Product: 0986A1NL Date Printed: 05/06/2015



# **Safety Data Sheet**

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

1.1 Product Identifier 0986A1NL

> CARBOGUARD 890 PART A **Revision Date:** 06/05/2015 **Product Name:**

> > Supercedes Date: 25/05/2015

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

> Carboline Company Manufacturer:

> > 2150 Schuetz Road St. Louis, MO USA 63146

Regulatory / Technical Information: Contact Carboline Technical Services at

1-800-848-4645

Schlereth, Ken - ehs@stoncor.com **Datasheet Produced by:** 

CHEMTREC 1-800-424-9300 (Inside US) Emergency telephone number:

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

Hazardous to the aquatic environment, Chronic, category 2 Carcinogenicity, category 1A Eye Irritation, category 2 Flammable Liquid, category 3 STOT, single exposure, category 1 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

PARA-XYLENE, MICROCRYSTALLINE SILICA, EPOXY RESIN

# **GHS 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.
STOT, single exposure, category 3, RTI	H335	May cause respiratory irritation.
Carcinogenicity, category 1A	H350-1A	May cause cancer.
STOT, single exposure, category 1	H370	Causes damage to organs.
Hazardous to the aquatic environment,	H411	Toxic to aquatic life with long lasting effects.
Chronic, category 2		

# **GHS PRECAUTION PHRASES**

P201	Obtain special instructions before use.
P202	·
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.
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.
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.
P307+311	IF exposed, call a POISON CENTER or doctor/physician.
P308+313	IF exposed or concerned: Get medical advice/attention
P314	Get medical advice/attention if you feel unwell.
P332+313	If skin irritation occurs: Get medical advice/attention.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P391	Collect spillage.
P403+233	Store in a well-ventilated place. Keep container tightly

closed.

# 2.3 Other hazards

Not applicable

# 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**

CAS-No.	<u>Chemical Name</u>	<u>%</u>
25068-38-6	EPOXY RESIN	25-50
13463-67-7	TITANIUM DIOXIDE	25-50
14808-60-7	MICROCRYSTALLINE SILICA	10-25
25036-25-3	EPOXY RESIN	10-25
68515-43-5	1,2-BENZENEDICARBOXIOLIC ACID, DI-C9-11-BRANCHED AND LINEAR ALKYL ESTERS	10-25
1333-86-4	CARBON BLACK	2.5-10
108-38-3	META-XYLENE	2.5-10
108-65-6	1-METHOXY-2-PROPANOL ACETATE	1.0-2.5
67762-90-7	HYDROPHOBIC SILICA	1.0-2.5
64742-95-6	AROMATIC HYDROCARBON	1.0-2.5
78-93-3	METHYL ETHYL KETONE	1.0-2.5
106-42-3	PARA-XYLENE	1.0-2.5
100-41-4	ETHYL BENZENE	1.0-2.5
95-47-6	ORTHO-XYLENE	1.0-2.5
68987-63-3	COPPER COMPOUNDS	<0.1

GHS Symbols	GHS Hazard Statements	M-Factors
GHS07-GHS09	H315-317-319-335-411	0
		0
GHS08	H350-370	0
GHS07	H315-317-319	0
		0
GHS08	H351	0
GHS02-GHS07	H226-312-315-332	0
GHS02	H226	0
		0
GHS02-GHS08-GHS09	H226-411	0
GHS02-GHS07	H225-319-336	0
GHS02-GHS07-GHS08	H226-312-315-332-335-371	0
GHS02-GHS07	H225-332	0
GHS02-GHS07	H226-312-315-332	0
		0
	GHS07-GHS09  GHS08 GHS08 GHS07  GHS08 GHS02-GHS07 GHS02  GHS02-GHS08-GHS09 GHS02-GHS07 GHS02-GHS07 GHS02-GHS07	GHS07-GHS09  H315-317-319-335-411  GHS08 GHS07  H315-317-319  GHS08 H351 GHS02-GHS07 H226-312-315-332 GHS02  GHS02-GHS08-GHS09 H226  GHS02-GHS07 H225-319-336 GHS02-GHS07-GHS08 H226-312-315-332-335-371 GHS02-GHS07 H225-332

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.

