR INDUSTRIAL USE ONLY

# EPIKOTE<sup>™</sup> Resin MGS RIMR 035C

Revision Date 05-SEP-2012

### 1. Product and company identification

**Product name** 

EPIKOTE™ Resin MGS RIMR 035C

**MSDS Number** 

BAK0000399

Product use

Binder

Manufacturer, importer,

Supplier

**Print date** 

16-JAN-2014

Telephone

For additional health and safety or regulatory information, call

#### 2. Hazards identification

**Form** 

Liquid

Odor

characteristic.

**OSHA/HCS status** 

This material is considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200).

**Emergency overview** 

WARNING!

CAUSES EYE AND SKIN IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE RESPIRATORY TRACT IRRITATION. CONTAINS MATERIAL THAT CAN CAUSE TARGET ORGAN

DAMAGE.

Potential acute health effects

Inhalation

Slightly irritating to the respiratory system.

Ingestion

Not expected to be harmful under normal conditions of use.

Skin

Irritating to skin. May cause sensitization by skin contact.

Eyes

Irritating to eyes.

Potential chronic health effects

**Chronic effects** 

Contains material that can cause target organ damage.

Carcinogenicity

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

**Teratogenicity** 

No known significant effects or critical hazards.

mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Notes to physician

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See section 11 for more detailed information on health effects and symptoms.

### 5. Fire-fighting measures

Flammability of the product

In a fire or if heated, a pressure increase will occur and the container may burst.

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Extinguishing media Suitable

Use an extinguishing agent suitable for the surrounding fire.

Not suitable

None known.

Special exposure hazards

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Hazardous combustion products

Decomposition products may include the following materials: carbon

oxides, halogenated compounds,

Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. Accidental release measures

Personal precautions

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Large spill

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Eyes** 

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to

liquid splashes, mists or dusts.

Skin

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved

by a specialist before handling this product.

**Environmental exposure** 

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to

reduce emissions to acceptable levels.

## 9. Physical and chemical properties

#### Information on basic physical and chemical properties

**Appearance** 

Physical state

Color Odor

pН

Liquid Yellowish. characteristic. Odor threshold Not available

**Boiling point** Flash point

Greater than 200 °C (392 °F) Greater than 150 °C (302 °F) Not available

Not available

**Evaporation rate** 

Flammable limits

Upper:

Not available Lower: Not available Vapor pressure Less than 0.1 hPa Vapor density Not available Relative density Not available **Partial** Solubility Partition coefficient: Not available

n-octanol/water

Auto-ignition temperature **Decomposition temperature** 

**Viscosity** 

Not available Not available

Kinematic-Not available

Dynamic-Approx. 1,250 mPa·s @25 °C (77 °F)

Typical % solids

Not available

Other information Not applicable.

## 10. Stability and reactivity

Reactivity

Stable under normal conditions.

**Stability** 

The product is stable. Under normal conditions of storage and use,

hazardous polymerization will not occur.

Conditions to avoid

Strong oxidizer,

Materials to avoid

No specific data.

Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

UN/NA Regulatory Proper shipping name Classes/\*PG Reportable information number Quantity (RQ) CFR Non-regulated TDG Non-regulated **IMO/IMDG** 3082 ENVIRONMENTALLY Class 9 III HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATIVES) IATA (Cargo) 3082 ENVIRONMENTALLY Class 9 III HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATIVES)

\*PG: Packing group

### 15. Regulatory information

US regulations

**HCS Classification** 

Irritating material, Sensitizing material, Target organ effects

U.S. Federal regulations

SARA 311/312 Classification Immediate (acute) health hazard, Delayed (chronic)

health hazard

**SARA 313 - Supplier Notification** 

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and

Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR

Part 372. None required.

SARA 302 Extremely Hazardous Substances None required.

State regulations

Massachusetts RTK Substances None required.

New Jersey RTK Hazardous Substances None required.

Pennsylvania RTK Hazardous Substances None required.

California Prop. 65: None required.

<u>Canada</u>

WHMIS (Canada)

Class D-2B: Material causing other toxic effects (Toxic).

Canadian lists

Canadian NPRI: None required.

International regulations

**Chemical inventories** 

Australia inventory (AICS) All components are listed or exempted.

Canada inventory All components are listed or exempted. Europe inventory All components are listed or exempted. Japan inventory All components are listed or exempted.

China inventory (IECSC) All components are listed or exempted.

Korea inventory All components are listed or exempted.

New Zealand Inventory (NZIoC) Not determined.

Philippines inventory (PICCS) All components are listed or exempted.
United States inventory (TSCA 8b) All components are listed or exempted.