Safety Data Sheet according to Regulation (EC) No. 2015/830

SECTION 1: Identification of the Substance/Mixture and the Company/Undertaking

1.1 Product Identifier 10940000

Product Name: CARBOGUARD 940 - B

Revision Date: 30/05/2017

Supercedes Date: 18/08/2015

Version Number: 1

1.2 Relevant identified uses of the substance or mixture and uses advised against Hardener for 2 components coatings - Industrial use.

Product to be mixed with: CARBOGUARD 940 - A

Mixing ratio by volume Part A/ Part B: 3 / 2

1.3 Details of the supplier of the safety data sheet

Importer:
StonCor Europe
9, Rue du Travail - 1400 Nivelles, Belgium

Manufacturer:
Carboline Italia, S.p.a.
Via Margherita Vigano' De Vizzi . n 77
20092 Cinisello Balsamo (MI)
Italy

Regulatory / Technical Information:
+32 67493710 Nivelles, Belgium
+39 02253751 Cinisello Balsamo, Italy

Datasheet Produced by: Solvesi, Anna - ehs@stoncor.com

1.4 Emergency telephone number:
CHEMTREC +1 703 5273887 (Outside US)
PPC +1 412 6816669 (Outside US)
Centro Antiveleni di Roma +39 06 49978000 (CAV Policlinico Umberto I - Roma)(24h/24h)
Emergenza ambientale +39 335-601 32 88 / +39 347-949 84 88 / +39 348-246 90 99

SECTION 2: Hazard Identification

2.1 Classification of the substance or mixture

Classification according to Classification, Labeling & Packaging Regulation (EC) 1272/2008

HAZARD STATEMENTS

Skin Corrosion, category 1B	H314-1B
Skin Sensitizer, category 1	H317
Acute Toxicity, Inhalation, category 4	H332
STOT, repeated exposure, category 2	H373
Hazardous to the aquatic environment, Chronic, category 2	H411

2.2 Label elements

Symbol(s) of Product

Signal Word

Danger

Named Chemicals on Label

Benzyl alcohol, Tetraethylenepentamine, 3-Aminomethyl-3,5,5-trimethylcyclohexylamine, quartz (silicon dioxide), fatty acids, tall-oil, reaction products with tetraethylenepentamine

HAZARD STATEMENTS

Skin Corrosion, category 1B	H314-1B	Causes severe skin burns and eye damage.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Acute Toxicity, Inhalation, category 4	H332	Harmful if inhaled.
STOT, repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment, Chronic, category 2	H411	Toxic to aquatic life with long lasting effects.

PRECAUTION PHRASES

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/ face protection.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+364	Take off contaminated clothing and wash it before reuse.

ADDITIONAL INFORMATION

(1)	REACH n° 01-2119965165-33 covered by cas 38294-64-3
CAS 68953-36-6	fatty acids, tall-oil, reaction products with tetraethylenepentamine 01-2119487006-38 (covered by cas1226892-45-0)

2.3 Other hazards

No Information

Results of PBT and vPvB assessment:

No information

SECTION 3: Composition/Information On Ingredients

3.2 Mixtures

Hazardous Ingredients

CAS-No.	EINEC No.	Name According to EEC	%
100-51-6	202-859-9	Benzyl alcohol	10-25
12001-26-2	601-648-2	mica	10-25
68953-36-6	273-201-6	fatty acids, tall-oil, reaction products with tetraethylenepentamine	2.5-10
2855-13-2	220-666-8	3-Aminomethyl-3,5,5-trimethylcyclohexylamine	2.5-10
68609-08-5	614-657-1	cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol a diglycidyl ether homopolymer(1)	2.5-10
14808-60-7	238-878-4	quartz (silicon dioxide)	2.5-10

112-57-2	203-986-2	Tetraethylenepentamine	1.0-2.5
1330-20-7	215-535-7	xylene	0.1-1.0

CAS-No.	REACH Reg No.	CLP Symbols	CLP Hazard Statements	M-Factors
100-51-6	01-2119492630-38	GHS07	H302-319-332	
12001-26-2		GHS07	H319-335	
68953-36-6	01-2119487006-38	GHS05-GHS07-GHS09	H314-317-400-410	
2855-13-2	01-2119514687-32	GHS05-GHS07	H302-312-314-317-412	
68609-08-5	01-2119965165-33	GHS05-GHS07-GHS09	H314-317-411	
14808-60-7		GHS08	H372	
112-57-2	01-2119487290-37	GHS05-GHS06-GHS09	H302-311-314-317-411	
1330-20-7	01-2119488216-32	GHS02-GHS07-GHS08	H226-304-312-315-319-332-335-373	

Additional Information: The text for CLP Hazard Statements shown above (if any) is given in Section 16.

