

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	1027B1NL	Revision Date:	06/06/2023
	Product Name:	CARBOGUARD 690 PART B	Supercedes Date:	12/06/2022
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	v 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 1-412-68	1-6669	

2. Hazard Identification

2.1 Classification of the substance or mixture

Acute Toxicity, Inhalation, category 4 Carcinogenicity, category 2 Serious Eye Damage, category 1 Flammable Liquid, category 3 Respiratory Sensitizer, 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, PARA-XYLENE, META-XYLENE, ALKYLATED PHENOLIC POLYAMINE

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.
Serious Eye Damage, category 1	H318	Causes serious eye damage.
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.
Carcinogenicity, category 2	H351	Suspected of causing cancer.
PRECAUTION PHRASES		
	P210	Keep away from heat/sparks/open flames/hot surfaces No smoking.
	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
	P280	Wear protective gloves/protective clothing/eye protection/ face protection.
	P284	Wear respiratory protection.
	P285	In case of inadequate ventilation 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
	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.
	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

Date Printed: 06/06/2023

Hazardous ingredients

Name According to EEC ALKYLATED PHENOLIC POLYAMINE	EINEC No.	<u>CAS-No.</u> 68413-28-5	<u>%</u> 50 - <75	Classifications H315-317-319-334	
META-XYLENE	203-576-3	108-38-3	2.5 - <10	H312-315-332	Acute Tox. 4 Dermal, Acute Tox. 4 Inhalation, Skin Irrit. 2
N-BUTANOL	200-751-6	71-36-3	2.5 - <10	H226-302-315-318-335-336	Acute Tox. 4 Oral, Eye Dam. 1, Flam. Liq. 3, Skin Irrit. 2, STOT SE 3 NE, STOT SE 3 RTI
PARA-XYLENE	203-396-5	106-42-3	2.5 - <10	H304-312-315-332-335-371	Acute Tox. 4 Dermal, Acute Tox. 4 Inhalation, Asp. Tox. 1, Skin Irrit. 2, STOT SE 2, STOT SE 3 RTI
TRIS-2,4,6- (DIMETHYLAMINOMET HYL)PHENOL	202-013-9	90-72-2	2.5 - <10	H302-315-319	Acute Tox. 4 Oral, Eye Irrit. 2, Skin Irrit. 2
ETHYL BENZENE	202-849-4	100-41-4	2.5 - <10	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
ORTHO-XYLENE	202-422-2	95-47-6	2.5 - <10	H312-315-332	Acute Tox. 4 Dermal, Acute Tox. 4 Inhalation, Skin Irrit. 2
ETHYLENEDIAMINE	203-468-6	107-15-3	0.1 - <1.0	H302-312-314-317-334	Acute Tox. 4 Dermal, Acute Tox. 4 Oral, Resp. Sens. 1, Skin Corr. 1, Skin Sens. 1
TOLUENE	203-625-9	108-88-3	0.1 - <1.0	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

CAS-No.	M-Factors
68413-28-5	0
108-38-3	0
71-36-3	0
106-42-3	0
90-72-2	0
100-41-4	0
95-47-6	0
107-15-3	0
108-88-3	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: 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)

Name	CAS-No.	ACGIH TWA	ACGIH STEL	ACGIH Ceiling
ALKYLATED PHENOLIC POLYAMINE	68413-28-5	N/E	N/E	N/E
META-XYLENE	108-38-3	100 PPM	150 PPM	N/E
N-BUTANOL	71-36-3	20 PPM	N/E	N/E
PARA-XYLENE	106-42-3	100 PPM	150 PPM	N/E
TRIS-2,4,6- (DIMETHYLAMINOMETHYL) PHENOL	90-72-2	N/E	N/E	N/E
ETHYL BENZENE	100-41-4	20 PPM	125 ppm	
ORTHO-XYLENE	95-47-6	100 PPM	150 PPM	N/E
ETHYLENEDIAMINE	107-15-3	10 PPM	10 PPM	N/E
TOLUENE	108-88-3	20 PPM	N/E	N/E
Name	CAS-No.	<u>OSHA PEI</u>	<u>OSHA ST</u>	<u>rel</u>
ALKYLATED PHENOLIC POLYAMINE	68413-28-5	N/E	N/E	
META-XYLENE	108-38-3	100.00 PPM	N/E	
N-BUTANOL	71-36-3	300.0 MG/M3	N/E	
PARA-XYLENE	106-42-3	100.00 PPM	N/E	
TRIS-2,4,6- (DIMETHYLAMINOMETHYL) PHENOL	90-72-2	N/E	N/E	
ETHYL BENZENE	100-41-4	435 MGM3, 1	00 PP 5/4 5 MGM3 PPM	, 125
ORTHO-XYLENE	95-47-6	100.00 PPM	N/E	
ETHYLENEDIAMINE	107-15-3	25 MGM3, 10	PPM N/E	

