

# Safety Data Sheet

# prepared to UN GHS Revision 3

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

1.1	Product Identifier	562-0025	Revision Date: Supersedes Date:	26/08/2023 07/10/2022
	Product Name:	Carboguard 193 - Part A	Superseues Date.	07/10/2022
1.2	Relevant identified uses of the substance or mixture and uses advised against	Base component of 2 components coa recommended	ting - Industrial use.	Advised against: others than
1.3	Details of the supplier of the safety	data sheet		
	Importer:	Importer		
	Manufacturer:	StonCor Africa (Pty.) Ltd. 8 Cresset Road Midrand Industrial Park, Chloorkop P.O. Box 2205 2001, Johannesburg South Africa Regulatory / Technical Information: +27 11 254 5500		
	Datasheet Produced by:	Hensberg, Joshua - ehs@stoncor.com	1	
1.4	Emergency telephone number:	CHEMTREC 1-800-424-9300 (Inside U CHEMTREC +1 703 5273887 (Outside	,	
		Giftinformasjonen: +47 22 59 13 00		

# 2. Hazard Identification

## 2.1 Classification of the substance or mixture

Acute Toxicity, Inhalation, category 4 Hazardous to the aquatic environment, Chronic, category 2 Carcinogenicity, category 1A Eye Irritation, category 2A Flammable Liquid, category 2 Reproductive Toxicity, category 1A STOT, repeated exposure, category 2 STOT, single exposure, category 2 Skin Irritation, category 2 Skin Sensitizer, category 1

### 2.2 Label elements

#### Symbol(s) of Product



#### Signal Word

Danger

### Named Chemicals on Label

Ethylbenzene, 4-methylpentan-2-one, Xylene, quartz (silicon dioxide), Reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight <= 700)

### HAZARD STATEMENTS

Flammable Liquid, category 2 Skin Irritation, category 2 Skin Sensitizer, category 1 Eye Irritation, category 2A Acute Toxicity, Inhalation, category 4 Carcinogenicity, category 1A	H225 H315 H317 H319 H332 H350-1A	Highly flammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause cancer.
Reproductive Toxicity, category 1A	H360-1A	May damage fertility or the unborn child.
STOT, single exposure, category 2	H371	May cause damage to organs.
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		
	P201	Obtain special instructions before use.
	P202	Do not handle until all safety precautions have been read and understood.
	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
	P235	Keep cool.
	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.
	P308+313	IF exposed or concerned: Get medical advice/attention.
	P308+P313	IF exposed or concerned: Get medical advice/attention
	P309+P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
	P314	Get medical advice/attention if you feel unwell.
	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					
Name According to EEC Xylene	<u>EINEC No.</u> 215-535-7	<u>CAS-No.</u> 1330-20-7	<u>%</u> 10 - <25	Classifications H226-315-332	Acute Tox. 4 Inhalation, Flam. Liq. 3, Skin Irrit. 2
Reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight <= 700)	500-033-5	25068-38-6	10 - <25	H315-317-319-411	Aquatic Chronic 2, Eye Irrit. 2, Skin Irrit. 2, Skin Sens. 1
4-methylpentan-2-one	203-550-1	108-10-1	10 - <25	H225-302-319-332-3 35	Acute Tox. 4 Inhalation, Acute Tox. 4 Oral, Eye Irrit. 2, Flam. Liq. 2, STOT SE 3 RTI
trizinc bis (orthophosphate)	231-944-3	7779-90-0	2.5 - <10	H302-400-410	Acute Tox. 4 Oral, Aquatic Acute 1, Aquatic Chronic 1
red iron oxide	215-168-2	1309-37-1	2.5 - <10		
quartz (silicon dioxide)	238-878-4	14808-60-7	2.5 - <10	H350-370	Carc. 1A, STOT SE 1
1-methoxypropan-2-ol	203-539-1	107-98-2	2.5 - <10	H226-336	Flam. Liq. 3, STOT SE 3 NE
Ethylbenzene	202-849-4	100-41-4	2.5 - <10	H225-304-315-319-3 32-373	Acute Tox. 4 Inhalation, Asp. Tox. 1, Eye Irrit. 2, Flam. Liq. 2, Skin Irrit. 2, STOT RE 2
Bis(2-ethylhexyl) phthalate	204-211-0	117-81-7	1.0 - <2.5	H360	Repr. 1A

CAS-No.	M-Factors
1330-20-7	0
25068-38-6	0
108-10-1	0
7779-90-0	0
1309-37-1	0
14808-60-7	0
107-98-2	0
100-41-4	0
117-81-7	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

GENERAL NOTES: When symptoms persist or in all cases of doubt seek medical advice.

AFTER INHALATION: Move to fresh air.

AFTER SKIN CONTACT: Use a mild soap if available. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.

