

# **SAFETY DATA SHEET**



17 Shepard Street • Lawrence, MA 01843 USA +1.978.683.9411

## www.keypolymer.com

Issuing Date 02-Jun-2015 Revision Date 18-Sep-2023 Revision Number 10

## 1. Identification of the Substance/Preparation and of the Company/Undertaking

**Product identifier** 

Product Name KEY EC1055B

Other means of identification

Product Code(s) EC1055B UN/ID no. UN3066 Product Technology Epoxy B side

None

Curing chemical. FOR INDUSTRIAL USE ONLY.

Restrictions on use: Do not use this product for any use other than intended

Manufacturer Address Key Polymer Holdings, LLC 17 Shepard Street

Lawrence, MA 01843, USA

**Company Phone Number** 978-683-9411 (8AM - 5PM EST) (M-F)

Emergency Telephone Chemtrec 1-800-424-9300 (24 Hours) CCN 12410

Chemtrec International Phone +1 703-527-3887

## 2. Hazards Identification

### Classification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS). This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Gases)	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Reproductive toxicity	Category 2

## **Emergency Overview**

I	DANGER
- 1	Hazard statements Harmful if swallowed
ı	iamini ii Swallowed

Harmful if inhaled

Causes severe skin burns and eye damage

May cause an allergic skin reaction

Suspected of damaging fertility or the unborn child



Appearance Clear Yellow

Physical state Liquid

Odor Amine

#### **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

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Do not breathe dust, fumes, or vapors

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

## **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Do NOT induce vomiting

#### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

## **Precautionary Statements - Disposal**

Dispose of contents/container in accordance with local/regional/international regulations

### **Hazards Not Otherwise Classified (HNOC)**

Not applicable

#### Other Information

Very toxic to aquatic life with long lasting effects, Very toxic to aquatic life

## 3. Composition/Information on Ingredients

#### **Substance**

Not applicable

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### **Chemical Family**

Epoxy B Side

Chemical name	CAS No.	Weight-%	Trade secret
Proprietary amine	Proprietary	20.0 - 30.0	*
Phenol, 4-nonyl-, branched	84852-15-3	15.0 - 25.0	*
benzyl alcohol	100-51-6	10.0 - 15.0	*
m-Xylylenediamine	1477-55-0	10.0 - 15.0	*
Nonylphenol	25154-52-3	3.0 - 8.0	*

<sup>\*</sup> The exact percentage (concentration) of composition may have been withheld as a trade secret.

## 4. First Aid Measures

### **Description of first aid measures**

General advice Use first aid treatment according to the nature of the injury. For further assistance, contact

your local Poison Control Center. In case of accident or unwellness, seek medical advice

immediately (show directions for use or safety data sheet if possible).

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call

a physician if irritation persists.

**Skin contact** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower. If symptoms persist, call a physician. Wash contaminated clothing before

reuse.

Inhalation IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for

breathing. If breathing is irregular or stopped, administer artificial respiration. Administer

oxygen if breathing is difficult. If symptoms persist, call a physician.

Ingestion IF SWALLOWED:. Rinse mouth. Do NOT induce vomiting. Call a physician or Poison

Control Center immediately.

**Self-protection of the first aider** First Aider: Pay attention to self-protection. Ensure that medical personnel are aware of the

material(s) involved and take precautions to protect themselves.

#### Most important symptoms and effects, both acute and delayed

Symptoms May cause allergic skin reaction. Burning sensation. Itching. Rashes. May cause allergy or

asthma symptoms or breathing difficulties if inhaled.

#### Indication of any immediate medical attention and special treatment needed

**Note to physicians** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. May cause

sensitization in susceptible persons. Treat symptomatically.

#### 5. Fire-Fighting Measures

**Suitable Extinguishing Media** 

Foam, Dry Chemical, Carbon Dioxide (CO2);

Unsuitable extinguishing media Water reactive.

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#### Specific hazards arising from the chemical

Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. Substance will react with water (some violently) releasing flammable, toxic or corrosive gases and runoff. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water ways. Dike for water control.

#### **Hazardous combustion products**

Carbon oxides; Nitrogen oxides (NOx). Ammonia.

**Explosion data** 

**Sensitivity to Mechanical Impact** None. Sensitivity to Static Discharge None.

## 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.

#### 6. Accidental Release Measures

#### Personal precautions, protective equipment and emergency procedures

Attention!. Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate Personal precautions

ventilation, especially in confined areas. Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.

Other Information Use personal protective equipment as required.

For Emergency Responders Use personal protective equipment as required.