TOLUENE	108-88-3	200 ppm	560 MGM3, 150
			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: 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:	Clear To Amber Liquid
	Physical State	
	Odor	Slight Amine
	Odor threshold	N/D
	рН	N/D
	Melting point / freezing point (°C)	N/D
	Boiling point/range (°C)	176 F (80 C) - 404 F (207 C)
	Flash Point (°C)	80F (27C)
	Evaporation rate	Slower Than Ether
	Flammability (solid, gas)	Not determined
	Upper/lower flammability or explosive limits	1.0 - 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	Unknown
	Explosive properties	Not determined
	Oxidising properties	Not determined

9.2	Other information	
	VOC Content g/I:	170
	Specific Gravity (g/cm3)	0.98

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

Information on toxicological effects					
Acute Toxicity:					
Oral LD50:	N/D				
Inhalation LC50:	N/D				
Irritation:	Skin Irritation, category 2				
Corrosivity:	Serious Eye Damage, category 1				
Conosivity.	Senous Lye Danlage, category 1				
Sensitization:	Skin sensitizer and Respiratory Sensitizer, category 1				
Repeated dose toxicity:	Unknown				
Carcinogenicity:	Carcinogenicity, category 2				
Mutagenicity:	Unknown				
	Unknown				
Toxicity for reproduction:	UTKIOWI				
STOT-single exposure:	Unknown				
STOT-repeated exposure:	Unknown				
Aspiration hazard:	Unknown				
Approximitation nazdru.					

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:

Date Printed: 06/06/2023

Product: 1027B1NL

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50	Gas LC50	<u>Dust/Mist</u> LC50
68413-28-5	ALKYLATED PHENOLIC POLYAMINE	2001 mg/kg, oral, rat	Not Available	Not Available	0.000	0.000
108-38-3	META-XYLENE	No Information	No Information	No Information	No Information	No Information
71-36-3	N-BUTANOL	790 mg/kg rat, oral	3400 mg/kg, dermal, rabbit	8000 ppm / 4hrs rat, inhalation	0.000	0.000
106-42-3	PARA-XYLENE	No Information	No Information	No Information	No Information	No Information
90-72-2	TRIS-2,4,6- (DIMETHYLAMINOMETHYL) PHENOL	1999 mg/kg (rat)	No Information	No Information	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
95-47-6	ORTHO-XYLENE	No Information	No Information	No Information	No Information	No Information
107-15-3	ETHYLENEDIAMINE	1200 MG/KG, ORAL, RAT		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	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.

12.	Ecol	ogical Information				
12.1 Toxicity:						
	EC	50 48hr (Daphnia):	Unknov	wn		
	IC5	0 72hr (Algae):	Unknov	wn		
	LC	50 96hr (fish):	Unknov	wn		
12.2	Persis	stence and degradability:	Unknov	wn		
12.3	Bioac	cumulative potential:	Unknov	wn		
12.4	Mobili	ty in soil:	Unknov	wn		
12.5		ts of PBT and vPvB sment:	The pro	oduct does not meet tl	ne criteria for PBT/VP	vB in accordance with Annex XIII.
12.6	Other	adverse effects:	Unknov	wn		
<u>CAS-</u>	<u>No.</u>	Chemical Name		<u>EC50 48hr</u>	<u>IC50 72hr</u>	LC50 96hr
68413	3-28-5	ALKYLATED PHENOLIC POLYAMINE		No information	No information	No information
108-3	8-3	META-XYLENE		No information	No information	No information
71-36	6-3	N-BUTANOL		1328 mg/l (Daphnia magna)	225 mg/l (Algae)	1376 mg/l (Fathead minnow)
106-4	2-3	PARA-XYLENE		No information	No information	No information

90-72-2	TRIS-2,4,6- (DIMETHYLAMINOMETHYL) PHENOL	No information	84 mg/l (Algae)	175 mg/l (Fish)
100-41-4	ETHYL BENZENE	1.8 mg/l (Daphnia Magna)	4.6 mg/l (Green Algae)	4.2 mg/l (Rainbow Trout)
95-47-6	ORTHO-XYLENE	No information	No information	No information
107-15-3	ETHYLENEDIAMINE	16.7 mg/l (Daphnia Magna)	71 mg/l)green algae)	640 mg/l (Fish)
108-88-3	TOLUENE	6 mg/l (Daphnia magna)	12.5 mg/L (Algae)	5.8 mg/L (Fish)

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	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:

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, 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:

Chemical Name	CAS-No.	<u>%</u>
META-XYLENE	108-38-3	9.53
N-BUTANOL	71-36-3	7.17
PARA-XYLENE	106-42-3	4.14
ORTHO-XYLENE	95-47-6	3
TOLUENE	108-88-3	0.1
BENZENE	71-43-2	0

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.
PHENOLIC POLYAMINE	PROPRIETARY

Pennsylvania Right-To-Know

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

Chemical Name	CAS-No.
PHENOLIC POLYAMINE	PROPRIETARY

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.
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.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
	Courses domage to organo

H370 Causes damage to organs.

H371	May cause damage to organs.
H373	May cause damage to organs through prolonged or repeated exposure.
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.