# Safety Data Sheet

## Prepared in Accordance with HCS 29 C.F.R. 1910.1200

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

**1.1 Product Identifier** S501A1NL

**Revision Date:** 06/03/2026

**Supercedes Date:** 12/06/2022

**Product Name:** CARBOGUARD 501 PART A

**1.2 Relevant identified uses of the substance or mixture and uses advised against** Component of multicomponent industrial coatings - Industrial use. Advised against: others than recommended

**1.3 Details of the supplier of the safety data sheet**

**Manufacturer:**

Carboline Global Inc.
2150 Schuetz Road
St. Louis, MO USA 63146

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

**Datasheet Produced by:** Schlereth, Ken - regulatory@carboline.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**

Acute Toxicity, Inhalation, category 4
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**



**Signal Word**

Warning

**Named Chemicals on Label**

BENZYL ALCOHOL, BISPHENOL A EPOXY RESIN

**HAZARD STATEMENTS**

| | | |
|---|---|---|
| Skin Irritation, category 2 | H315 | Causes skin irritation. |
| Skin Sensitizer, category 1 | H317 | May cause an allergic skin reaction. |
| Eye Irritation, category 2 | H319 | Causes serious eye irritation. |
| Acute Toxicity, Inhalation, category 4 | H332 | Harmful if inhaled. |
| Hazardous to the aquatic environment, Chronic, category 2 | H411 | Toxic to aquatic life with long lasting effects. |

**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. |
| 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. |
| 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**

| Name According to EEC | EINEC No. | CAS-No. | % | Classifications | |
|---|---|---|---|---|---|
| BISPHENOL A EPOXY RESIN | 500-033-5 | 25068-38-6 | 60 - <80 | H315-317-319-411 | Aquatic Chronic 2, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1 |
| BENZYL ALCOHOL | 202-859-9 | 100-51-6 | 10 - <30 | H302-317-319-332 | Acute Tox. 4 Inhalation, Acute Tox. 4 Oral, Eye Irrit. 2, Skin Sens. 1 |
| TITANIUM DIOXIDE | 236-675-5 | 13463-67-7 | 5.0 - <10 | | |

| CAS-No. | M-Factors |
|---|---|
| 25068-38-6 | |
| 100-51-6 | |
| 13463-67-7 | |

**Remarks:** CAS No. 25068-38-6 identified as CAS No. 1675-54-3, EC No. 216-823-5 under REACH Registration
CAS No 13463-67-7: Note 10

**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. Toxic to aquatic organisms.

### 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

**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.

**FOR SAFETY REASONS NOT TO BE USED:** Do not use a solid water stream as it may scatter and spread fire.

### 5.2 Special hazards arising from the substance or mixture

No Information

### 5.3 Advice for firefighters

SPECIAL FIREFIGHTING PROCEDURES: 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.

SPECIAL FIREFIGHTING PROTECTION EQUIPMENT: No Information

## 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

Dispose of contents/container in accordance with local regulation.

## 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)

The mixing and application to be in accordance with the technical data sheets.

## 8. Exposure Controls/Personal Protection

### 8.1 Control parameters

**Ingredients with Occupational Exposure Limits**
**(US)**

| Name | CAS-No. | ACGIH TWA | ACGIH STEL | ACGIH Ceiling |
|---|---|---|---|---|
| BISPHENOL A EPOXY RESIN | 25068-38-6 | N/E | N/E | N/E |
| BENZYL ALCOHOL | 100-51-6 | N/E | N/E | N/E |
| TITANIUM DIOXIDE | 13463-67-7 | 10 mg/m3 | N/E | N/E |

| Name | CAS-No. | OSHA PEL | OSHA STEL |
|---|---|---|---|
| BISPHENOL A EPOXY RESIN | 25068-38-6 | N/E | N/E |
| BENZYL ALCOHOL | 100-51-6 | N/E | N/E |
| TITANIUM DIOXIDE | 13463-67-7 | 15 MGM3 | N/E |

**FURTHER ADVICE:** Refer to the regulatory exposure limits for the workforce enforced in each country. Some components may not have been classified under the EU CLP Regulation.