**Environmental precautions** 

**Environmental precautions** Do not allow into any sewer, on the ground or into any body of water. See Section 12 for

additional Ecological Information.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Pick up and transfer to properly labeled containers. Methods for cleaning up

## 7. Handling and Storage

#### Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with Advice on safe handling

> skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Transfer and handle product only in closed systems. Remove contaminated clothing and

shoes. Wash contaminated clothing before reuse. Do not breathe vapor or mist.

## Conditions for safe storage, including any incompatibilities

Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated **Storage Conditions** 

place. Do not reuse container. Keep away from heat, sparks, flame and other sources of

ignition (i.e., pilot lights, electric motors and static electricity).

Incompatible materials Acids; Bases; Strong oxidizing agents; Water.

### 8. Exposure Controls/Personal Protection

#### **Control parameters**

**Exposure Limits** The following ingredients are the only ingredients of the product above the cut-off level (or

level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other

recommended limit. At this time, the other relevant constituents have no known exposure

limits from the sources listed here

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
m-Xylylenediamine	S*	(vacated) S*	Ceiling: 0.1 mg/m <sup>3</sup>
1477-55-0	Ceilina: 0.018 ppm		

### **Appropriate engineering controls**

Engineering controls Showers

Eyewash stations Ventilation systems

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Tight sealing safety goggles. Face protection shield.

Skin and body protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as

appropriate, to prevent skin contact.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Wash hands thoroughly after handling. Do not breathe vapor or mist.

## 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

Physical state Liquid
Appearance Clear

AppearanceClearOdorAmineColorYellowOdor thresholdN/A

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH N/A
Melting point / freezing point N/A

Boiling point / boiling range > 198 °C

Flash point > 120 °C CC (closed cup)

N/A

Evaporation rate Nil Flammability (solid, gas) N/A

Flammability Limit in Air

**Decomposition temperature** 

Upper flammability limit: N/A Lower flammability limit: N/A Vapor pressure N/A Vapor density N/A Relative density 1.009 Water solubility Negligible Solubility in other solvents N/A Partition coefficient N/A **Autoignition temperature** N/A

Kinematic viscosity N/A

Dynamic viscosity N/A

Explosive properties Not an explosive

Oxidizing properties N/A

Other Information

Softening point N/A
Molecular weight N/A
VOC Content (%) N/A
Liquid Density N/A

Bulk density 8.4 pounds/gallon

## 10. Stability and Reactivity

### Reactivity

No data available

#### **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

None under normal processing.

#### **Conditions to avoid**

Keep out of reach of children. Avoid moisture. Incompatible materials.

#### Incompatible materials

Acids; Bases; Strong oxidizing agents; Water.

#### **Hazardous decomposition products**

Carbon oxides; Nitrogen oxides (NOx). Ammonia.

## 11. Toxicological Information

### Information on likely routes of exposure

Product Information Independent laboratory test results confirm that exposure to chemical hazards are well

below the OSHA permissible exposure limits when this product is used as recommended.

Inhalation Harmful by inhalation. Inhalation of corrosive fumes/gases may cause coughing, choking,

headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and

increased heart rate.

Eye contact Causes serious eye damage. Corrosive to the eyes and may cause severe damage

including blindness.

**Skin contact**Corrosive. Causes burns. Harmful in contact with skin. May cause sensitization by skin

contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible

persons.

Ingestion Not an expected route of exposure. Do NOT taste or swallow. Harmful if swallowed. May

cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the

mouth. Swelling of the throat may cause shortness of breath and choking.

Component Information Caution - This preparation contains a substance not yet fully tested

Chemical name ATEmix (oral) ATEmix (dermal) Inhalation LC50

Proprietary amine	= 1030 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 5.01 mg/L (Rat)4 h 1.07 - 5.01 mg/L (Rat)4 h
Phenol, 4-nonyl-, branched 84852-15-3	= 1300 mg/kg (Rat)	= 2000 mg/kg ( Rabbit )	-
benzyl alcohol 100-51-6	= 1230 mg/kg (Rat)	= 2 g/kg (Rabbit)	> 4178 mg/m³ (Rat) 4 h
m-Xylylenediamine 1477-55-0	= 1040 mg/kg (Rat)	= 2 g/kg (Rabbit)	= 2.4 mg/kg (Rat) 4 h
Nonylphenol 25154-52-3	= 580 mg/kg (Rat)	= 2031 mg/kg ( Rabbit )	-

#### Information on toxicological effects

N/A.

