

## KELMAR® Monobond 100 Hardener - Part B

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	KELMAR® Monobond 100 Hardener - Part B
<b>Other Means of Identification</b>	N/A
<b>Product Family</b>	Epoxy Hardeners
<b>Recommended Use</b>	Industrial concrete coating.
<b>Restrictions on Use</b>	This product is designed as part of a system in 2 parts and must be mixed, according to manufacturer's instructions, with the appropriate partner product before use.
<b>Manufacturer</b>	R&D Technical Solutions Ltd., 7000 Davand Drive, Mississauga, ON, L5T 1J5, 905-795-9900, <a href="http://www.rdsolutions.ca">www.rdsolutions.ca</a>
<b>Emergency Phone No.</b>	CANUTEC, 1-613-996-6666, 24 HR

### SECTION 2. HAZARD IDENTIFICATION

#### Classification

Skin irritation - Category 2; Serious eye damage - Category 1; Respiratory sensitization - Category 1; Skin sensitization - Category 1

#### Label Elements



Signal Word:

Danger

Hazard Statement(s):

H315 + H320 Causes skin and eye irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary Statement(s):

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands and skin thoroughly after handling.

P280 Wear eye protection/face protection.

P280 Wear protective gloves.

P284 In case of inadequate ventilation wear respiratory protection (NIOSH approved air-purifying respirator with an appropriate cartridge).

P302 + P352 IF ON SKIN: Wash with plenty of water.

P333 + P313 If skin irritation or rash occurs: Get medical advice or attention.

P304 + P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTRE or doctor.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:  
P403 + P235 Store in a well-ventilated place. Keep cool.

Disposal:  
P501 Dispose of contents and container in accordance with local, regional, national and international regulations.

#### Other Hazards

Hazard Not Otherwise Classified (HNOC): None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Cashew, nutshell extract, decarboxylated, distilled	8007-24-7	15.0-40.0		
Ethylenediamine	107-15-3	1.0-5.0		
Diethylenetriamine	111-40-0	1.0-5.0		
Phenol	108-95-2	0.1-1.0		

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

Remove source of exposure or move to fresh air. If experiencing respiratory symptoms (e.g. coughing, shortness of breath, wheezing), call a Poison Centre or doctor. Get medical advice or attention if you feel unwell or are concerned.

##### Skin Contact

Avoid direct contact. Wear chemical protective clothing if necessary. Take off immediately contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Rinse with lukewarm, gently flowing water for 5 minutes. If skin irritation or a rash occurs, get medical advice or attention. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely.

##### Eye Contact

Avoid direct contact. Wear protective eye-wear/goggles if necessary. Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present, after the initial 1-2 minutes and continue flushing for several additional minutes. If eye irritation persists, get medical advice or attention.

##### Ingestion

Rinse mouth with water. Do not induce vomiting. If vomiting occurs naturally, lie on your side in the recovery position. Rinse mouth with water again. Get medical advice or attention if you feel unwell or are concerned.

#### Most Important Symptoms and Effects, Acute and Delayed

Respiratory sensitizer. May cause asthma or an asthma-like reaction in some people.

#### Immediate Medical Attention and Special Treatment

##### Target Organs

This product is unlikely to target specific organs. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

##### Special Instructions

Not applicable.

##### Medical Conditions Aggravated by Exposure

Skin allergies, asthma.

### SECTION 5. FIRE-FIGHTING MEASURES

Product Identifier: KELMAR® Monobond 100 Hardener - Part B - Ver. 1  
Date of Preparation: March 14, 2019  
Date of Last Revision: March 14, 2019

## Extinguishing Media

### Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire. Use water to keep non-leaking, fire-exposed containers cool.

### Unsuitable Extinguishing Media

Do not use direct water stream - may cause fire to spread.

## Specific Hazards Arising from the Product

This product presents no unusual hazards in a fire situation.

Not known to generate any hazardous decomposition products in a fire.

## Special Protective Equipment and Precautions for Fire-fighters

No special precautions are necessary.

Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Non-emergency personnel: evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Emergency responders: use the personal protective equipment recommended in Section 8 of this safety data sheet.

### Environmental Precautions

It is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

### Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product. Suitable absorbents are: clay, dirt, sand, Milsorb® place used absorbent into suitable, covered, labelled containers for disposal. Contaminated absorbent poses the same hazard as the spilled product.

### Other Information

Report spills to local health, safety and environmental authorities, as required.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Prevent all skin contact. Do not get in eyes, on skin or on clothing. Do not breathe in this product.

### Conditions for Safe Storage

Store in an area that is: well-ventilated. Store in the original, labelled, shipping container. Empty containers may contain hazardous residue. Store separately. Keep closed. Follow all precautions given on this safety data sheet.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Not available.

Consult local authorities for provincial or state exposure limits.

### Appropriate Engineering Controls

General ventilation is usually adequate. Do not allow product to accumulate in the air in work or storage areas, or in confined spaces. Workers must use appropriate certified respirators when facing concentrations above the exposure limits. Provide eyewash and safety shower if contact or splash hazard exists.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles. Wear chemical safety goggles and face shield when contact is possible.

#### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots. Chemical-resistant, impervious gloves which comply with an approved standard should be worn at all times when handling.

Product Identifier: KELMAR® Monobond 100 Hardener - Part B - Ver. 1

Date of Preparation: March 14, 2019

Date of Last Revision: March 14, 2019

Page 03 of 07

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling.

