

**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** 8229S1NL **Revision Date:** 04/09/2025
Product Name: CARBOCOAT 8229 **Supersedes Date:** 12/06/2022
NON-LIFT PRIMER
- 1.2 Relevant identified uses of the substance or mixture and uses advised against** Monocomponent industrial coating - Industrial use.
- 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:** Brombach, Jennifer - 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
Carcinogenicity, category 1A
Eye Irritation, category 2
Flammable Liquid, category 2
Skin Irritation, category 2
STOT, single exposure, category 3, RTI

2.2 Label elements

Symbol(s) of Product



Signal Word

Danger

Named Chemicals on Label

ETHYL BENZENE, METHYL PROPYL KETONE, TERT-BUTYL ACETATE, MICROCRYSTALLINE SILICA, AROMATIC HYDROCARBON

HAZARD STATEMENTS

| | | |
|---|---------|--|
| Flammable Liquid, category 2 | H225 | Highly flammable liquid and vapour. |
| Skin Irritation, category 2 | H315 | Causes skin irritation. |
| Eye Irritation, category 2 | H319 | Causes serious eye irritation. |
| Acute Toxicity, Inhalation, category 4 | H332 | Harmful if inhaled. |
| STOT, single exposure, category 3, RTI | H335 | May cause respiratory irritation. |
| Carcinogenicity, category 1A | H350-1A | May cause cancer. |
| Hazardous to the aquatic environment, Chronic, category 2 | H411 | Toxic to aquatic life with long lasting effects. |

PRECAUTION PHRASES

| | |
|--------------|---|
| P201 | Obtain special instructions before use. |
| P202 | Do not handle until all safety precautions have been read and understood. |
| P210 | Keep away from heat/sparks/open flames/hot surfaces. - No smoking. |
| P235 | Keep cool. |
| 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. |
| P284 | Wear respiratory protection. |
| 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 |
| P332+313 | If skin irritation occurs: Get medical advice/attention. |
| P391 | Collect spillage. |
| P403+233 | Store in a well-ventilated place. Keep container tightly closed. |

ADDITIONAL INFORMATION

| | |
|----------------------|--|
| Note_P 64742-95-6 | Note P : The classification as a carcinogen or mutagen need not apply; the substance, CAS 64742-95-6, contains less than 0,1 % w/w benzene |
|----------------------|--|

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

| <u>Name According to EEC</u> | <u>EINEC No.</u> | <u>CAS-No.</u> | <u>%</u> | <u>Classifications</u> | |
|------------------------------|------------------|----------------|------------|------------------------|--|
| LIMESTONE | 215-279-6 | 1317-65-3 | 25 - <50 | H315-319 | Eye Irrit. 2, Skin Irrit. 2 |
| TITANIUM DIOXIDE | 236-675-5 | 13463-67-7 | 25 - <50 | | |
| TERT-BUTYL ACETATE | 208-760-7 | 540-88-5 | 10 - <25 | H225-332-335-336 | Acute Tox. 4 Inhalation, Flam. Liq. 2, STOT SE 3 NE, STOT SE 3 RTI |
| TALC | 238-877-9 | 14807-96-6 | 2.5 - <10 | | |
| METHYL PROPYL KETONE | 203-528-1 | 107-87-9 | 2.5 - <10 | H225-302-315-319-335 | Acute Tox. 4 Oral, Eye Irrit. 2, Flam. Liq. 2, Skin Irrit. 2, STOT SE 3 RTI |
| AROMATIC HYDROCARBON | 265-199-0 | 64742-95-6 | 2.5 - <10 | H226-304-331-350 | Acute Tox. 3 Inhalation, Asp. Tox. 1, Carc. 1A, Flam. Liq. 3 |
| ZINC PHOSPHATE | 231-944-3 | 7779-90-0 | 2.5 - <10 | H400-410 | Aquatic Acute 1, Aquatic Chronic 1 |
| MICROCRYSTALLINE SILICA | 238-878-4 | 14808-60-7 | 1.0 - <2.5 | H350-372 | Carc. 1A, STOT RE 1 |
| ETHYL BENZENE | 202-849-4 | 100-41-4 | 0.1 - <1.0 | H225-304-332-373-412 | Acute Tox. 4 Inhalation, Aquatic Chronic 3, Asp. Tox. 1, Flam. Liq. 2, STOT RE 2 |

CAS-No.