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

**Skin corrosion/irritation** Causes burns.

**Serious eye damage/eye irritation** Risk of serious damage to eyes. Causes burns. **Irritation** Irritating to eyes, respiratory system and skin.

**Corrosive** to eyes and skin.

**Sensitization** May cause sensitization by skin contact.

Germ cell mutagenicity N/A.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

Reproductive toxicity Category 2: Substances which should be regarded as if they impair fertility in humans. May

cause harm to the unborn child.

STOT - single exposure N/A.
STOT - repeated exposure N/A.
Aspiration hazard N/A.

## Numerical measures of toxicity - Product Information

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

ATEmix (oral) 767.50 mg/kg
ATEmix (dermal) 2,317.00 mg/kg
ATEmix (inhalation-gas) 4,500.00 mg/l
ATEmix (inhalation-dust/mist) 2.27 mg/l

## 12. Ecological Information

4-Nonylphenol, branched.

#### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects

Chemical name	Algae/aquatic plants	Fish	Crustacea
Proprietary amine	37: 72 h Desmodesmus subspicatus mg/L EC50		14.6 - 21.5: 48 h Daphnia magna mg/L EC50 semi-static
84852-15-3	0.16 - 0.72: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 0.36 - 0.48: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 1.3: 72 h Desmodesmus subspicatus mg/L EC50	mg/L LC50 flow-through 0.1351: 96 h Lepomis macrochirus mg/L LC50 flow-through	0.14: 48 h Daphnia magna mg/L EC50
benzyl alcohol 100-51-6		10: 96 h Lepomis macrochirus mg/L LC50 static 460: 96 h Pimephales promelas mg/L LC50 static	23: 48 h water flea mg/L EC50
m-Xylylenediamine 1477-55-0		87.6: 96 h Oryzias latipes mg/L LC50 semi-static	

Nonylphenol	0.41: 96 h Pseudokirchneriella	0.135: 96 h Pimephales promelas	0.0874 - 0.124: 48 h Daphnia magna
25154-52-3	subcapitata mg/L EC50	mg/L LC50 flow-through	mg/L EC50 semi-static
	1.3: 72 h Desmodesmus subspicatus		0.17 - 0.21: 48 h Daphnia magna
	mg/L EC50		mg/L EC50 Static
	_		0.14: 48 h Daphnia magna mg/L
			EC50

#### Persistence and degradability

N/A

Chemical name	Partition coefficient
Proprietary amine	0.79
benzyl alcohol 100-51-6	1.1
Nonylphenol 25154-52-3	3.28

#### Other adverse effects

NI/Δ

Ozone depletion potential (ODP) N/A

## 13. Disposal Considerations

## Waste treatment methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

**Contaminated packaging** Do not reuse container.

## 14. Transport Information

DOT

UN/ID no. UN3066
Proper shipping name Paint
Hazard Class 8
Packing Group III

Special Provisions B52, IB3, T4, TP1, TP29, 367

Marine pollutant 4-Nonylphenol, branched.

Description UN3066, PAINT, (4-Nonylphenol, branched), 8, III, Marine pollutant

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Number

ICAO (air)

UN/ID no. UN3066
Proper shipping name Paint
Hazard Class 8
Packing Group III

Special Provisions A3, A72, A192
Description UN3066 Paint, 8,III

IATA

UN/ID no.
Proper shipping name
Hazard Class
Packing Group
ERG Code
UN3066
Paint
Baint
Bain

Special Provisions A3, A72, A803, A192 Description UN3066 Paint 8,III

**IMDG** 

UN/ID no. UN3066
Proper shipping name Paint
Hazard Class 8
Packing Group III
EmS-No. F-A, S-B

Special Provisions 163, 223, 367

Marine pollutant 4-Nonylphenol, branched

**Description** UN3066 Paint 8, III, Marine pollutant

## 15. Regulatory Information

#### **International Inventories**

## Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Phenol, 4-nonyl-, branched - 84852-15-3	84852-15-3	15.0 - 25.0	1.0
Nonylphenol - 25154-52-3	25154-52-3	3.0 - 8.0	1.0

## SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

## **US State Regulations**

### **U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Proprietary amine	X		

benzyl alcohol 100-51-6		X	X
m-Xylylenediamine 1477-55-0	X	X	X
Nonylphenol 25154-52-3		Х	Х

## **U.S. EPA Label Information**

#### EPA Pesticide Registration Number Not applicable

## 16. Other Information

Prepared By Key Polymer Corp Compliance

Issuing Date02-Jun-2015Revision Date18-Sep-2023

**Revision Note** 

N/A

#### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**