#### **Respiratory Protection**

Not usually required when working with small quantities. For non-routine or emergency situations: wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Basic Physical and Chemical Properties**

<b>Appearance</b>	Red - brown liquid.
<b>Odour</b>	amine-like
<b>Odour Threshold</b>	Not available
<b>pH</b>	Not available
<b>Melting Point/Freezing Point</b>	Not available (melting); Not available (freezing)
<b>Initial Boiling Point/Range</b>	Not available
<b>Flash Point</b>	> 104 °C (219 °F)
<b>Evaporation Rate</b>	Not available
<b>Flammability (solid, gas)</b>	Not applicable (liquid).
<b>Upper/Lower Flammability or Explosive Limit</b>	Not available (upper); Not available (lower)
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (air = 1)</b>	Not available
<b>Relative Density (water = 1)</b>	0.981
<b>Solubility</b>	Immiscible in water; Not available (in other liquids)
<b>Partition Coefficient, n-Octanol/Water (Log Kow)</b>	Not available
<b>Auto-ignition Temperature</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Viscosity</b>	Not available (kinematic); Not available (dynamic)
<b>Other Information</b>	
<b>Physical State</b>	Liquid
<b>VOC</b>	VOC < 5.0 g/L - water

## **SECTION 10. STABILITY AND REACTIVITY**

### **Reactivity**

Not reactive under normal conditions of use.

### **Chemical Stability**

Normally stable.

### **Possibility of Hazardous Reactions**

None expected under normal conditions of storage and use.

### **Conditions to Avoid**

Freezing. Prolonged exposure to high temperatures.

### **Incompatible Materials**

None known.

### **Hazardous Decomposition Products**

None known.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Skin contact; eye contact; ingestion.

### Acute Toxicity

LC50: Not applicable.

Oral ATEmix = 7714.26 mg/kg

Dermal ATEmix = 8023.75 mg/kg

### Skin Corrosion/Irritation

There is limited evidence of moderate or severe irritation.

### Serious Eye Damage/Irritation

Animal tests show serious eye irritation. There is limited evidence of serious eye damage. May irritate or burn the eyes. Permanent damage including blindness may result.

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

May cause nose and throat irritation.

#### Skin Absorption

No information was located.

#### Ingestion

No information was located.

### Aspiration Hazard

No information was located.

### STOT (Specific Target Organ Toxicity) - Repeated Exposure

Based on available data, the classification criteria are not met.

### Respiratory and/or Skin Sensitization

May cause severe asthma-like symptoms (respiratory sensitization) based on information for closely related chemicals. May cause an allergic reaction (skin sensitization) based on limited evidence. In sensitized people, exposure to even small amounts may cause symptoms to be aggravated, becoming more severe.

### Carcinogenicity

Not known to cause cancer.

### Reproductive Toxicity

#### Development of Offspring

Not known to harm the unborn child.

#### Sexual Function and Fertility

Not known to cause effects on sexual function or fertility.

#### Effects on or via Lactation

Not known to cause effects on or via lactation.

### Germ Cell Mutagenicity

Based on available data, the classification criteria are not met.

### Interactive Effects

No information was located.

## SECTION 12. ECOLOGICAL INFORMATION

This product has not been tested. The toxicity value statements have been derived from the properties of individual components.

### Ecotoxicity

May be harmful to aquatic life.

**Persistence and Degradability**

No information was located.

**Bioaccumulative Potential**

No information was located.

**Mobility in Soil**

No information was located.

**Other Adverse Effects**

There is no information available.

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal Methods**

This product and its container must be disposed of as hazardous waste. Do NOT dump into any sewers, on the ground or into any body of water. The required hazard evaluation of the waste and compliance with the applicable hazardous waste laws are the responsibility of the user. Dispose of contents and container in accordance with local, regional, national and international regulations.

**SECTION 14. TRANSPORT INFORMATION**

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations. Not regulated under IATA Regulations.

**Special Precautions** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**SECTION 15. REGULATORY INFORMATION****Safety, Health and Environmental Regulations****Canada****Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)**

All ingredients are listed on the DSL or are not required to be listed.

**USA****Toxic Substances Control Act (TSCA) Section 8(b)**

All ingredients are on the TSCA Inventory or are exempt from TSCA Inventory requirements under 40 CFR 720.

**SECTION 16. OTHER INFORMATION**

<b>SDS Prepared By</b>	Compliance & Documentation Coordinator
<b>Phone No.</b>	905-795-9900
<b>Date of Preparation</b>	March 14, 2019
<b>Date of Last Revision</b>	March 14, 2019
<b>Revision Indicators</b>	Not applicable.
<b>Key to Abbreviations</b>	IARC = International Agency for Research on Cancer NIOSH = National Institute for Occupational Safety and Health NTP = National Toxicology Program OSHA = US Occupational Safety and Health Administration
<b>References</b>	CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Accelrys, Inc. Available from Canadian Centre for Occupational Health and Safety (CCOHS).
<b>Disclaimer</b>	It is the responsibility of the user to review all information regarding this and associated materials, dependent upon manufacturing circumstances and related processes. To the best of

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our knowledge, all information and recommendations in this publication are accurate (to the date of publication). THE INFORMATION CONTAINED HEREIN CANNOT BE CONSTRUED AS A WARRANTY, EXPRESS OR OTHERWISE.

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Product Identifier: KELMAR® Monobond 100 Hardener - Part B - Ver. 1  
Date of Preparation: March 14, 2019  
Date of Last Revision: March 14, 2019

Page 07 of 07