1317-65-3
13463-67-7
540-88-5
14807-96-6
107-87-9
64742-95-6
7779-90-0
14808-60-7
100-41-4

M-Factors

Remarks: 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

Harmful if swallowed. Irritating to eyes and skin. Risk of serious damage to the lungs (by aspiration). Vapours may cause drowsiness and dizziness.

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: Flammable liquid. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Vapors may travel to areas away from work site before igniting/flashing back to vapor source. Provide adequate ventilation. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Electrical installations / working materials must comply with the technological safety standards. Wear shoes with conductive soles.

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. Cool containers / tanks with water spray. Flammable.

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

No 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 use sparking tools. 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)

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)

| <u>Name</u> | <u>CAS-No.</u> | <u>ACGIH TWA</u> | <u>ACGIH STEL</u> | <u>ACGIH Ceiling</u> |
|-------------------------|----------------|------------------|-------------------|----------------------|
| LIMESTONE | 1317-65-3 | N/E | N/E | N/E |
| TITANIUM DIOXIDE | 13463-67-7 | 10 mg/m3 | N/E | N/E |
| TERT-BUTYL ACETATE | 540-88-5 | 50 PPM | 150 PPM | N/E |
| TALC | 14807-96-6 | 2 MGM3 | N/E | N/E |
| METHYL PROPYL KETONE | 107-87-9 | 200.0 PPM | 150 PPM | N/E |
| AROMATIC HYDROCARBON | 64742-95-6 | 300.0 PPM | N/E | N/E |
| ZINC PHOSPHATE | 7779-90-0 | N/E | N/E | N/E |
| MICROCRYSTALLINE SILICA | 14808-60-7 | 0.025 MGM3 | N/E | N/E |
| ETHYL BENZENE | 100-41-4 | 20 PPM | 125 ppm | |

| <u>Name</u> | <u>CAS-No.</u> | <u>OSHA PEL</u> | <u>OSHA STEL</u> |
|-------------------------|----------------|--|-------------------|
| LIMESTONE | 1317-65-3 | 5 MGM3 15 MGM3 5 MGM3 15 MGM3 5 MGM3 15 MGM3 | N/E |
| TITANIUM DIOXIDE | 13463-67-7 | 15 MGM3 | N/E |
| TERT-BUTYL ACETATE | 540-88-5 | 950 MGM3, 200 PPM | N/E |
| TALC | 14807-96-6 | 0.1 MGM3 | N/E |
| METHYL PROPYL KETONE | 107-87-9 | 700 MGM3, 200 PPM | 875 MGM3, 250 PPM |
| AROMATIC HYDROCARBON | 64742-95-6 | 500.0 PPM | N/E |
| ZINC PHOSPHATE | 7779-90-0 | N/E | N/E |
| MICROCRYSTALLINE SILICA | 14808-60-7 | 0.05 MGM3 | N/E |
| ETHYL BENZENE | 100-41-4 | 435 MGM3, 100 PPM | 545 MGM3, 125 PPM |

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. Ensure adequate ventilation, especially in confined

areas.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

| | |
|--|------------------------------|
| Appearance: | Viscous Liquid |
| Physical State | Liquid |
| Odor | Aromatic |
| Odor threshold | N/D |
| pH | N/D |
| Melting point / freezing point (°C) | N/D |
| Boiling point/range (°C) | 176 F (80 C) - 424 F (218 C) |
| Flash Point (°C) | 52F (11C) |
| Evaporation rate | Slower Than Ether |
| Flammability (solid, gas) | Not determined |
| Upper/lower flammability or explosive limits | 0.9 - 11.2 |
| 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 |
| Explosive properties | Not determined |
| Oxidising properties | Not determined |

9.2 Other information

| | |
|--------------------------|------|
| VOC Content g/l: | 276 |
| Specific Gravity (g/cm3) | 1.39 |