# 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.

# 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

For personal protection see section 8. Ensure adequate ventilation. Ensure adequate ventilation. Evacuate personnel to safe areas. Evacuate personnel to safe areas. Remove all sources of ignition. 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.

## 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

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). 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.

# 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. Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Use only with adequate ventilation/personal protection.

**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)

<u>Name</u>	<u>%</u>	ACGIH TLV- TWA	ACGIH TLV- STEL	OSHA PEL- TWA	OSHA PEL- CEILING	OEL Note
EPOXY RESIN	25-50	N/E	N/E	N/E	N/E	
TITANIUM DIOXIDE	25-50	10 MGM3	N/E	10 MGM3	N/E	
MICROCRYSTALLINE SILICA	10-25	0.025 MG/M3 (respirable)	N/E	0.1 MG/M3	N/E	
EPOXY RESIN	10-25	N/E	N/E	N/E	N/E	
1,2-BENZENEDICARBOXIOLIC ACID, DI-	10-25	N/E	N/E	N/E	N/E	
C9-11-BRANCHED AND LINEAR ALKYL						
ESTERS						
CARBON BLACK	2.5-10	3.0 MG/M3	N/E	3.5 MG/M3	N/E	
META-XYLENE	2.5-10	100 PPM	150 PPM	435 MG/M3	N/E	
1-METHOXY-2-PROPANOL ACETATE	1.0-2.5	N/E	N/E	N/E	N/E	
HYDROPHOBIC SILICA	1.0-2.5	10 MG/M3,	N/E	6 MG/M3	N/E	
		INHALABLE				
AROMATIC HYDROCARBON	1.0-2.5	N/E	N/E	N/E	N/E	
METHYL ETHYL KETONE	1.0-2.5	200 PPM	300 PPM	590 MGM3	N/E	
PARA-XYLENE	1.0-2.5	100 PPM	150 PPM	435 MGM3	N/E	
ETHYL BENZENE	1.0-2.5	20 PPM	N/E	435 MGM3	N/E	
ORTHO-XYLENE	1.0-2.5	100 PPM	150 PPM	435 MG/M3	N/E	
COPPER COMPOUNDS	<0.1	N/E	N/E	N/E	N/E	

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:** Safety glasses with side-shields.

**HAND PROTECTION:** Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Impervious glovesRequest information on glove permeation properties from the glove supplier.

**OTHER PROTECTIVE EQUIPMENT:** Ensure that eyewash stations and safety showers are close to the workstation location. Lightweight protective clothing

**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 Yellow Liquid

Physical State Liquid
Odor Epoxy

Odor threshold

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

**Boiling point/range (°C)** 173 F (78 C) - 500 F (260 C)

Flash Point, (°C) 32

**Evaporation rate** 

Flammability (solid, gas)

Upper/lower flammability or explosive Not determined

limits

Vapour Pressure, mmHg N/D

Vapour density
Relative density

Solubility in / Miscibility with water N/D

Partition coefficient: n-octanol/water

Auto-ignition temperature (°C)

Decomposition temperature (°C)