SECTION 4: First-aid Measures

4.1 Description of First Aid Measures

GENERAL NOTES: When symptoms persist or in all cases of doubt seek medical advice.
AFTER INHALATION: Move to fresh air. Call a physician or poison control centre immediately.
AFTER SKIN CONTACT: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
AFTER EYE CONTACT: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Remove contact lenses.
AFTER INGESTION: Gently wipe or rinse the inside of the mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Self protection of the first aider:

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

No Information

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.

SECTION 5: Fire-fighting Measures

5.1 Extinguishing Media:

Carbon Dioxide, Dry Chemical, Foam

FOR SAFETY REASONS NOT TO BE USED: Alcohol, Alcohol based solutions, any other media not listed above.

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.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment.

6.2 Environmental precautions

Should not be released into the environment.

6.3 Methods and material for containment and cleaning up

Pick up and transfer to properly labelled containers. Prevent further leakage or spillage if safe to do so.

6.4 Reference to other sections

FURTHER INSTRUCTIONS: Please refer to EU disposal requirements or country specific disposal requirements for this material. See Section 13 for further information.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Wear personal protective equipment. Avoid contact with skin and clothing.
When using, do not eat, drink or smoke.

7.2 Conditions for safe storage, including any incompatibilities

CONDITIONS TO AVOID: No Information
STORAGE CONDITIONS: Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure Controls/Personal Protection

8.1 Control parameters

Ingredients with Occupational Exposure Limits
(UK WELS)

Name	CAS-No.	LTEL ppm	STEL ppm	STEL mg/m3	LTEL mg/m3
Benzyl alcohol	100-51-6				
mica	12001-26-2			10 (total dust)	0.8 (resp. dust)
fatty acids, tall-oil, reaction products with tetraethylenepentamine	68953-36-6				
3-Aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2				
cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol a diglycidyl ether homopolymer(1)	68609-08-5				
quartz (silicon dioxide)	14808-60-7				0.1
Tetraethylenepentamine	112-57-2				
xylene	1330-20-7	50	100	441	220

Name	CAS-No.	OEL Note
Benzyl alcohol	100-51-6	
mica	12001-26-2	
fatty acids, tall-oil, reaction products with tetraethylenepentamine	68953-36-6	
3-Aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	
cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol a diglycidyl ether homopolymer(1)	68609-08-5	
quartz (silicon dioxide)	14808-60-7	
Tetraethylenepentamine	112-57-2	
xylene	1330-20-7	Sk

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: Wear a positive-pressure supplied-air respirator. When painting small areas, or when using a roller or brush, respiratory protection with combination filter (dust and gas filter, EN 141) may be used: Gas filter type A1 (organic substances). Dust filter P3 (for fine dust).
EYE PROTECTION: Tightly fitting safety goggles.
HAND PROTECTION: Impervious butyl rubber gloves. Chemical resistant apron. Long sleeved clothing. Remove and wash

contaminated clothing before re-use. Protective gloves complying with EN 374: Butyl rubber. Nitril rubber.
OTHER PROTECTIVE EQUIPMENT: No Information
ENGINEERING CONTROLS: Ensure adequate ventilation, especially in confined areas.

Chemical Name:

Benzyl alcohol

EC No.: 202-859-9

CAS-No.: 100-51-6

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required					25 mg/Kg bw/day		5 mg/Kg bw/day
Inhalation		110 mg/m³		22 mg/m3		40.55 mg/m3		8.11 mg/m3
Dermal		40 mg/kg bw/day		8 mg/kg bw/day		28.5 mg/Kg bw/day		5.7 mg/Kg bw/day

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	1 mg/l
Fresh water sediments	5.27 mg/Kg wwt
Marine water	0.1 mg/l
Marine sediments	0.527 mg/Kg wwt
Food chain	
Microorganisms in sewage treatment	39 mg/l
soil (agricultural)	0.456 mg/Kg wwt
Air	

Chemical Name:

3-Aminomethyl-3,5,5-trimethylcyclohexylamine

EC No.: 220-666-8

CAS-No.: 2855-13-2

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required							
Inhalation	20.1	20.1						
Dermal								0.526 mg/kg bodyweight/day

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.06 mg/l
Fresh water sediments	5.784 mg/kg
Marine water	0.006mg/l
Marine sediments	0.578 mg/kg (dry weight)
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	1.121 mg/kg (dry weight)
Air	