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 productsCarbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), 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:

| <u>CAS-No.</u> | <u>Chemical Name</u> | <u>Oral LD50</u> | <u>Dermal LD50</u> | <u>Vapor LC50</u> | <u>Gas LC50</u> | <u>Dust/Mist LC50</u> |
|----------------|-------------------------|-------------------------|---------------------------|----------------------------------|-----------------|-----------------------|
| 1317-65-3 | LIMESTONE | 5,000 mg/kg, rat, oral | No Information | No Information | No Information | No Information |
| 13463-67-7 | TITANIUM DIOXIDE | 25000 mg/kg, oral (rat) | No Information | No Information | No Information | No Information |
| 540-88-5 | TERT-BUTYL ACETATE | 3160 mg/kg, oral, rat | Not Available | 4000 ppm/6 hours, rat inhalation | 0.000 | 0.000 |
| 14807-96-6 | TALC | No Information | No Information | No Information | No Information | No Information |
| 107-87-9 | METHYL PROPYL KETONE | Not Available | | Not Available | 0.000 | 0.000 |
| 64742-95-6 | AROMATIC HYDROCARBON | 2001 mg/kg, rat | 2001 mg/kg, rabbit | 9 mg/l, rat, 4hr | 0.000 | 0.000 |
| 7779-90-0 | ZINC PHOSPHATE | 3846mg/kg, oral rat | Not Available | Not Available | 0.000 | 11.54 mg/l |
| 14808-60-7 | MICROCRYSTALLINE SILICA | 22500 mg/kg | No Information | No Informaiton | No Information | No Information |
| 100-41-4 | ETHYL BENZENE | 3500 mg/kg rat, oral | >5000 mg/l, dermal rabbit | 17.2 mg/L Inh, Rat, 4Hr | No Information | No Information |

Additional Information:

This product may contain Ethyl Benzene, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. Constituents of this product may include crystalline silica which, if inhalable, may cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group 1 carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. This classification is relevant when exposed to Quartz (silicon dioxide) in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities. Constituents may also include abestiform or non-asbestiform tremolite or other silicates as impurities, and above dei minimus exposure to these impurities in inhalable form may be carcinogenic or cause other serious lung problems.

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

| <u>CAS-No.</u> | <u>Chemical Name</u> | <u>EC50 48hr</u> | <u>IC50 72hr</u> | <u>LC50 96hr</u> |
|----------------|-------------------------|-------------------------------------|--|-------------------------------------|
| 1317-65-3 | LIMESTONE | 1,000 mg/l | 200 mg/l | 10,000 mg/l |
| 13463-67-7 | TITANIUM DIOXIDE | No information | No information | No information |
| 540-88-5 | TERT-BUTYL ACETATE | No information | No information | No information |
| 14807-96-6 | TALC | No information | No information | No information |
| 107-87-9 | METHYL PROPYL KETONE | No information | No information | No information |
| 64742-95-6 | AROMATIC HYDROCARBON | No information | No information | No information |
| 7779-90-0 | ZINC PHOSPHATE | 0.04 - 0.86 mg/l (Daphnia Magna) | 0.136 - 0.150 mg/l (Selenastrum capricornutum) | 0.14 - 0.26 mg/l (Rainbow Trout) |
| 14808-60-7 | MICROCRYSTALLINE SILICA | No information | No information | No information |
| 100-41-4 | ETHYL BENZENE | 1.8 mg/l (Daphnia Magna) | 4.6 mg/l (Green Algae) | 4.2 mg/l (Rainbow Trout) |

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 1263 |
| 14.2 | UN proper shipping name | Paint |
| | Technical name | N/A |
| 14.3 | Transport hazard class(es) | 3 |
| | Subsidiary shipping hazard | N/A |
| 14.4 | Packing group | II |
| 14.5 | Environmental hazards | Unknown |
| 14.6 | Special precautions for user | Unknown |
| | EmS-No.: | F-E, S-E |
| 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:

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

Flammable (gases, aerosols, liquids, or solids), Carcinogenicity, Acute Toxicity (any route of exposure), Skin Corrosion or Irritation, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure)

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:

| <u>Chemical Name</u> | <u>CAS-No.</u> | <u>%</u> |
|---------------------------|----------------|----------|
| METHYL ISOBUTYL KETONE | 108-10-1 | 0.38 |
| ETHYL BENZENE | 100-41-4 | 0.31 |
| COBALT 2-ETHOXYLHEXANOATE | 136-52-7 | 0.09 |
| ZINC OXIDE | 1314-13-2 | 0.04 |

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.**

ALKYD RESIN

TRADE SECRET

Pennsylvania Right-To-Know

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

Chemical Name**CAS-No.**ALKYD RESIN
HEMATITETRADE SECRET
1317-60-8**CALIFORNIA PROPOSITION 65**

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

International Regulations: As follows -*** Canadian DSL:**

No Information

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. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H350 | May cause cancer. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very 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.

