1. Identification of the Substance/Mixture and the Company/Undertaking

1.1 Product Identifier

Product Name: SEMSTONE 805 PART B

Revision Date: 06/11/2019

Supercedes Date: 08/18/2015

1.2 Relevant identified uses of the substance or mixture and uses advised against

Component of multicomponent industrial coatings - Industrial use.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Carboline Company
2150 Schuetz Road
St. Louis, MO USA 63146

Regulatory / Technical Information:
Contact Carboline Technical Services at 1-800-848-4645

Datasheet Produced by:
Alotta, Vicki - ehs@stoncor.com

1.4 Emergency telephone number:
CHEMTREC 1-800-424-9300 (Inside US)
CHEMTREC +1 703 5273887 (Outside US)
HEALTH - Pittsburgh Poison Control 1-412-681-6669

2. Hazard Identification

2.1 Classification of the substance or mixture

Hazardous to the aquatic environment, Chronic, category 2
Carcinogenicity, category 1A
Eye Irritation, category 2
Germ Cell Mutagenicity, category 2
STOT, repeated exposure, category 1
STOT, single exposure, category 3, RTI
Skin Irritation, category 2
Skin Sensitizer, category 1
2.2 Label elements

Symbol(s) of Product
![Symbols]

Signal Word
Danger

Named Chemicals on Label
BUTYL GLYCIDYL ETHER, EPOXY RESIN, MICA, MICROCRYSTALLINE SILICA

HAZARD STATEMENTS

<table>
<thead>
<tr>
<th>Hazard Statement</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irritation, category 2</td>
<td>H315</td>
<td>Causes skin irritation.</td>
</tr>
<tr>
<td>Skin Sensitizer, category 1</td>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
</tr>
<tr>
<td>Eye Irritation, category 2</td>
<td>H319</td>
<td>Causes serious eye irritation.</td>
</tr>
<tr>
<td>STOT, single exposure, category 3, RTI</td>
<td>H335</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>Germ Cell Mutagenicity, category 2</td>
<td>H341</td>
<td>Suspected of causing genetic defects.</td>
</tr>
<tr>
<td>Carcinogenicity, category 1A</td>
<td>H350-1A</td>
<td>May cause cancer.</td>
</tr>
<tr>
<td>STOT, repeated exposure, category 1</td>
<td>H372</td>
<td>Causes damage to organs through prolonged or repeated exposure.</td>
</tr>
<tr>
<td>Hazardous to the aquatic environment, Chronic, category 2</td>
<td>H411</td>
<td>Toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

PRECAUTION PHRASES

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P264 Wash hands thoroughly after handling.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P284 Wear respiratory protection.
- P302+352 IF ON SKIN: Wash with plenty of soap and water.
- P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
- P308+313 IF exposed or concerned: Get medical advice/attention
- P308+P313 IF exposed or concerned: Get medical advice/attention
- P314 Get medical advice/attention if you feel unwell.
- P333+313 If skin irritation or rash occurs: Get medical advice/attention.
- P391 Collect spillage.
- P405 Store locked up.

2.3 Other hazards

No Information

Results of PBT and vPvB assessment:
The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

3. Composition/Information On Ingredients

3.2 Mixtures
Hazardous Ingredients

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical Name</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-36-5</td>
<td>EPOXY RESIN</td>
<td>25 - &lt;50</td>
</tr>
<tr>
<td>12001-26-2</td>
<td>MICA</td>
<td>10 - &lt;25</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>MICROCRYSTALLINE SILICA</td>
<td>10 - &lt;25</td>
</tr>
<tr>
<td>2426-08-6</td>
<td>BUTYL GLYCIDYL ETHER</td>
<td>2.5 - &lt;10</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>TITANIUM DIOXIDE</td>
<td>2.5 - &lt;10</td>
</tr>
<tr>
<td>108-88-3</td>
<td>TOLUENE</td>
<td>1.0 - &lt;2.5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>GHS Symbols</th>
<th>GHS Hazard Statements</th>
<th>M-Factors</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-36-5</td>
<td>GHS07-GHS09</td>
<td>H315-317-411</td>
<td>0</td>
</tr>
<tr>
<td>12001-26-2</td>
<td>GHS07</td>
<td>H319-335</td>
<td>0</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>GHS08</td>
<td>H350-372</td>
<td>0</td>
</tr>
<tr>
<td>2426-08-6</td>
<td>GHS02-GHS07-GHS08</td>
<td>H226-302-317-332-335-341-351-412</td>
<td>0</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>GHS02-GHS07-GHS08</td>
<td>H225-304-315-319-336-361-373</td>
<td>0</td>
</tr>
<tr>
<td>108-88-3</td>
<td>GHS02-GHS07-GHS08</td>
<td>H225-304-315-319-336-361-373</td>
<td>0</td>
</tr>
</tbody>
</table>

Additional Information: The text for GHS Hazard Statements shown above (if any) is given in Section 16.

