1. Identification

1.1. Product identifier
Product Identity 180 Epoxy Primer Part B
Alternate Names 180 Epoxy Primer Part B

1.2. Relevant identified uses of the substance or mixture and uses advised against
Intended use See Technical Data Sheet.
Application Method See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet
Company Name Karnak Corporation
330 Central Ave.
Clark, NJ 07066 USA

Emergency www.karnakcorp.com
CHEMTREC (USA) (800) 424-9300
24 hour Emergency Telephone No. OUTSIDE THE U.S AND CANADA 1-202-483-7616
Customer Service: Karnak Corporation 1-800-526-4236

2. Hazard(s) identification

2.1. Classification of the substance or mixture
Flammable Liquids 4
Skin Irritation 2
Eye Irritation 2A
Skin Sensation 1

2.2. Label elements
[Danger]: Combustible liquid. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. Contains materials suspected of causing cancer (bound in liquid/paint, not airborne dust).

[DANGER]

[Prevention]:

Page 1 of 9
Safety Data Sheet
180 EPOXY PRIMER PART B


[Response]:
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 immediately. If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention.

[Storage]:
Store in a well-ventilated place. Keep cool.

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

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

<table>
<thead>
<tr>
<th>Ingredient/Chemical Designations</th>
<th>Weight %</th>
<th>GHS Classification</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Limestone \nCAS Number: 0001317-65-3</td>
<td>30 - 60</td>
<td>Not Classified</td>
<td></td>
</tr>
<tr>
<td>Fatty acids, C18-unsaturated, dimers, reaction products with Polyethylenepolyamines \nCAS Number: 68410-23-1</td>
<td>5 - 20</td>
<td>Skin Irrit. 2, H315 Eye Irrit. 2A H319/H370 Skin Sens. 1,H317</td>
<td></td>
</tr>
<tr>
<td>Solvent naphtha, petroleum, light aromatic \nCAS Number: 64742-95-6</td>
<td>5 - 20</td>
<td>Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Asp. Tox 1, H304</td>
<td></td>
</tr>
<tr>
<td>Carbon Black** \nCAS Number 1333-86-4</td>
<td>0.1 - 1</td>
<td>Carc. 2</td>
<td></td>
</tr>
</tbody>
</table>

*In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

** These materials are bound in liquid/paint and are not airborne or in dust form

4. First aid measures

4.1. Description of first aid measures

General
In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

Inhalation
If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Eyes
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lenses, if worn. If irritation persists, get medical attention.
Skin
In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.

Ingestion
If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Overview
Symptoms may not appear immediately. In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible)

Inhalation
May cause respiratory irritation

Skin Contact
Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause sensitization by skin contact.

Eye Contact
Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.

Ingestion
May be harmful if swallowed. May cause stomach distress, nausea or vomiting

5. Fire-fighting measures

5.1. Extinguishing media
Suitable extinguishing media – Treat for surrounding material. Unsuitable extinguishing media – None known

5.2. Special hazards arising from the substance or mixture
Fire hazard – Products of combustion may include, and are not limited to oxides of carbon.

5.3. Advice for fire-fighters
Protection during firefighting – Keep upwind of fire. Wear full firefighting turn-out gear (full Bunker gear) and respiratory protection (SCBA)

ERG Guide No. ----

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
General measures - Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Eliminate sources of ignition.

6.2. Environmental precautions

For containment - Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Methods for cleaning up – Scoop up material and place in a disposal container. Provide ventilation.

6.3. Methods and material for containment and cleaning up

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

7. Handling and storage

7.1. Precautions for safe handling

Keep away from sources of ignition. – No Smoking. Avoid contact with skin and eyes. Do not swallow. Avoid breathing vapour or mist. Handle and open container with care. When using do not eat, drink or smoke.

Hygiene measures - Wash hands before eating, drinking, or smoking. Launder contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions - Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place.

7.3. Specific end use(s)

Not available.

8. Exposure controls and personal protection

8.1. Control parameters

<table>
<thead>
<tr>
<th>CAS No.</th>
<th>Ingredient</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>0001317-65-3</td>
<td>Limestone</td>
<td>OSHA</td>
<td>TWA (15 mg/m³ total; 5mg/m³ resp)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>TWA: 10mg/m³</td>
</tr>
<tr>
<td>68410-23-1</td>
<td>Fatty acids, C18-unsaturated, dimers, reaction products with Polyethylenepolyamines</td>
<td>OSHA</td>
<td>No Established Limit</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>No Established Limit</td>
</tr>
<tr>
<td>64742-95-6</td>
<td>Solvent naphtha, petroleum, light aromatic</td>
<td>OSHA</td>
<td>Not applicable</td>
</tr>
<tr>
<td></td>
<td></td>
<td>ACGIH</td>
<td>Not applicable</td>
</tr>
<tr>
<td>1333-86-4</td>
<td>Carbon Black</td>
<td>OSHA</td>
<td>3.5 mg/m³</td>
</tr>
</tbody>
</table>

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8.2. Exposure controls

**Respiratory**

In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Hand**

Wear chemically resistant protective gloves.

**Eyes**

Safety glasses or face shield for liquid material.

**Skin**

Safety glasses or goggles are recommended when handling product. Wear suitable protective clothing.

**Engineering Controls**

Maintain levels below Community environmental protection thresholds. Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

**Other Work Practices**

Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle according to established industrial hygiene and safety practices.

