

Safety Data Sheet

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

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

1.1Product Identifier0986B1NLRevision Date:02/15/2022

Supercedes Date:

04/15/2020

Product Name: CARBOGUARD 890

PART B

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 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 3
Carcinogenicity, category 1A
Serious Eye Damage, category 1
Flammable Liquid, category 2
Reproductive Toxicity, category 2
STOT, repeated exposure, category 1
Skin Irritation, category 2
Skin Sensitizer, category 1

2.2 Label elements

Symbol(s) of Product



Signal Word

Danger

Named Chemicals on Label

N-BUTANOL, ORTHO-XYLENE, ETHYL BENZENE, BENZYL ALCOHOL, PARA-XYLENE, META-XYLENE, TOLUENE, ISOPHORONEDIAMINE, MICROCRYSTALLINE SILICA

HAZARD STATEMENTS

Flammable Liquid, category 2	H225	Highly flammable liquid and vapour.
Skin Irritation, category 2	H315	Causes skin irritation.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Serious Eye Damage, category 1	H318	Causes serious eye damage.
Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
Carcinogenicity, category 1A	H350-1A	May cause cancer.
Reproductive Toxicity, category 2	H361	Suspected of damaging fertility or the unborn child.
STOT, repeated exposure, category 1	H372	Causes damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment, Chronic, category 3	H412	Harmful 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.
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.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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
P314	Get medical advice/attention if you feel unwell.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
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

Name According to EEC	EINEC No.	C No. CAS-No.	<u>%</u>	<u>Classifications</u>	
MICROCRYSTALLINE SILICA	238-878-4	14808-60-7	50 - <75	H350-372	Carc. 1A, STOT RE 1
BENZYL ALCOHOL	202-859-9	100-51-6	2.5 - <10	H302-312-319-332 Acute Tox. 4 Derma Tox. 4 Inhalation, A Oral, Eye Irrit. 2	
ISOPHORONEDIAMIN E	220-666-8	2855-13-2	2.5 - <10	<10 H302-312-314-317-412 Acute Tox. 4 Tox. 4 Oral, A 3, Skin Corr.	
META-XYLENE	203-576-3	108-38-3	2.5 - <10	H312-315-332	
TOLUENE	203-625-9	108-88-3	2.5 - <10	H225-304-315-319-336-361-373	
ISOPROPANOL	200-661-7	67-63-0	2.5 - <10	H225-319-336	
ETHYL ALCOHOL	200-578-6	64-17-5	2.5 - <10	H225	
AROMATIC HYDROCARBON	265-199-0	64742-95-6	2.5 - <10	H226-304-315-319-332-335-336 -411	
MODIFIED UREA- FORMALDEHYDE RESIN		PROPRIETA RY	1.0 - <2.5	2.5 H413	
PARA-XYLENE	203-396-5	106-42-3	1.0 - <2.5	H304-312-315-332-335-371	
ETHYL BENZENE	202-849-4	100-41-4	1.0 - <2.5	5 H225-304-315-319-332-351-373 Acute Tox. 4 Inhalation, -412 Aquatic Chronic 3, Asp. 7 1, Carc. 2, Eye Irrit. 2, Fla Liq. 2, Skin Irrit. 2, STOT	
N-BUTANOL	200-751-6	71-36-3	1.0 - <2.5	H226-302-315-318-335-336	
ORTHO-XYLENE	202-422-2	95-47-6	1.0 - <2.5	H312-315-332	

CAS-No.	M-Factors
14808-60-7	0
100-51-6	0
2855-13-2	0
108-38-3	0
108-88-3	0
67-63-0	0
64-17-5	0
64742-95-6	0
PROPRIETARY	0
106-42-3	0
100-41-4	0

71-36-3 0 95-47-6 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. 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: No Information

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)

No specific advice for end use available.

8. Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with Occupational Exposure Limits (US)

Name	CAS-No.	ACGIH TWA	ACGIH STEL	ACGIH Ceiling
MICROCRYSTALLINE SILICA	14808-60-7	0.025 MGM3	N/E	N/E
BENZYL ALCOHOL	100-51-6	N/E	N/E	N/E
ISOPHORONEDIAMINE	2855-13-2	N/E	N/E	N/E
META-XYLENE	108-38-3	100 PPM	150 PPM	N/E
TOLUENE	108-88-3	20 PPM	N/E	N/E
ISOPROPANOL	67-63-0	200 PPM	400 PPM	N/E
ETHYL ALCOHOL	64-17-5	N/E	1000 PPM	N/E
AROMATIC HYDROCARBON	64742-95-6	300.0 PPM	N/E	N/E
MODIFIED UREA-FORMALDEHYDE RESIN	I PROPRIETARY	N/E	N/E	N/E
PARA-XYLENE	106-42-3	100 PPM	150 PPM	N/E
ETHYL BENZENE	100-41-4	20 PPM	125 ppm	
N-BUTANOL	71-36-3	20 PPM	N/E	N/E
ORTHO-XYLENE	95-47-6	100 PPM	150 PPM	N/E

Name	CAS-No.	OSHA PEL	OSHA STEL
MICROCRYSTALLINE SILICA	14808-60-7	0.05 MGM3	N/E

BENZYL ALCOHOL	100-51-6	N/E	N/E
ISOPHORONEDIAMINE	2855-13-2	N/E	N/E
META-XYLENE	108-38-3	100.00 PPM	N/E
TOLUENE	108-88-3	200 ppm 56	0 MGM3, 150 PPM
ISOPROPANOL	67-63-0	980 MGM3, 400 PPM1	225 MGM3, 500 PPM
ETHYL ALCOHOL	64-17-5	1900 MGM3, 1000 PPM	N/E
AROMATIC HYDROCARBON	64742-95-6	500.0 PPM	N/E
MODIFIED UREA-FORMALDEHYDE RESIN	PROPRIETARY	N/E	N/E
PARA-XYLENE	106-42-3	100.00 PPM	N/E
ETHYL BENZENE	100-41-4	435 MGM3, 100 PP 5 /4	5 MGM3, 125 PPM
N-BUTANOL	71-36-3	300.0 MG/M3	N/E
ORTHO-XYLENE	95-47-6	100.00 PPM	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: 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: Ensure that eyewash stations and safety showers are close to the workstation location. **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 Solvent
Odor threshold N/D

pH N/D

Melting point / freezing point (°C) N/D

Boiling point/range (°C) 149 F (65 C) - 500 F (260 C)

Flash Point (°C) 71F (21C)

Evaporation rate Slower than Ether

Flammability (solid, gas)

Not determined

Upper/lower flammability or explosive

limits

0.5 - 36.0

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

Auto-ignition temperature (°C)

Not determined

Decomposition temperature (°C)

Not determined

Viscosity Unknown

Explosive properties Not determined

Oxidising properties Not determined

9.2 Other information

VOC Content g/l: 214
Specific Gravity (g/cm3) 1.6

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: Skin Corrosion, category 1