4. First-aid Measures

4.1 Description of First Aid Measures

**AFTER INHALATION:** Give oxygen or artificial respiration if needed. Remove person to fresh air. If signs/symptoms continue, get medical attention.

**AFTER SKIN CONTACT:** In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If skin irritation persists, call a physician.

**AFTER EYE CONTACT:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**AFTER INGESTION:** Do NOT induce vomiting. Never give anything by mouth to an unconscious person. If swallowed, call a poison control centre or doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Irritating to eyes and skin. May be harmful if swallowed.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

When symptoms persist or in all cases of doubt seek medical advice.

5. Fire-fighting Measures

5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam, Water Fog

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Vapors may spread long distances and ignite.

5.2 Special hazards arising from the substance or mixture

No Information

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus. Evacuate personnel to safe areas. Use NIOSH approved respiratory protection. Use water spray to cool unopened containers.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. For personal protection see section 8.
6.2 Environmental precautions
Do not allow material to contaminate ground water system. Prevent product from entering drains.

6.3 Methods and material for containment and cleaning up
Prevent further leakage or spillage if safe to do so. Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections
Please refer to disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

7. Handling and Storage

7.1 Precautions for safe handling

INSTRUCTIONS FOR SAFE HANDLING: Keep containers dry and tightly closed to avoid moisture absorption and contamination. Prepare the working solution as given on the label(s) and/or the user instructions. Do not breathe vapours or spray mist. Ensure all equipment is electrically grounded before beginning transfer operations. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation/personal protection. Wash thoroughly after handling.

PROTECTION AND HYGIENE MEASURES: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: Heat, flames and sparks.

STORAGE CONDITIONS: Keep container closed when not in use. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

7.3 Specific end use(s)
No specific advice for end use available.

8. Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with Occupational Exposure Limits (US)

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS-No.</th>
<th>ACGIH TWA</th>
<th>ACGIH STEL</th>
<th>ACGIH Ceiling</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPOXY RESIN</td>
<td>9003-36-5</td>
<td>N/E</td>
<td>N/E</td>
<td>N/E</td>
</tr>
<tr>
<td>MICA</td>
<td>12001-26-2</td>
<td>3 MGM3</td>
<td>N/E</td>
<td>N/E</td>
</tr>
<tr>
<td>MICRocrystalline SILICA</td>
<td>14808-60-7</td>
<td>0.025 MGM3</td>
<td>N/E</td>
<td>N/E</td>
</tr>
<tr>
<td>BUTYL GLYCIDYL ETHER</td>
<td>2426-08-6</td>
<td>3 PPM</td>
<td>N/E</td>
<td>N/E</td>
</tr>
<tr>
<td>TITANIUM DIOXIDE</td>
<td>13463-67-7</td>
<td>10 mg/m3</td>
<td>N/E</td>
<td>N/E</td>
</tr>
<tr>
<td>TOLUENE</td>
<td>108-88-3</td>
<td>20 PPM</td>
<td>N/E</td>
<td>N/E</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS-No.</th>
<th>OSHA PEL</th>
<th>OSHA STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPOXY RESIN</td>
<td>9003-36-5</td>
<td>N/E</td>
<td>N/E</td>
</tr>
<tr>
<td>MICA</td>
<td>12001-26-2</td>
<td>20. MPPCF</td>
<td>N/E</td>
</tr>
<tr>
<td>MICRocrystalline SILICA</td>
<td>14808-60-7</td>
<td>0.05 MGM3</td>
<td>N/E</td>
</tr>
<tr>
<td>BUTYL GLYCIDYL ETHER</td>
<td>2426-08-6</td>
<td>135 MGM3, 25 PPM</td>
<td>N/E</td>
</tr>
</tbody>
</table>
FURTHER INFORMATION: Refer to the regulatory exposure limits for the workforce enforced in each country.

