

# **Safety Data Sheet**



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# www.keypolymer.com

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

**Product Identifier** 

Product name KEY FP100B

**Other Means of Identification** 

Product Code FP100B 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 Corporation 17 Shepard Street Lawrence MA 01843 US

Lawrence, MA 01843, USA

**Company Phone Number** 978-683-9411 (8AM - 5PM EST) (M-F) **Emergency Telephone** Chemtrec 1-800-424-9300 (24 Hours)

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 - Dermal	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1

#### **EMERGENCY OVERVIEW**

# WARNING

#### Hazard Statements

Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction



Appearance Viscous Light Brown

Physical State Paste

Odor Amine

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Wear protective gloves, protective clothing, eye protection, face protection

Avoid breathing dust, fumes, or vapors

Contaminated work clothing should not be allowed out of the workplace

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 advice/attention

IF ON SKIN: Wash with plenty of soap and water

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

Take off contaminated clothing and wash before reuse

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

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

Rinse mouth

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

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)**

#### Other Information

May be harmful if swallowed

93.050701% of the mixture consists of ingredient(s) of unknown toxicity

# 3. Composition/Information on Ingredients

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

#### **Chemical Family**

Epoxy B Side, Curing Agent

Chemical Name	CAS No	Weight-%	Trade secret
Calcium carbonate	1317-65-3	20 - 30	*
Cellulose microcrystalline	9004-34-6	1 - 5	*
Tris(dimethylaminomethyl)phenol	90-72-2	1 - 5	*
Silicon dioxide	14808-60-7	0.1 - 0.5	*

Calcium carbonate, when encapsulated in a polymer, is not expected to pose a respirable health hazard when processed under normal conditions of use.

### 4. First Aid Measures

#### FIRST AID MEASURES

**General Advice** 

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

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

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.

Indication of Any Immediate Medical Attention and Special Treatment Needed

Note to Physicians Treat symptomatically.

# 5. Fire-Fighting Measures

#### **Suitable Extinguishing Media**

Foam, Dry Chemical, Carbon Dioxide (CO2);

Unsuitable Extinguishing Media Water reactive.

#### **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).

**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

Personal Precautions Ensure adequate ventilation, especially in confined areas.

**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.

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

# 7. Handling and Storage

**Precautions for Safe Handling** 

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Store and handle away from heat, flames and oxidizing materials. Keep containers tightly

closed in a cool, well-ventilated place.

Incompatible Materials Acids; Bases; Strong oxidizing agents; Water. Product slowly corrodes copper, aluminum,

zinc and galvanized surfaces.

# 8. Exposure Controls/Personal Protection

#### **Control Parameters**

**Exposure Guidelines** 

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium carbonate 1317-65-3	-	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 15 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable fraction	TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust
Cellulose microcrystalline 9004-34-6	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 15 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable fraction (vacated) TWA: 5 mg/m³ (vacated) STEL: 10 mg/m³	TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust TWA: 1 mg/m³
Silicon dioxide 14808-60-7	TWA: 0.025 mg/m³ respirable fraction	(vacated) TWA: 0.1 mg/m³ respirable dust : (30)/(%SiO2 + 2) mg/m³ TWA total dust : (250)/(%SiO2 + 5) mppcf TWA respirable fraction : (10)/(%SiO2 + 2) mg/m³ TWA respirable fraction	IDLH: 50 mg/m³ respirable dust TWA: 0.05 mg/m³ respirable dust

#### **Appropriate Engineering Controls**

Engineering Controls Showers

Eyewash stations Ventilation systems

Individual Protection Measures, Such As Personal Protective Equipment

**Eye/Face Protection** Splash Goggles. Avoid contact with eyes.

**Skin and Body Protection** Wear protective gloves and protective clothing.

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

Setaflash Closed Tester

provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

# 9. Physical and Chemical Properties

#### Information on Basic Physical and Chemical Properties

Physical StatePasteAppearanceViscousOdorAmine

Color Light Brown Odor Threshold No information available

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

pH No information available
Melting Point/Freezing Point No information available

Boiling Point/Boiling Range > 150 °C Flash Point 155.5 °C

**Evaporation Rate** Slower than n-butyl acetate **Flammability (Solid, Gas)** No information available

Flammability Limits in Air

Upper Flammability Limits
Lower Flammability Limit
Vapor Pressure
Vapor Density

No information available
No information available
Heavier than air

Specific Gravity 1.2

Water Solubility Negligible

Solubility in Other Solvents
Partition Coefficient
Autoignition Temperature
Decomposition Temperature
No information available
No information available
No information available

Kinematic Viscosity 71667 cSt

Dynamic Viscosity86000 cps @ 25° CExplosive PropertiesNot an explosiveOxidizing PropertiesNo information available

**Other Information** 

Softening Point
Molecular Weight
VOC Content (%)
Density
No information available
No information available
No information available
10.0 pounds/gallon
No information available

# 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. Heat, flames and sparks.

**Incompatible Materials** 

Acids; Bases; Strong oxidizing agents; Water. Product slowly corrodes copper, aluminum, zinc and galvanized surfaces.

