# Safety Data Sheet

prepared to UN GHS Revision 3

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

### 1.1 Product Identifier

<table>
<thead>
<tr>
<th>Product Identifier</th>
<th>Revision Date</th>
<th>Supercedes Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>0922A1NL</td>
<td>08/13/2018</td>
<td>05/15/2017</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUSTBOND PART A</td>
</tr>
</tbody>
</table>

### 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

<table>
<thead>
<tr>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carboline Company</td>
</tr>
<tr>
<td>2150 Schuetz Road</td>
</tr>
<tr>
<td>St. Louis, MO USA 63146</td>
</tr>
</tbody>
</table>

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

| Datasheet Produced by: |
| Schlereth, Ken - 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
- Eye Irritation, category 2
- Skin Irritation, category 2
- Skin Sensitizer, category 1
2.2 Label elements

Symbol(s) of Product

![Symbol]

Signal Word

warning

Named Chemicals on Label

BISPHENOL A EPOXY RESIN, POLYMER OF EPICHLOROHYDRIN

HAZARD STATEMENTS

<table>
<thead>
<tr>
<th>Hazard Category</th>
<th>GHS シンボル</th>
<th>GHS 備考</th>
<th>M-Factors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irritation, category 2</td>
<td>H315</td>
<td>Causes skin irritation.</td>
<td>0</td>
</tr>
<tr>
<td>Skin Sensitizer, category 1</td>
<td>H317</td>
<td>May cause an allergic skin reaction.</td>
<td>0</td>
</tr>
<tr>
<td>Eye Irritation, category 2</td>
<td>H319</td>
<td>Causes serious eye irritation.</td>
<td>0</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>
<td>0</td>
</tr>
</tbody>
</table>

PRECAUTION PHRASES

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+352 IF ON SKIN: Wash with plenty of soap and water.
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.
P333+313 If skin irritation or rash occurs: Get medical advice/attention.
P391 Collect spillage.

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>25068-38-6</td>
<td>BISPHENOLA EPOXY RESIN</td>
<td>75-100</td>
</tr>
<tr>
<td>41638-13-5</td>
<td>POLYMER OF EPICHLOROHYDRIN</td>
<td>2.5-10</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>25068-38-6</td>
<td>GHS07-GHS09</td>
<td>H315-317-319-411</td>
<td>0</td>
</tr>
<tr>
<td>41638-13-5</td>
<td>GHS07</td>
<td>H315-317-319-412</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
May cause sensitization by skin contact. 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. 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. Avoid breathing vapors, mist or gas. 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>BISPHENOL A EPOXY RESIN</td>
<td>25068-38-6</td>
<td></td>
<td>N/E</td>
<td></td>
</tr>
<tr>
<td>POLYMER OF EPICHLOROHYDRIN</td>
<td>41638-13-5</td>
<td></td>
<td></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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Viscous Green Liquid</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Epoxy</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>N/D</td>
</tr>
<tr>
<td>pH</td>
<td>N/D</td>
</tr>
</tbody>
</table>
9.2 Other information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC Content g/l:</td>
<td>85</td>
</tr>
<tr>
<td>Specific Gravity (g/cm³)</td>
<td>1.15</td>
</tr>
</tbody>
</table>

### 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: Eye and skin irritation: Category 2

Corrosivity: Unknown

Sensitization: Skin Sensitization: category 1

Repeated dose toxicity: STOT Single Skin: Category 3

Carcinogenicity: Unknown

Mutagenicity: Unknown

Toxicity for reproduction: Unknown

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>25068-38-6</td>
<td>BISPHENOL A EPOXY RESIN</td>
<td>11400 mg/kg, rat, oral</td>
<td>23000 mg/kg, dermal, rabbit</td>
<td>&gt;20 mL/kg skin, sensitizer</td>
<td>0.000</td>
<td>0.000</td>
</tr>
</tbody>
</table>

Additional Information:
No Information

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>25068-38-6</td>
<td>BISPHENOL A EPOXY RESIN</td>
<td>2.1 mg/l (daphnia)</td>
<td>11 mg/l (algae)</td>
<td>1.3 mg/l (fish)</td>
</tr>
<tr>
<td>41638-13-5</td>
<td>POLYMER OF EPICHLOROHYDRIN</td>
<td>No information</td>
<td>No information</td>
<td>No information</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  UN 3082
14.2 UN proper shipping name  Environmentally Hazardous Substance, Liquid, NOS (Epoxy Resin)
14.3 Transport hazard class(es)  9
14.4 Packing group  PGIII
14.5 Environmental hazards  Marine Pollutant: Yes (Epoxy Resin)
14.6 Special precautions for user  Unknown
14.7 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:

Skin Corrosion or Irritation, Respiratory or Skin Sensitization, Serious eye damage or eye irritation

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:

Chemical Name  CAS-No.

No Sara 313 components exist in this product.

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:

Chemical Name  CAS-No.

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>DIISOPROPYLBIPHENYLS</td>
<td>69009-90-1</td>
</tr>
<tr>
<td>YELLOW DYE</td>
<td>TRADE SECRET</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>DIISOPROPYLBIPHENYLS</td>
<td>69009-90-1</td>
</tr>
</tbody>
</table>

CALIFORNIA PROPOSITION 65

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

International Regulations: As follows -

* Canadian DSL:

This product contains one or several components that are not on the Canadian DSL nor NDSL lists.

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:

- **H315** Causes skin irritation.
- **H317** May cause an allergic skin reaction.
- **H319** Causes serious eye irritation.
- **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.