8.2 Exposure controls

Personal Protection

RESPIRATORY PROTECTION: In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator. Use only with ventilation to keep levels below exposure guidelines reported in this document. User should test and monitor exposure levels to ensure all personnel are below guidelines. If not sure, or not able to monitor, use State or federally approved supplied air respirator. For silica containing coatings in a liquid state, and/or if no exposure limits are established above, air-supplied respirators are generally not required.

EYE PROTECTION: Ensure that eyewash stations and safety showers are close to the workstation location. Safety glasses with side-shields.

HAND PROTECTION: Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Impervious gloves. Request information on glove permeation properties from the glove supplier. Lightweight protective clothing

OTHER PROTECTIVE EQUIPMENT: No Information

ENGINEERING CONTROLS: Avoid contact with skin, eyes and clothing. Use only in an area equipped with explosion proof exhaust ventilation. Ensure adequate ventilation, especially in confined areas.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Milky Liquid
Physical State Liquid
Odor Epoxy
Odor threshold N/D
pH N/D
Melting point / freezing point (°C) N/D
Boiling point/range 149 F (65 C) - 392 F (200 C)
Flash Point 200F (93C)
Evaporation rate Slower Than Ether
Flammability (solid, gas) Not determined
Upper/lower flammability or explosive limits 1.1 - 21.0
Vapour Pressure, mmHg N/D
Vapour density Heavier than Air
Relative density Not determined
Solubility in / Miscibility with water N/D
Partition coefficient: n-octanol/water Not determined
Auto-ignition temperature (°C) Not determined
Decomposition temperature (°C) Not determined
Viscosity Not Determined
9.2 Other information

- VOC Content g/l: 7
- Specific Gravity (g/cm3): 1.286

10. Stability and Reactivity

10.1 Reactivity
No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
Hazardous polymerisation does not occur.

10.4 Conditions to avoid
Heat, flames and sparks.

10.5 Incompatible materials
Strong oxidizing agents.

10.6 Hazardous decomposition products
Carbon dioxide (CO2), carbon monoxide (CO), oxides of nitrogen (NOx), dense black smoke.
11. Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity:

Oral LD50: N/D
Inhalation LC50: N/D

Irritation: Unknown
Corrosivity: Unknown
Sensitization: Unknown
Repeated dose toxicity: Unknown
Carcinogenicity: Unknown
Mutagenicity: Unknown
Toxicity for reproduction: Unknown
STOT-single exposure: No Information
STOT-repeated exposure: No Information
Aspiration hazard: No Information

If no information is available above under Acute Toxicity then the acute effects of this product have not been tested.

Data on individual components are tabulated below:

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Vapor LC50</th>
<th>Gas LC50</th>
<th>Dust/Mist LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-36-5</td>
<td>EPOXY RESIN</td>
<td>&gt;5000 mg/kg, oral, rat</td>
<td>Not Available</td>
<td>0.000</td>
<td>0.000</td>
<td></td>
</tr>
<tr>
<td>12001-26-2</td>
<td>MICA</td>
<td>Not Available</td>
<td>Not Available</td>
<td>0.000</td>
<td>0.000</td>
<td></td>
</tr>
<tr>
<td>14808-60-7</td>
<td>MICROCRYSTALLINE SILICA</td>
<td>22500 mg/kg</td>
<td>Not Available</td>
<td>0.000</td>
<td>0.000</td>
<td></td>
</tr>
<tr>
<td>2426-08-6</td>
<td>BUTYL GLYCIDYL ETHER</td>
<td>1660 mg/kg, oral, rat</td>
<td>671 ppm/8h, rat, inhalation</td>
<td>0.000</td>
<td>0.000</td>
<td></td>
</tr>
<tr>
<td>13463-67-7</td>
<td>TITANIUM DIOXIDE</td>
<td>25000 mg/kg, oral (rat)</td>
<td>Not Available</td>
<td>No Information</td>
<td>No Information</td>
<td></td>
</tr>
<tr>
<td>108-88-3</td>
<td>TOLUENE</td>
<td>5000 mg/kg, rat oral</td>
<td>12267 mg/kg, dermal, rabbit</td>
<td>8000 ppm/4 hrs, rat, inhalation</td>
<td>0.000</td>
<td>0.000</td>
</tr>
</tbody>
</table>

Additional Information:
This product contains silica which is classified by IARC as a known human carcinogen (Group 1). Crystalline silica is known to cause silicosis. The classification(s) is/are relevant when exposed to these respirable substances in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.
12. Ecological Information