Sensitization: Skin Sensitizer, category 1

Repeated dose toxicity: Unknown

Carcinogenicity: Carcinogenicity, category 1A

Mutagenicity: Unknown

Toxicity for reproduction: Reproductive Toxicity, category 2

STOT-single exposure: Unknown

STOT-repeated exposure: STOT, repeated exposure, category 1

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
14808-60-7	MICROCRYSTALLINE SILICA	22500 mg/kg	Not Available	Not Available	0.000	0.000
100-51-6	BENZYL ALCOHOL	1230 mg/kg rat, oral	2000 mg/kg, dermal, rabbit	4176 mg/l / 4h, Inh, Rat		
2855-13-2	ISOPHORONEDIAMINE	500 mg/kg oral		Not Available		
108-38-3	META-XYLENE	Not Available	Not Available	Not Available	0.000	0.000
108-88-3	TOLUENE	5000 mg/kg rat oral	12267 mg/kg, dermal, rabbit	8000 ppm/4 hrs, rat, inhalation	0.000	0.000
67-63-0	ISOPROPANOL	4720 mg/kg rat, oral	12800 mg/kg, dermal, rabbit	22500 ppm/8hrs rat, inhalation	0.000	0.000
64-17-5	ETHYL ALCOHOL	7060 mg/kg, oral, rat		20000 ppm/10 hrs, rat, inhalation	0.000	0.000
64742-95-6	AROMATIC HYDROCARBON	4700 mg/kg, oral, rat	Not Available	3670 ppm/8 hours, rat, inhalation	0.000	0.000
PROPRIETA Y	ARMODIFIED UREA- FORMALDEHYDE RESIN	5000 mg/kg, oral, rat		Not Available	0.000	0.000

106-42-3	PARA-XYLENE	Not Available	Not Available	Not Available	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
71-36-3	N-BUTANOL	790 mg/kg rat, oral	3400 mg/kg, dermal, rabbit	8000 ppm / 4hrs rat, inhalation	0.000	0.000
95-47-6	ORTHO-XYLENE	Not Available	Not Available	Not Available	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. 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
Unknown
Unknown
Unknown
Unknown
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 The product does not meet the criteria for PBT/VPvB in accordance with Annex XIII.

assessment:

12.6 Other adverse effects: Unknown

CAS-No.	Chemical Name	EC50 48hr	IC50 72hr	LC50 96hr
14808-60-7	MICROCRYSTALLINE SILICA	No information	No information	No information
100-51-6	BENZYL ALCOHOL	230 mg/l (Daphnia)	700 mg/l (Algae)	10 mg/l (Fish)
2855-13-2	ISOPHORONEDIAMINE	No information	No information	No information
108-38-3	META-XYLENE	No information	No information	No information
108-88-3	TOLUENE	6 mg/l (Daphnia magna)	12.5 mg/L (Algae)	5.8 mg/L (Fish)
67-63-0	ISOPROPANOL	13299 mg/l (Daphnia Magna)	>1000 m/gL (desmodesmus subspicatus)	9640 mg/L (pimphales promelas)
64-17-5	ETHYL ALCOHOL	2 mg/l (Daphnia Magna)	No information	42 mg/l (fish)
64742-95-6	AROMATIC HYDROCARBON	No information	No information	No information
PROPRIETA Y	RMODIFIED UREA-FORMALDEHYDE RESIN	No information	No information	No information
106-42-3	PARA-XYLENE	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)
71-36-3	N-BUTANOL	1328 mg/l (Daphnia magna)	225 mg/l (Algae)	1376 mg/l (Fathead minnow)

95-47-6 ORTHO-XYLENE 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	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	Unknown

15. Regulatory Information

U.S. Federal Regulations: As follows -

of MARPOL 73/78 and the IBC code

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), Carcinogenicity, Acute Toxicity (any route of exposure), Reproductive toxicity, Skin Corrosion or Irritation, Respiratory or Skin Sensitization, 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>	CAS-No.	<u>%</u>
META-XYLENE	108-38-3	3.32
TOLUENE	108-88-3	3.32
ISOPROPANOL	67-63-0	3.24
PARA-XYLENE	106-42-3	1.45
ETHYL BENZENE	100-41-4	1.4
N-BUTANOL	71-36-3	1.07
ORTHO-XYLENE	95-47-6	1.05

^{15.1} Safety, health and environmental regulations/legislation for the substance or mixture:

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.

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%.

Chemical Name CAS-No. AMINE ADDUCT CONFIDENTIAL

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.

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.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.
H351	Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H371 May cause damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.

Taxis to a quality life with long leating effects.

H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.
 H413 May cause long lasting harmful effects to aquatic life.

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.