### 9. Physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Viscous</td>
</tr>
<tr>
<td>Color</td>
<td>Dark Gray</td>
</tr>
<tr>
<td>Odor</td>
<td>Aromatic, strong</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not Measured</td>
</tr>
<tr>
<td>pH</td>
<td>Not Measured</td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>NA</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No Measured</td>
</tr>
<tr>
<td>Flash Point</td>
<td>&gt; 60°C (&gt; 140°F)</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Flammable</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Lower Explosive Limit: Not Measured</td>
</tr>
<tr>
<td>Upper Explosive Limit: Not Measured</td>
<td></td>
</tr>
<tr>
<td>Lower Explosive Limit: Not Measured</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure (Pa)</td>
<td>Not Measured</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Measured</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.394</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Not Measured</td>
</tr>
</tbody>
</table>
Partition coefficient n-octanol/water (Log Kow)  Not Measured
Auto-ignition temperature  Not Measured
Decomposition temperature  Not Measured
Viscosity (cSt)  Not Measured

9.2. Other information
No other relevant information.

10. Stability and reactivity

10.1. Reactivity
No dangerous reaction known under conditions of normal use.

10.2. Chemical stability
Stable under normal circumstances.

10.3. Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

10.5. Incompatible materials
Oxidizers

10.6. Hazardous decomposition products
May include, and are not limited to oxides of Carbon.

11. Toxicological information

Acute toxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Oral LD50, mg/kg</th>
<th>Skin LD50, mg/kg</th>
<th>Inhalation Vapor LC50, mg/L/4hr</th>
<th>Inhalation Dust/Mist LC50, mg/L/4hr</th>
<th>Inhalation Gas LC50, ppm</th>
</tr>
</thead>
<tbody>
<tr>
<td>180 Epoxy Primer Part B</td>
<td>&gt; 2000 (rat)</td>
<td>&gt; 2000 (rabbit)</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Limestone- (1317-65-3)</td>
<td>6450 (rat)</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Fatty acids, C18-unsaturated, dimers, reaction products with Polyethylene polyamines (68410-23-1)</td>
<td>&gt;2000 (rat)</td>
<td>&gt;2000 (rat)</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Solvent naphtha, petroleum, light aromatic (64742-95-6)</td>
<td>8400 (rat)</td>
<td>&gt; 2000 (rabbit)</td>
<td>&gt;5.2 mg/L/4h</td>
<td>No data available</td>
<td>No data available</td>
</tr>
<tr>
<td>Carbon Black (1333-86-4)</td>
<td>&gt;15400 (rat)</td>
<td>&gt;3000 (rat)</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

<table>
<thead>
<tr>
<th>Classification</th>
<th>Category</th>
<th>Hazard Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>---</td>
<td>Causes skin irritation</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>---</td>
<td>Causes serious eye irritation</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>---</td>
<td>May cause an allergic skin reaction</td>
</tr>
<tr>
<td>Skin sensitization</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>---</td>
<td>Based on available data; the classification criteria are not met</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>---</td>
<td>Based on available data; the classification criteria are not met</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>STOT-single exposure</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>STOT-repeated exposure</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>---</td>
<td>Not Applicable</td>
</tr>
</tbody>
</table>

**Carbon Black (1333-86-4)**

| IARC Group      | 2B – Possibly carcinogenic to humans (airborne, unbound particles of respirable size) |

Reproductive toxicity – based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure) – based on available data, the classification criteria are not met.

Aspiration hazard - based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation – May cause respiratory irritation.

Symptoms/injuries after skin contact – Causes skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May cause sensitization by skin contact.

Symptoms/injuries after eye contact - Causes serious eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause burns.

Symptoms/injuries after ingestion - May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
12. Ecological information

12.1. Toxicity
Ecology – May cause long-term adverse effects in aquatic environment.

12.2. Persistence and degradability
180 Epoxy Primer part B – No additional information available.

12.3. Bioaccumulative potential
180 Epoxy Primer part B – No additional information available.

12.4. Mobility in soil
180 Epoxy Primer part B – No additional information available.

12.5. Results of PBT and vPvB assessment
This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects
Effect on ozone layer 180– No additional information available.

Effect on global warming – No known ecological damage caused by this product.

Other adverse effects- No data available.

13. Disposal considerations

13.1. Waste treatment methods
Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

The description shown may not apply to all shipping situations. Consult 49 CFR, or appropriate regulations, for additional description requirements.

DOT NA No. NA1993
DOT Shipping Name: Combustible liquid, n.o.s. (Petroleum)
DOT Label Information: NA
DOT Hazard Class: Combustible Liquid
DOT Packing Group: III
15. Regulatory information

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

<table>
<thead>
<tr>
<th>180 Epoxy Primer Part B</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>State or local regulations</td>
<td>This product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.</td>
</tr>
</tbody>
</table>

16. Other information

Date of Issue: 07/03/2014

Revision date: 04/08/2015

Version: 1.0

Data sources – SDS prepared pursuant to the Hazard Communications Standard (CFR29 1910.2100) HazCom 2012

Other Information: None.

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

Disclaimer: This 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. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. The information has been completed to the best of our knowledge and is believed to be accurate and reliable as from the date indicated. However, no warranty is made as to its accuracy, reliability or completeness. It is the user’s responsibility to satisfy oneself as to the suitability and completeness of such information for his own particular use.

End of Document