**Viscosity** Unknown

Explosive properties
Oxidising properties

9.2 Other information

VOC Content g/l: 214
Specific Gravity (g/cm3) 1.29

# 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: Unknown

Sensitization: Unknown

Repeated dose toxicity: Unknown

Carcinogenicity: Unknown

Mutagenicity: Unknown

Toxicity for reproduction: 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
25068-38-6	EPOXY RESIN	11400 mg/kg, rat, oral	23000 mg/kg, dermal, rabbit	>20 mL/kg skin, sensitizer
13463-67-7	TITANIUM DIOXIDE	25000 mg/m3, oral (rat)		Not Available
14808-60-7	MICROCRYSTALLINE SILICA	Not Available		Not Available
25036-25-3	EPOXY RESIN	>2000 mg/kg, oral, rat	>2000 mg/kg, dermal, rat	Not Available
68515-43-5	1,2-BENZENEDICARBOXIOLIC ACID, DI- C9-11-BRANCHED AND LINEAR ALKYL ESTERS	>5000 MG/KG, ORAL, RAT		Not Available
1333-86-4	CARBON BLACK	8000 mg/kg oral, rat		Not Available
108-38-3	META-XYLENE	Not Available		Not Available
108-65-6	1-METHOXY-2-PROPANOL ACETATE	8532 mg/kg, oral (rat)	>5000 mg/kg	101 ppm/4 hr, rat, inh
67762-90-7	HYDROPHOBIC SILICA	6350 mg/kg, oral, rat		Not Available
64742-95-6	AROMATIC HYDROCARBON	4700 mg/kg, oral, rat		3670 ppm/8 hours, rat, inhalation
78-93-3	METHYL ETHYL KETONE	2194 mg/kg rat, oral		34.5 mg/L/ 4 hour rat, inhalation

106-42-3 PARA-XYLENE Not Available Not Available

100-41-4 ETHYL BENZENE 3500 mg/kg rat, oral >5000 mg/l, dermal rabbit 17.2 mg/L lnh, Rat, 4Hr

95-47-6 ORTHO-XYLENE Not Available Not Available

# Additional Information:

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

# 12. Ecological Information

# 12.1 Toxicity:

EC50 48hr (Daphnia):

IC50 72hr (Algae):

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
25068-38-6	EPOXY RESIN	2.1 mg/l (daphnia)	11 mg/l (algae)	1.3 mg/l (fish)
13463-67-7	TITANIUM DIOXIDE	No information	No information	No information
14808-60-7	MICROCRYSTALLINE SILICA	No information	No information	No information
25036-25-3	EPOXY RESIN	No information	No information	No information
68515-43-5	1,2-BENZENEDICARBOXIOLIC ACID, DI- C9-11-BRANCHED AND LINEAR ALKYL ESTERS	No information	No information	No information
1333-86-4	CARBON BLACK	No information	No information	No information
108-38-3	META-XYLENE	No information	No information	No information
108-65-6	1-METHOXY-2-PROPANOL ACETATE	No information	No information	No information
67762-90-7	HYDROPHOBIC SILICA	No information	No information	No information
64742-95-6	AROMATIC HYDROCARBON	No information	No information	No information
78-93-3	METHYL ETHYL KETONE	308 mg/l (Daphnia magna)	No information	2993 mg/l (Pimephales promelas)
106-42-3	PARA-XYLENE	No information	No information	No information
100-41-4	ETHYL BENZENE	No information	No information	No information
95-47-6	ORTHO-XYLENE	No information	No information	No information
68987-63-3	COPPER COMPOUNDS	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	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	Marine Pollutant: Yes (Epoxy resin)
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:

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

# 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>
META-XYLENE	108-38-3
PARA-XYLENE	106-42-3
ETHYL BENZENE	100-41-4
ORTHO-XYLENE	95-47-6
COPPER COMPOUNDS	68987-63-3

## **Toxic Substances Control Act:**

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. Clean Air Act:

**EPA Coating Category:** 

EPA VOC Content Limit (g/l):

Product VOC Content (g/l)

Thinning Recommendations:

Application Recommendations:

Harmful if swallowed.

# 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. YELLOW PIGMENT 31837-42-0 **IRON OXIDE** 1332-37-2

# California Proposition 65:

Warning: The following ingredients present in the product are known to the state of California to cause Cancer:

**Chemical Name** CAS-No. TITANIUM DIOXIDE 13463-67-7 MICROCRYSTALLINE SILICA 14808-60-7 CARBON BLACK 1333-86-4 ETHYL BENZENE 100-41-4 **CUMENE** 98-82-8 **BENZENE** 71-43-2

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other

reproductive hazards.

**Chemical Name** CAS-No. **TOLUENE** 108-88-3 **BENZENE** 71-43-2

# 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. H312 Harmful in contact with skin. H315 Causes skin irritation. May cause an allergic skin reaction. H317 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. H370 Causes damage to organs.

H371 May cause damage to organs.H411 Toxic to aquatic life with long lasting effects.

## Reasons for revision

No Information

No Information