12.1 Toxicity:
- EC50 48hr (Daphnia): Unknown
- IC50 72hr (Algae): Unknown
- LC50 96hr (fish): Unknown

12.2 Persistence and degradability: Unknown

12.3 Bioaccumulative potential: Unknown

12.4 Mobility in soil: Unknown

12.5 Results of PBT and vPvB assessment:
The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

12.6 Other adverse effects: Unknown

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical Name</th>
<th>EC50 48hr</th>
<th>IC50 72hr</th>
<th>LC50 96hr</th>
</tr>
</thead>
<tbody>
<tr>
<td>9003-36-5</td>
<td>EPOXY RESIN</td>
<td>1.6 mg/l (Daphnia</td>
<td>1.8 mg/l (Green Algae)</td>
<td>0.55 mg/l (Rainbow Trout)</td>
</tr>
<tr>
<td>12001-26-2</td>
<td>MICA</td>
<td>No information</td>
<td>No information</td>
<td>No information</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>MICROCRYSTALLINE SILICA</td>
<td>No information</td>
<td>No information</td>
<td>No information</td>
</tr>
<tr>
<td>2426-08-6</td>
<td>BUTYL GLYCIDYL ETHER</td>
<td>3.9 mg/l (Aquatic Invertebrates)</td>
<td>No information</td>
<td>100 mg/l (Bluegill)</td>
</tr>
<tr>
<td>13463-67-7</td>
<td>TITANIUM DIOXIDE</td>
<td>No information</td>
<td>No information</td>
<td>No information</td>
</tr>
<tr>
<td>108-88-3</td>
<td>TOLUENE</td>
<td>6 mg/l (Daphnia magna)</td>
<td>12.5 mg/L (Algae)</td>
<td>5.8 mg/L (Fish)</td>
</tr>
</tbody>
</table>

13. Disposal Considerations

13.1 WASTE TREATMENT METHODS: Do not burn, or use a cutting torch on, the empty drum. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

14.1 UN number N/A
14.2 UN proper shipping name Not Regulated
14.3 Technical name None
14.4 Transport hazard class(es) N/A
14.5 Subsidiary shipping hazard N/A
14.6 Packing group N/A
14.7 Environmental hazards Unknown
14.8 Special precautions for user Unknown
14.9 EmS-No.: N/A
14.10 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code Unknown

15. Regulatory Information
15.1 Safety, health and environmental regulations/legislation for the substance or mixture:

U.S. Federal Regulations: As follows -

**CERCLA - Sara Hazard Category**

This product has been reviewed according to the EPA ‘Hazard Categories’ promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Carcinogenicity, Skin Corrosion or Irritation, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure), Germ cell mutagenicity

**Sara Section 313:**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOLUENE</td>
<td>108-88-3</td>
</tr>
</tbody>
</table>

**Toxic Substances Control Act:**

All components of this product are either listed on the TSCA Inventory or are exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product.

**U.S. State Regulations: As follows -**

**New Jersey Right-to-Know:**

The following materials are non-hazardous, but are among the top five components in this product.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYPROPYLENE GLYCOL DIEPOXIDE RESIN</td>
<td>26142-30-3</td>
</tr>
</tbody>
</table>

**Pennsylvania Right-To-Know**

The following non-hazardous ingredients are present in the product at greater than 3%.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLYPROPYLENE GLYCOL DIEPOXIDE RESIN</td>
<td>26142-30-3</td>
</tr>
</tbody>
</table>

**CALIFORNIA PROPOSITION 65**

WARNING: Cancer and Reproductive Harm -- www.P65Warnings.ca.gov

**International Regulations: As follows -**

* Canadian DSL:

All chemical ingredients included on inventory (DSL)

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

16. Other Information
Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H225  Highly flammable liquid and vapour.
H226  Flammable liquid and vapour.
H302  Harmful if swallowed.
H304  May be fatal if swallowed and enters airways.
H315  Causes skin irritation.
H317  May cause an allergic skin reaction.
H319  Causes serious eye irritation.
H322  Harmful if inhaled.
H335  May cause respiratory irritation.
H336  May cause drowsiness or dizziness.
H341  Suspected of causing genetic defects.
H350  May cause cancer.
H351  Suspected of causing cancer.
H361  Suspected of damaging fertility or the unborn child.
H372  Causes damage to organs through prolonged or repeated exposure.
H373  May cause damage to organs through prolonged or repeated exposure.
H411  Toxic to aquatic life with long lasting effects.
H412  Harmful to aquatic life with long lasting effects.

Reasons for revision

No Information

The information contained herein is, to the best of our knowledge and belief accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.