



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** 199SB1NL
- Product Name:** AMERICAN SU FC SERIES URETHANE CATALYST **Revision Date:** 10/30/2018
- 1.2 Relevant identified uses of the substance or mixture and uses advised against** Component of multicomponent industrial coatings - Industrial use. **Supersedes Date:** New SDS
- 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

Acute Toxicity, Inhalation, category 4
Hazardous to the aquatic environment, Chronic, category 2
Eye Irritation, category 2
Flammable Liquid, category 3
Respiratory Sensitizer, category 1
STOT, single exposure, category 3, NE
STOT, single exposure, category 3, RTI
Skin Irritation, category 2
Skin Sensitizer, category 1

2.2 Label elements

Symbol(s) of Product



Signal Word

danger

Named Chemicals on Label

ETHYL BENZENE, N-BUTYL ACETATE, HEXAMETHYLENE DIISOCYANATE, HOMOPOLYMER OF HDI, AROMATIC HYDROCARBON

HAZARD STATEMENTS

| | | |
|---|------|--|
| Flammable Liquid, category 3 | H226 | Flammable liquid and vapour. |
| 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. |
| Respiratory Sensitizer, category 1 | H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| STOT, single exposure, category 3, RTI | H335 | May cause respiratory irritation. |
| STOT, single exposure, category 3, NE | H336 | May cause drowsiness or dizziness. |
| Hazardous to the aquatic environment, Chronic, category 2 | H411 | Toxic to aquatic life with long lasting effects. |

PRECAUTION PHRASES

| | |
|--------------|---|
| P210 | Keep away from heat/sparks/open flames/hot surfaces. - No smoking. |
| 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. |
| P285 | In case of inadequate ventilation 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. |
| P333+313 | If skin irritation or rash occurs: Get medical advice/attention. |
| P341 | If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| P342+311 | If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. |
| P391 | Collect spillage. |
| P403+233 | Store in a well-ventilated place. Keep container tightly closed. |

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>CAS-No.</u> | <u>Chemical Name</u> | <u>%</u> |
|----------------|----------------------------|------------|
| 28182-81-2 | HOMOPOLYMER OF HDI | 50 - <75 |
| 123-86-4 | N-BUTYL ACETATE | 10 - <25 |
| 64742-95-6 | AROMATIC HYDROCARBON | 10 - <25 |
| 822-06-0 | HEXAMETHYLENE DIISOCYANATE | 0.1 - <1.0 |
| 100-41-4 | ETHYL BENZENE | 0.1 - <1.0 |

| <u>CAS-No.</u> | <u>GHS Symbols</u> | <u>GHS Hazard Statements</u> | <u>M-Factors</u> |
|----------------|-------------------------|----------------------------------|------------------|
| 28182-81-2 | GHS07-GHS09 | H317-332-335-411 | 0 |
| 123-86-4 | GHS02-GHS07 | H226-336 | 0 |
| 64742-95-6 | GHS02-GHS07-GHS08-GHS09 | H226-304-315-319-332-335-336-411 | 0 |
| 822-06-0 | GHS06-GHS08 | H302-315-317-319-330-334-335 | 0 |
| 100-41-4 | GHS02-GHS07-GHS08 | H225-304-315-319-332-373-412 | 0 |

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. 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

UNUSUAL FIRE AND EXPLOSION HAZARDS: Humid air and/or water will produce carbon dioxide which will pressurize the container. 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.

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. Cool containers / tanks with water spray. Flammable.

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 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. Exposure to moisture.

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)

| <u>Name</u> | <u>CAS-No.</u> | <u>ACGIH TWA</u> | <u>ACGIH STEL</u> | <u>ACGIH Ceiling</u> |
|----------------------------|----------------|------------------|-------------------|----------------------|
| HOMOPOLYMER OF HDI | 28182-81-2 | N/E | N/E | N/E |
| N-BUTYL ACETATE | 123-86-4 | 50 PPM | 150 PPM | N/E |
| AROMATIC HYDROCARBON | 64742-95-6 | 300.0 PPM | N/E | N/E |
| HEXAMETHYLENE DIISOCYANATE | 822-06-0 | 0.005 PPM | 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> |
|--------------------|----------------|-----------------|------------------|
| HOMOPOLYMER OF HDI | 28182-81-2 | N/E | N/E |

| | | | |
|----------------------------|------------|-----------------------|---------------|
| N-BUTYL ACETATE | 123-86-4 | 710 MGM3, 150 950 PPM | MGM3, 200 PPM |
| AROMATIC HYDROCARBON | 64742-95-6 | 500.0 PPM | N/E |
| HEXAMETHYLENE DIISOCYANATE | 822-06-0 | N/E | N/E |
| ETHYL BENZENE | 100-41-4 | 435 MGM3, 100 545 PPM | MGM3, 125 PPM |