### 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.
**BODY PROTECTION:** 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:** | Grey, Viscous Liquid |
| **Physical State** | Liquid |
| **Odor** | Epoxy |
| **Odor threshold** | N/D |
| **pH** | Not determined |
| **Melting point / freezing point (°C)** | Not determined |
| **Boiling point/range (°C)** | 176 F (80 C) - 500 F (260 C) |
| **Flash Point (°C)** | 485 F (251C) |
| **Evaporation rate** | Slower than Ether |
| **Flammability (solid, gas)** | Not determined |
| **Upper/lower flammability or explosive limits** | 0.9 - 13.0 |
| **Vapour Pressure, mmHg** | Not determined |
| **Vapour density** | Heavier than Air |
| **Relative density** | Not determined |
| **Solubility in / Miscibility with water** | Not Determined |
| **Partition coefficient: n-octanol/water** | Not determined |
| **Auto-ignition temperature (°C)** | Not determined |
| **Decomposition temperature (°C)** | Not determined |
| **Viscosity** | Unknown |
| **Explosive properties** | Not determined |
| **Oxidising properties** | Not determined |
| **Particle characteristics** | Not applicable to liquids |

**9.2 Other information**

| | |
|---|---|
| **VOC Content g/l:** | 0 |
| **Specific Gravity (g/cm3)** | 1.24 |

## 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:** No information on the product itself as the product is not tested

**Inhalation LC50:** No information on the product itself as the product is not tested

**Irritation:** Eye Irritation, cateogry 2, Skin Irritation, category 2

**Corrosivity:** Unknown

**Sensitization:** Skin Sensitization: category 1

**Repeated dose toxicity:** Unknown

**Carcinogenicity:** Unknown

**Mutagenicity:** Unknown

**Toxicity for reproduction:** Unknown

**STOT-single exposure:** Unknown

**STOT-repeated exposure:** Unknown

**Aspiration hazard:** 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:**

| CAS-No. | Chemical Name | Oral LD50 | Dermal LD50 | Vapor LC50 | Gas LC50 | Dust/Mist LC50 |
|---|---|---|---|---|---|---|
| 25068-38-6 | BISPHENOL A EPOXY RESIN | 11400 mg/kg, rat, oral | 23000 mg/kg, dermal, rabbit | No Information | No Information | No Information |
| 100-51-6 | BENZYL ALCOHOL | 1230 mg/kg rat, oral | 2001 mg/kg, dermal, rabbit | 4176 mg/l / 4h, Inh, Rat | No Information | No Information |
| 13463-67-7 | TITANIUM DIOXIDE | 25000 mg/kg, oral (rat) | No Information | No Information | No Information | No Information |

**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

| CAS-No. | Chemical Name | EC50 48hr | IC50 72hr | LC50 96hr |
|---|---|---|---|---|
| 25068-38-6 | BISPHENOL A EPOXY RESIN | 2.1 mg/l (daphnia) | 11 mg/l (algae) | 1.3 mg/l (fish) |
| 100-51-6 | BENZYL ALCOHOL | 230 mg/l (Daphnia) | 700 mg/l (Algae) | 10 mg/l (Fish) |
| 13463-67-7 | TITANIUM DIOXIDE | No information | No information | No information |

## 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** UN3082

**14.2 UN proper shipping name** Environmentally Hazardous Substance, Liquid, NOS

**Technical name** (Epoxy Resin)

**14.3 Transport hazard class(es)** 9

**Subsidiary shipping hazard** No Information

**14.4 Packing group** III

**14.5 Environmental hazards** Marine Pollutant: Yes (Epoxy Resin)

**14.6 Special precautions for user** Unknown

**EmS-No.:** F-A, S-F

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code** Unknown

**Additional Notes:** No Information

## 15. Regulatory Information

**15.1 Safety, health and environmental regulations/legislation for the substance or mixture:**

### 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:

### CERCLA - Sara Hazard Category

Acute Toxicity (any route of exposure), 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:

No SARA 313 substances exist in this product above de minimis concentrations.

**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.

| Chemical Name | CAS-No. |
|---|---|
| HYDROPHOBIC SILICA | 67762-90-7 |

**Pennsylvania Right-To-Know**

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

| Chemical Name | CAS-No. |
|---|---|
| HYDROPHOBIC SILICA | 67762-90-7 |

**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:**

| | |
|---|---|
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H411 | Toxic 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.