Chemical Name:
Tetraethylenepentamine

EC No.: 203-986-2

CAS-No.: 112-57-2

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required					26 mg/kg bw/ day		0.53 mg/kg bw/ day
Inhalation		6940 mg/m3		1.29 mg/m3		2071 mg/m3		0.38 mg/m3
Dermal			0.036 mg/cm2	0.74 mg/kg bw/ day	1.29 mg/cm2	10 mg/kg bw/ day	0.56 mg/cm2	0.32 mg/cm2

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.0068 mg/L
Fresh water sediments	0.341 mg/kg¨
Marine water	0.0068 mg/L
Marine sediments	0.746 mg/kg
Food chain	
Microorganisms in sewage treatment	
soil (agricultural)	0.274 mg/kg
Air	

Chemical Name:
xylene

EC No.: 215-535-7

CAS-No.: 1330-20-7

DNELs - Derived no effect level

	Workers				Consumers			
Route of Exposure	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic	Acute effect local	Acute effects systemic	Chronic effects local	Chronic effects systemic
Oral	Not required							1.6 mg/kg bw/ day
Inhalation	289 mg/m³	289 mg/m³		77 mg/m³	174 mg/m³	174 mg/m³		14.8 mg/m³
Dermal				180 mg/kg bw/ day				108 mg/kg bw/ day

PNEC's - Predicted no effect concentration

Environmental protection target	PNEC
Fresh water	0.327 mg/L
Fresh water sediments	12.46 mg/kg
Marine water	0.327 mg/L
Marine sediments	12.46 mg/kg
Food chain	
Microorganisms in sewage treatment	6.58 mg/L
soil (agricultural)	2.31 mg/kg
Air	

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: liquid

Physical State LIQUID

Odor amine

Odor threshold Not determined

pH N/A

Melting point / freezing point (°C)

	Not determined
Boiling point/range (°C)	Not determined
Flash Point, (°C)	95
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	Not determined
Vapour Pressure	N/D
Vapour density	Not determined
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	Not determined
Explosive properties	Not determined
Oxidising properties	Not determined

9.2 Other information

VOC Content g/l: 70

Grams of VOC per liter of coating product as applied per ISO 11890-1 and/or ISO 11890-2.

Specific Gravity (g/cm3) 1.58

SECTION 10: Stability and Reactivity

10.1 Reactivity
No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability
No Information

10.3 Possibility of hazardous reactions
No Information

10.4 Conditions to avoid
No Information

10.5 Incompatible materials
No Information

10.6 Hazardous decomposition products
No Information

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute Toxicity:

Oral LD50:	No Information
Inhalation LC50:	No Information
Irritation:	No information available.
Corrosivity:	No information available.

Sensitization: No information available.

Repeated dose toxicity: No information available.

Carcinogenicity: No information available.

Mutagenicity: No information available.

Toxicity for reproduction: No information available.

STOT-single exposure: No information available.

STOT-repeated exposure: No information available.

Aspiration hazard: No information available.

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.	Name According to EEC	Oral LD50	Dermal LD50	Vapor LC50
100-51-6	Benzyl alcohol	1230 mg/kg rat	2980 mg/kg, rabbit	
12001-26-2	mica	> 5000 mg/kg (rat)		
68953-36-6	fatty acids, tall-oil, reaction products with tetraethylenepentamine	4750 mg/kg oral, rat		
2855-13-2	3-Aminomethyl-3,5,5-trimethylcyclohexylamine	1030 mg/kg (oral-rat)	1840 mg/kg (dermal-rabbit)	
112-57-2	Tetraethylenepentamine	2140 mg/Kg (oral, rat)	660 mg/Kg (dermal, rabbit)	
1330-20-7	xylene	>2000 mg/kg, rat, oral	3200 mg/kg, rabbit, dermal	20 mg/L (inh/vapour/rat)

Additional Information:

This product may contain Quartz (silicon dioxide), which is listed by IARC as a known carcinogenic to humans (Group 1). This classification is relevant when exposed to Quartz (silicon dioxide) in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

SECTION 12: Ecological Information

12.1 Toxicity:

EC50 48hr (Daphnia): No information

IC50 72hr (Algae): No information

LC50 96hr (fish): No information

12.2 Persistence and degradability: No information

12.3 Bioaccumulative potential: No information

12.4 Mobility in soil: No information

12.5 Results of PBT and vPvB assessment: No information

12.6 Other adverse effects: No information

CAS-No.	Name According to EEC	EC50 48hr	IC50 72hr	LC50 96hr
100-51-6	Benzyl alcohol	400 mg/L (daphnia magna)	700 mg/L (algae)	10 mg/L (fish)
12001-26-2	mica	No information	No information	
68953-36-6	fatty acids, tall-oil, reaction products with tetraethylenepentamine	No information	No information	

