

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	1027A1NL	Revision Date:	07/12/2022
	Product Name:	CARBOGUARD 690 PART A	Supercedes Date:	04/07/2021
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:	Beebe, Hayli - regulatory@carboline.cor	n	
1.4	Emergency telephone number:	CHEMTREC 1-800-424-9300 (Inside US CHEMTREC +1 703 5273887 (Outside L HEALTH - Pittsburgh Poison Control 1-4	(SÌ	

2. Hazard Identification

2.1 Classification of the substance or mixture

Hazardous to the aquatic environment, Chronic, category 3 Carcinogenicity, category 1A Eye Irritation, category 2 Flammable Liquid, category 3 Reproductive Toxicity, category 1A Skin Irritation, category 2 Skin Sensitizer, category 1

2.2 Label elements

Symbol(s) of Product



Signal Word

Danger

Named Chemicals on Label

MICROCRYSTALLINE SILICA, BISPHENOL A EPOXY RESIN

HAZARD STATEMENTS

Flammable Liquid, category 3 Skin Irritation, category 2 Skin Sensitizer, category 1 Eye Irritation, category 2 Carcinogenicity, category 1A Reproductive Toxicity, category 1A Hazardous to the aquatic environment, Chronic, category 3 PRECAUTION PHRASES	H226 H315 H317 H319 H350-1A H360-1A H412	Flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause cancer. May damage fertility or the unborn child. Harmful to aquatic life with long lasting effects.
	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.
	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.
	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.
	P308+313 P308+P313 P333+313 P403+233	IF exposed or concerned: Get medical advice/attention IF exposed or concerned: Get medical advice/attention If skin irritation or rash occurs: Get medical advice/attention. 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

Name According to EEC	EINEC No.	CAS-No.	<u>%</u>	Classifications
TITANIUM DIOXIDE	236-675-5	13463-67-7	25 - <50	

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BISPHENOL A EPOXY RESIN	500-033-5	25068-38-6	10 - <25	H315-317-319-411	Aquatic Chronic 2, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1
POLYSTYRENE	500-008-9	9003-53-6	10 - <25	H360	
TOLUENE	203-625-9	108-88-3	2.5 - <10	H225-304-315-319-332-335-336 -361-370-412	Acute Tox. 4 Inhalation, Aquatic Chronic 3, Asp. Tox. 1, Eye Irrit. 2, Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 1, STOT SE 3 NE, STOT SE 3 RTI
META-XYLENE	203-576-3	108-38-3	1.0 - <2.5	H312-315-332	
ETHYL BENZENE	202-849-4	100-41-4	0.1 - <1.0	H225-304-315-319-332-351-373 -412	Acute Tox. 4 Inhalation, Aquatic Chronic 3, Asp. Tox. 1, Carc. 2, Eye Irrit. 2, Flam. Liq. 2, Skin Irrit. 2, STOT RE 2
MICROCRYSTALLINE	238-878-4	14808-60-7	0.1 - <1.0	H350-372	Carc. 1A, STOT RE 1

CAS-No.	M-Factors
13463-67-7	0
25068-38-6	0
9003-53-6	0
108-88-3	0
108-38-3	0
100-41-4	0
14808-60-7	0
Remarks:	CAS No 13463-67-7: Note 10 CAS No. 25068-38-6 identified as CAS No. 1675-54-3, EC No. 216-823-5 under REACH Registration

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
TITANIUM DIOXIDE	13463-67-7	10 mg/m3	N/E	N/E
BISPHENOL A EPOXY RESIN	25068-38-6	N/E	N/E	N/E
POLYSTYRENE	9003-53-6	N/E	N/E	N/E