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. Ensure adequate ventilation, especially in confined areas.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

| | |
|---|------------------------------|
| Appearance: | Viscous Liquid, Clear |
| Physical State | Liquid |
| Odor | Aromatic |
| Odor threshold | Not Determined |
| pH | Not Determined |
| Melting point / freezing point (°C) | Not Determined |
| Boiling point/range | 176 F (80 C) - 545 F (285 C) |
| Flash Point | 79°F (26°C) |
| Evaporation rate | Slower Than Ether |
| Flammability (solid, gas) | N/D |
| Upper/lower flammability or explosive limits | 0.7 - 25.1 |
| Vapour Pressure, mmHg | Not Determined |
| Vapour density | Heavier than Air |
| Relative density | N/D |
| Solubility in / Miscibility with water | Not Determined |
| Partition coefficient: n-octanol/water | N/D |

| | |
|---------------------------------------|----------------|
| Auto-ignition temperature (°C) | N/D |
| Decomposition temperature (°C) | N/D |
| Viscosity | Not Determined |
| Explosive properties | N/D |
| Oxidising properties | N/D |

9.2 Other information

| | |
|--|------|
| VOC Content g/l: | 373 |
| Specific Gravity (g/cm³) | 1.03 |

10. Stability and Reactivity

10.1 Reactivity

Water reactive

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. Exposure to moisture.

10.5 Incompatible materials

Never allow product to get in contact with water during storage. Water in the container will lead to increased pressure and risk of explosion. Strong oxidizing agents.

10.6 Hazardous decomposition products

Carbon 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: No information available.

Corrosivity: No information available.

Sensitization: No information available.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

Toxicity for reproduction: No information available.

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> |
|----------------|-------------------------------|---------------------------|------------------------------|--|-----------------|-----------------------|
| 28182-81-2 | HOMOPOLYMER OF HDI | 5000 mg/kg, oral, rat | Not Available | 390 mg/m ³ , inhalation, rat | 0.000 | 0.000 |
| 123-86-4 | N-BUTYL ACETATE | 10760 mg/kg, rat, oral | 14112 mg/kg (rabbit) | 21 mg/l/4/h, Inh. rat | | |
| 64742-95-6 | AROMATIC HYDROCARBON | 4700 mg/kg, oral, rat | Not Available | 3670 ppm/8 hours, rat, inhalation | 0.000 | 0.000 |
| 822-06-0 | HEXAMETHYLENE DIISOCYANATE | 710 mg/kg, oral rat | >7000 mg/kg, dermal, rat | 23 ppm / 4 hrs | 0.000 | 0.000 |
| 100-41-4 | ETHYL BENZENE | 3500 mg/kg rat, oral | >5000 mg/l, dermal rabbit | 17.2 mg/L Inh, Rat, 4Hr | 0.000 | 0.000 |

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.

12. Ecological Information

12.1 Toxicity:

EC50 48hr (Daphnia): No information available.

IC50 72hr (Algae): No information available.

LC50 96hr (fish): No information available.

12.2 Persistence and degradability: No information available.

12.3 Bioaccumulative potential: No information available.

- 12.4 Mobility in soil:** No information available.
- 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:** No information available.

| <u>CAS-No.</u> | <u>Chemical Name</u> | <u>EC50 48hr</u> | <u>IC50 72hr</u> | <u>LC50 96hr</u> |
|----------------|----------------------------|--------------------------|--------------------------|--------------------------|
| 28182-81-2 | HOMOPOLYMER OF HDI | >100 mg/l (Zebra Fish) | No information | >100 mg/l (Zebra Fish) |
| 123-86-4 | N-BUTYL ACETATE | 44 mg/l (Daphnia magna) | 674.7 mg/L (Green Algae) | 18 mg/l (Fathead minnow) |
| 64742-95-6 | AROMATIC HYDROCARBON | No information | No information | No information |
| 822-06-0 | HEXAMETHYLENE DIISOCYANATE | 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. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport Information

- 14.1 UN number** UN1263
- 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** III
- 14.5 Environmental hazards** No information available.
- 14.6 Special precautions for user** No information available.
- EmS-No.:** F-E, S-E
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code** No information available.

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:

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

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> |
|----------------------------|----------------|
| HEXAMETHYLENE DIISOCYANATE | 822-06-0 |
| ETHYL BENZENE | 100-41-4 |

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:

| <u>Chemical Name</u> | <u>CAS-No.</u> |
|----------------------|----------------|
|----------------------|----------------|

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.

No NJ Right-To-Know components exist in this product.

Pennsylvania Right-To-Know

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

No PA Right-To-Know components exist in this product.

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. |
| H330 | Fatal if inhaled. |
| H332 | Harmful if inhaled. |

| | |
|------|--|
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| 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.