

Safety Data Sheet prepared to UN GHS Revision 3

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

1029A1YL 1.1 Product Identifier

> CARBOGUARD 890 VOC PART Revision Date: **Product Name:** 09/02/2015

A MIXED METAL OXIDE

No Information

02/20/2015 Supercedes Date:

Relevant identified uses of the substance or mixture and uses

advised against

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) 1.4 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









Danger

Named Chemicals on Label

PARACHLOROBENZO TRIFLUORIDE, 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	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

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>Chemical Name</u>	<u>%</u>
EPOXY RESIN	25-50
NICKEL ANTIMONY COMPOUND	10-25
EPOXY RESIN	10-25
1,2-BENZENEDICARBOXIOLIC ACID, DI-C9-11-BRANCHED AND LINEAR ALKYL ESTERS	10-25
MICROCRYSTALLINE SILICA	10-25
TITANIUM DIOXIDE	2.5-10
CHROME ANTIMONY COMPOUND	2.5-10
PARACHLOROBENZO TRIFLUORIDE	2.5-10
META-XYLENE	2.5-10
PARA-XYLENE	1.0-2.5
ETHYL BENZENE	1.0-2.5
ORTHO-XYLENE	1.0-2.5
	EPOXY RESIN NICKEL ANTIMONY COMPOUND EPOXY RESIN 1,2-BENZENEDICARBOXIOLIC ACID, DI-C9-11-BRANCHED AND LINEAR ALKYL ESTERS MICROCRYSTALLINE SILICA TITANIUM DIOXIDE CHROME ANTIMONY COMPOUND PARACHLOROBENZO TRIFLUORIDE META-XYLENE PARA-XYLENE ETHYL BENZENE

CAS-No.	GHS Symbols	GHS Hazard Statements	M-Factors
25068-38-6	GHS07-GHS09	H315-317-319-335-411	0
8007-18-9			0
25036-25-3	GHS07	H315-317-319	0
68515-43-5			0
14808-60-7	GHS08	H350-370	0
13463-67-7			0
68186-90-3			0
98-56-6	GHS02-GHS07	H226-315-317-319-335	0
108-38-3	GHS02-GHS07	H226-312-315-332	0
106-42-3	GHS02-GHS07-GHS08	H226-312-315-332-335-371	0
100-41-4	GHS02-GHS07	H225-332	0
95-47-6	GHS02-GHS07	H226-312-315-332	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

Irritating to eyes and skin. May be harmful if swallowed.

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: Combustible LiquidProvide adequate ventilation. Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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. Combustible materialCool containers / tanks with water spray.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Ensure adequate ventilation. Evacuate personnel to safe areas. Remove all sources of ignition.

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).

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. 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	<u>OSHA PEL-</u> TWA	OSHA PEL- CEILING	OEL Note
EPOXY RESIN	25-50	N/E	N/E	N/E	N/E	
NICKEL ANTIMONY COMPOUND	10-25	0.5 MGM3	N/E	0.5 MGM3	N/E	
EPOXY RESIN	10-25	N/E	N/E	N/E	N/E	
1,2-BENZENEDICARBOXIOLIC ACID, DI- C9-11-BRANCHED AND LINEAR ALKYL ESTERS	10-25	N/E	N/E	N/E	N/E	
MICROCRYSTALLINE SILICA	10-25	0.025 MG/M3 (respirable)	N/E	0.1 MG/M3	N/E	
TITANIUM DIOXIDE	2.5-10	10 MGM3	N/E	10 MGM3	N/E	

CHROME ANTIMONY COMPOUND	2.5-10	0.5 MG/M3	N/E	0.5 MG/M3	N/E
PARACHLOROBENZO TRIFLUORIDE	2.5-10	N/E	N/E	N/E	N/E
META-XYLENE	2.5-10	100 PPM	150 PPM	435 MG/M3	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

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 gloves. Request 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 c	hemical	properties

Appearance: Viscous Liquid, Various Colors

Physical State

Odor

Epoxy
Odor threshold

PH

N/D

Melting point / freezing point (°C)

N/D

Boiling point/range (°C) 176 F (80 C) - 500 F (260 C)

Flash Point, (°C) 43

Evaporation rate Slower Than Ether

Flammability (solid, gas) Not determined

Upper/lower flammability or explosive 0.5 - 10.5

limits

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 Not Determined Not determined **Explosive properties**

Not determined Oxidising properties

9.2 Other information

> VOC Content g/I: 100

app. 1.36 Specific Gravity (g/cm3)

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

Unknown Corrosivity:

Sensitization: Unknown

Unknown Repeated dose toxicity:

Carcinogenicity: Unknown

Mutagenicity: Unknown

Unknown Toxicity for reproduction:

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
8007-18-9	NICKEL ANTIMONY COMPOUND	10000 mg/kg oral rat		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
14808-60-7	MICROCRYSTALLINE SILICA	Not Available	Not Available	Not Available
13463-67-7	TITANIUM DIOXIDE	25000 mg/m3, oral (rat)		Not Available
68186-90-3	CHROME ANTIMONY COMPOUND	>10000 MG/KG, ORAL, RAT		NOT AVAILABLE
98-56-6	PARACHLOROBENZO TRIFLUORIDE	6800 mg/kg, oral, rat	3300 mg/kg, dermal, rabbit	4479 ppm
108-38-3	META-XYLENE	Not Available		Not Available
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:

Irritating to eyes and skin. May be harmful if swallowed.

12. Ecological Information

12.1 Toxicity:

EC50 48hr (Daphnia):

IC50 72hr (Algae):

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)
8007-18-9	NICKEL ANTIMONY COMPOUND	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

14808-60-7	MICROCRYSTALLINE SILICA	No information	No information	No information
13463-67-7	TITANIUM DIOXIDE	No information	No information	No information
68186-90-3	CHROME ANTIMONY COMPOUND	No information	No information	No information
98-56-6	PARACHLOROBENZO TRIFLUORIDE	2 mg/l (Daphnia magna)	No information	3 mg/l (Zebra fish)
108-38-3	META-XYLENE	No information	No information	No information
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

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	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>
NICKEL ANTIMONY COMPOUND	8007-18-9
META-XYLENE	108-38-3
PARA-XYLENE	106-42-3
ETHYL BENZENE	100-41-4
ORTHO-XYLENE	95-47-6

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.

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

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 NameCAS-No.AZO PIGMENT2786-76-7

California Proposition 65:

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

Chemical Name	<u>CAS-No.</u>
NICKEL ANTIMONY COMPOUND	8007-18-9
MICROCRYSTALLINE SILICA	14808-60-7
TITANIUM DIOXIDE	13463-67-7
ETHYL BENZENE	100-41-4
CARBON BLACK	1333-86-4
BENZENE	71-43-2
CUMENE	98-82-8

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.

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.
H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

May cause respiratory irritation.
May cause cancer. H335

H350

H370 Causes damage to organs. May cause damage to organs.

Toxic to aquatic life with long lasting effects. H371

H411

Reasons for revision

No Information

No Information