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TOLUENE META-XYLENE ETHYL BENZENE MICROCRYSTALLINE SILICA	108-88-3 108-38-3 100-41-4 14808-60-7	20 PPM 100 PPM 20 PPM 0.025 MGM3	N/E N/E 150 PPM N/E 125 ppm N/E N/E N/E
Name	CAS-No.	<u>OSHA PEL</u>	OSHA STEL
TITANIUM DIOXIDE	13463-67-7	15 MGM3	N/E
BISPHENOL A EPOXY RESIN	25068-38-6	N/E	N/E
POLYSTYRENE	9003-53-6	N/E	N/E
TOLUENE	108-88-3	200 ppm	560 MGM3, 150 PPM
META-XYLENE	108-38-3	100.00 PPM	N/E
ETHYL BENZENE	100-41-4	435 MGM3, 10	0 PP 54 5 MGM3, 125 PPM
MICROCRYSTALLINE SILICA	14808-60-7	0.05 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: 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, Various Colors
Physical State	Liquid
Odor	Ероху
Odor threshold	N/D
рН	N/D
Melting point / freezing point (°C)	N/D
Boiling point/range (°C)	176 F (80 C) - 513 F (267 C)
Flash Point (°C)	91F (33C)
Evaporation rate	Slower Than Ether

	Flammability (solid, gas)	Not determined
	Upper/lower flammability or explosive limits	0.9 - 7.1
	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	Unknown
	Explosive properties	Not determined
	Oxidising properties	Not determined
9.2	Other information	
	VOC Content g/I:	170
	Specific Gravity (g/cm3)	1.94

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.

11. Toxicological Information

	3	
.1	Information on toxicological effe	octs
	Oral LD50:	N/D
	Inhalation LC50:	N/D
	Irritation:	Eye Irritation and Skin Irritation, category 2
	Corrosivity:	Unknown
	Sensitization:	Skin Sensitizer, category 1
	Repeated dose toxicity:	Unknown
	Carcinogenicity:	Carcinogenicity, category 1A
	Mutagenicity:	Unknown
	Toxicity for reproduction:	Reproductive Toxicity, category 1A
	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	<u>Gas LC50</u>	<u>Dust/Mist</u> LC50
13463-67-7	TITANIUM DIOXIDE	25000 mg/kg, oral (rat)	Not Available	Not Available	No Information	No Information
25068-38-6	BISPHENOL A EPOXY RESIN	11400 mg/kg, rat, oral	23000 mg/kg, dermal, rabbit	>20 mL/kg skin, sensitizer		
9003-53-6	POLYSTYRENE	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
108-38-3	META-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
14808-60-7	MICROCRYSTALLINE SILICA	22500 mg/kg	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.	Ecol	ogical Information						
12.1	Toxici	ty:						
	EC!	50 48hr (Daphnia):	Unkno	wn				
	IC5	0 72hr (Algae):	Unkno	wn				
	LC5	50 96hr (fish):	Unkno	wn				
12.2	Persis	tence and degradability:	Unkno	wn				
12.3	Bioaco	cumulative potential:	Unkno	wn				
12.4	Mobili	ty in soil:	Unkno	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:	Unkno	wn				
<u>CAS-1</u>	<u>No.</u>	Chemical Name		<u>EC50 48hr</u>	<u>IC50 72hr</u>	<u>LC50 96hr</u>		
13463	8-67-7	TITANIUM DIOXIDE		No information	No information	No information		
25068	8-38-6	BISPHENOL A EPOXY RESIN		2.1 mg/l (daphnia)	11 mg/l (algae)	1.3 mg/l (fish)		
9003-	53-6	POLYSTYRENE		No information	No information	No information		
108-8	8-3	TOLUENE		6 mg/l (Daphnia magna)	12.5 mg/L (Algae)	5.8 mg/L (Fish)		
108-3	8-3	META-XYLENE		No information	No information	No information		
100-4	1-4	ETHYL BENZENE		1.8 mg/l (Daphnia Magna)	4.6 mg/l (Green Algae)	4.2 mg/l (Rainbow Trout)		
14808	8-60-7	MICROCRYSTALLINE SILICA		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	III
14.5 Environmental hazards	No Information
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:

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), Carcinogenicity, Reproductive toxicity, 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.	<u>%</u>
TOLUENE	108-88-3	5.03
META-XYLENE	108-38-3	1.21
ETHYL BENZENE	100-41-4	0.5

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.
BARITE	13462-86-7
TALC	14807-96-6
Pennsylvania Right-To-Know	

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

Chemical Name	CAS-No.
BARITE	13462-86-7
TALC	14807-96-6
YELLOW IRON OXIDE	51274-00-1
YELLOW PIGMENT	31837-42-0
COLOR PIGMENT	5567-15-7
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)

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.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
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.
H360	May damage fertility or the unborn child.
H361	Suspected of damaging fertility or the unborn child.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
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.

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