2855-13-2	3-Aminomethyl-3,5,5-trimethylcyclohexylamine	23 mg/L	No information	110 mg/L
68609-08-5	cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol a diglycidyl ether homopolymer(1)	No information	No information	
14808-60-7	quartz (silicon dioxide)	No information	No information	
112-57-2	Tetraethylenepentamine	No information	No information	
1330-20-7	xylene	165 mg/L (Daphnia magna 24h)	3 - 5 mg/L (Selenastrum sp.)	2 - 11 mg/L (Roccus saxatilis), 8.2 mg/L (Salmo gairdneri), 13.5 mg/L (Lepomis macrichirus), 21.0 mg/L (Pimephales promelas)

Further Ecological Information

Contains the following ingredients which are classified as water dangerous according to EEC directive No. 76/464/EEC in percentages > 1%.

CAS-No.	Name According to EEC
68953-36-6	fatty acids, tall-oil, reaction products with tetraethylenepentamine
2855-13-2	3-Aminomethyl-3,5,5-trimethylcyclohexylamine
112-57-2	Tetraethylenepentamine

SECTION 13: Disposal Considerations

13.1 **WASTE TREATMENT METHODS:** It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.

European Waste Code: 080111*
Packaging Waste Code: 150110

SECTION 14: Transport Information

14.1	**UN number**	UN 3066
14.2	**UN proper shipping name**	.PAINT
	Technical name	Not applicable
14.3	**Transport hazard class(es)**	8
	Subsidiary shipping hazard	Not applicable
14.4	**Packing group**	II
14.5	**Environmental hazards**	Marine Pollutant : YES (Fatty acids, tall-oil, reaction products with tetraethylenepentamine)
14.6	**Special precautions for user**	Not applicable
	EmS-No.:	F-A, S-B
14.7	**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code**	Not applicable

SECTION 15: Regulatory Information

15.1 **Safety, health and environmental regulations/legislation for the substance or mixture:**

National Regulations:

Denmark Product Registration Number:	Not available
Danish MAL Code:	Not available
Danish MAL Code - Mixture:	Not available
Sweden Product Registration Number:	Not available
Norway Product Registration Number:	Not available
WGK Class:	

Directive 2004/42/CE : 70 g/l (subcat j)

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other Information

Text for CLP Hazard Statements shown in Section 3 describing each ingredient:

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
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.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Reasons for revision

Composition Information Changed
Substance and/or Product Properties Changed in Section(s):
09 - Physical and Chemical Properties
13 - Disposal Information
14 - Transportation Information
15 - Regulatory Information
Statement(s) Changed

This Safety Data Sheet (SDS) has been revised to meet the new EU CLP requirements. There have been both formatting and content changes based on the CLP classification (if applicable), please review each section of the SDS for specific changes.

List of References:

This Safety Data Sheet was compiled with data and information from the following sources:

The Ariel Regulatory Database provided by the 3E Corporation in Copenhagen, Denmark;
European Union Commission Regulation No. 1907/2006 on REACH as amended within Commission Regulation (EU) 2015/830;
European Union (EC) Regulation No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) and subsequent technical progress adaptations (ATP);
EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes".

Acronym & Abbreviation Key:

CLP	Classification, Labeling & Packaging Regulation
EC	European Commission
EU	European Union
US	United States
CAS	Chemical Abstract Service
EINECS	European Inventory of Existing Chemical Substances
REACH	Registration, Evaluation, Authorization of Chemicals Regulation
GHS	Globally Harmonized System of Classification and Labeling of Chemicals

LTEL	Long term exposure limit
STEL	Short term exposure limit
OEL	Occupational exposure limit
ppm	Parts per million
mg/m3	Milligrams per cubic meter
TLV	Threshold Limit Value
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA	Occupational Safety & Health Administration
PEL	Permissible Exposure Limits
VOC	Volatile organic compounds
g/l	Grams per liter
mg/kg	Milligrams per kilogram
N/A	Not applicable
LD50	Lethal dose at 50%
LC50	Lethal concentration at 50%
EC50	Half maximal effective concentration
IC50	Half maximal inhibitory concentration
PBT	Persistent bioaccumulative toxic chemical
vPvB	Very persistent and very bioaccumulative
EEC	European Economic Community
ADR	International Transport of Dangerous Goods by Road
RID	International Transport of Dangerous Goods by Rail
UN	United Nations
IMDG	International Maritime Dangerous Goods Code
IATA	International Air Transport Association
MARPOL	International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978
IBC	International Bulk Container
RTI	Respiratory Tract Irritation
NE	Narcotic Effects

For further information, please contact: Technical Services Department

The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product or where instructions and recommendations are not followed.