**Hazardous Decomposition Products** 

Carbon oxides; Nitrogen oxides (NOx). Aldehydes. Calcium oxides. Nitric acid. Nitrosamines if product comes in contact with nitrous acid, nitrites or atmospheres with high nitrous oxide concentrations. Ammonia. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

# 11. Toxicological Information

#### Information on Likely Routes of Exposure

**Product Information** The product has not been tested.

**Inhalation** Remove to fresh air.

**Eye Contact** Avoid contact with eyes. Severely irritating to eyes.

**Skin Contact** Avoid contact with skin. Irritating to skin. Repeated or prolonged skin contact may cause

allergic reactions with susceptible persons.

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

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

Caution This proparation contains a substance not yet raily toolea				
Chemical Name	Oral LD50 (Rat)	Dermal LD50 ( Rabbit)	Inhalation LC50	
Cellulose microcrystalline 9004-34-6	> 5 g/kg (Rat)	> 2 g/kg(Rabbit)	> 5800 mg/m³(Rat)4 h	
Tris(dimethylaminomethyl)phenol 90-72-2	= 1000 mg/kg (Rat)	= 1280 mg/kg (Rat)	-	
Silicon dioxide 14808-60-7	= 500 mg/kg (Rat)	-	-	

#### Information on toxicological effects

No information available.

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

**Skin corrosion/irritation** Irritating to skin. Repeated or prolonged contact may cause skin irritation and dermatitis.

Serious eye damage/eye irritation Irritating to eyes.

Irritation Irritating to eyes and skin.

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

Germ Cell Mutagenicity No information available.

**Carcinogenicity**Silicon Dioxide (CAS 14808-60-7) is a naturally occurring substance that poses low respirable carcinogen risk when encapsulated in a polymeric liquid. If sanding or grinding

finished product, wear appropriate personal protective equipment for respirable dust hazards. Cellulose Microcrystalline (CAS 9004-34-6) is a naturally occurring substance that

poses very low respirable carcinogen risk when encapsulated in a polymeric liquid.

Chemical Name	ACGIH	IARC	NTP	OSHA
Cellulose microcrystalline 9004-34-6		Group 1	Known	Х
Silicon dioxide 14808-60-7	A2	Group 1	Known	Х

ACGIH (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive Toxicity
STOT - Single Exposure
STOT - Repeated Exposure
No information available.
No information available.

Chronic Toxicity Repeated contact may cause allergic reactions in very susceptible persons.

**Aspiration Hazard** No information available.

**Numerical Measures of Toxicity - Product Information** 

Unknown Acute Toxicity 93.050701% of the mixture consists of ingredient(s) of unknown toxicity

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

ATEmix (oral) 2255 mg/kg ATEmix (dermal) 1810 mg/kg ATEmix (inhalation-dust/mist) 9.7 mg/l

# 12. Ecological Information

#### **Ecotoxicity**

No information available

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment

#### Persistence and Degradability

No information available

#### **Other Adverse Effects**

No information available

Ozone Depletion Potential (ODP) No information available

# 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** Not regulated

ICAO (air) Not regulated

IATA Not regulated

<u>IMDG</u> Not regulated

# 15. Regulatory Information

International Inventories

TSCA All components of this product are either exempt or included on the TSCA Inventory in

compliance with the Toxic Substances Control Act.

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

#### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
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**

The following chemicals may be contained in this product in de minimis amounts not required for listing in section 3. However, these chemicals do appear on some state Right-to-Know (RTK) and/or other hazardous substance lists. Please check your state's listings for more information.

#### **California Proposition 65**

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65	
Cellulose microcrystalline - 9004-34-6	Carcinogen	
Silicon dioxide - 14808-60-7	Carcinogen	

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Calcium carbonate 1317-65-3	X	X	Х
Cellulose microcrystalline 9004-34-6	X	X	Х
Silicon dioxide 14808-60-7	X	X	Х

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

#### EPA Pesticide Registration Number Not applicable

16. Other Information				
<u>HMIS</u>	Health Hazards 3	Flammability 1	Physical Hazards 0	Personal Protection X
Prepared by Issue Date Revision Date	Key Polymer Corp Compliance 02-Jun-2015 20-Jul-2015			

#### **Revision note**

No information available

# **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**