AFTER EYE CONTACT: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses.

**AFTER INGESTION:** Gently wipe or rinse the inside of the mouth with water. Give small amounts of water to drink. 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

Immediate medical attention is required. 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

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

Flash back possible over considerable distance. In the event of fire, wear self-contained breathing apparatus. Water sprayDry powderAlcohol-resistant foamCarbon dioxide (CO2). Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products formed under fire conditions. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## 6. Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment. 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

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

Please refer to disposal requirements or country specific disposal requirements for this material. See Section 8 and 13 for further information.

## 7. Handling and Storage

## 7.1 Precautions for safe handling

**INSTRUCTIONS FOR SAFE HANDLING:** Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Vapours may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limits. Electrical equipment should be protected to the appropriate standard. Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Wear personal protective equipment. Do not breathe vapours or spray mist. Use only explosion-proof equipment. Keep away from sources of ignition - No smoking.

**PROTECTION AND HYGIENE MEASURES:** 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: Direct sources of heat.

**STORAGE CONDITIONS:** Store in original container. Keep locked up or in an area accessible only to qualified or authorised persons. 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 (EU)

Name	CAS-No.	LTEL ppm	STEL ppm	STEL mg/m3	LTEL mg/m3
Xylene	1330-20-7	50	100	442	221
Reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight <= 700)	25068-38-6				
4-methylpentan-2-one	108-10-1	20	50	208	83
trizinc bis(orthophosphate)	7779-90-0				
red iron oxide	1309-37-1				
quartz (silicon dioxide)	14808-60-7				
1-methoxypropan-2-ol	107-98-2	100	150	568	375
Ethylbenzene	100-41-4	100	200	884	442
Bis(2-ethylhexyl) phthalate	117-81-7				
Name	CAS-No	OEL Note			
Mane	<u>040-110.</u>				
Xylene	1330-20-7	SK			
Reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight <= 700)	25068-38-6				
4-methylpentan-2-one	108-10-1				
trizinc bis(orthophosphate)	7779-90-0				
red iron oxide	1309-37-1				
quartz (silicon dioxide)	14808-60-7				
1-methoxypropan-2-ol	107-98-2	SKIN			
Ethylbenzene	100-41-4	SKIN			
Bis(2-ethylhexyl) phthalate	117-81-7				

FURTHER INFORMATION: Refer to the regulatory exposure limits for the workforce enforced in each country.

### 8.2 Exposure controls

Personal Protection

**RESPIRATORY PROTECTION:** Respirator with a vapor filter.

EYE PROTECTION: Tightly fitting safety goggles.

HAND PROTECTION: Rubber or plastic gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Long sleeved clothing. Remove and wash contaminated clothing before re-use. Rubber or plastic apron.

#### **OTHER PROTECTIVE EQUIPMENT:** No Information

**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

Product: 562-0025
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Appearance:	Viscous Coloured Liquid
Physical State	Liquid
Odor	Solvent
Odor threshold	Not determined
рН	Not determined
Melting point / freezing point (°C)	Not determined
Boiling point/range (°C)	64 - 138
Flash Point, (°C)	8
Evaporation rate	Slower than ether
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	1.2 - 12.3
Vapour Pressure	Not determined
Vapour density	Heavier than air
Relative density	1.36 - 1.39
Solubility in / Miscibility with water	Immiscible
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature (°C)	Not determined
Decomposition temperature (°C)	Not determined
Viscosity	80 - 100 kU
Explosive properties	Not determined
Oxidising properties	Not determined
Other information VOC Content g/I:	435
Calculated grams of VOC per liter of coating product	
Specific Gravity (g/cm3)	1.366

# 10. Stability and Reactivity

## 10.1 Reactivity

9.2

No reactivity hazards known under normal storage and use conditions.

# 10.2 Chemical stability

Stable under recommended storage conditions. Risk of ignition.

#### **10.3 Possibility of hazardous reactions** Hazardous polymerisation does not occur.

**10.4 Conditions to avoid** Direct sources of heat.

#### **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:	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:	This product contains one or more carcinogenic substances. See hazard classification and precautionary statements in Section 2 for further information.
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.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50	Gas LC50	Dust/Mist LC50
1330-20-7	Xylene	3523 mg/kg, rat, oral	12126 mg/kg, rabbitt	5000 ppm/4 hrs rat, inhalation	0.000	0.000
25068-38-6	Reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number average molecular weight <= 700)	>2000 mg/kg, rat, oral	>2000 mg/kg, rat		0.000	0.000
108-10-1	4-methylpentan-2-one	2000 mg/kg, oral, rat		5000 ppm / 1 hour, rat	0.000	0.000
7779-90-0	trizinc bis(orthophosphate)	552 mg/kg, oral rat			0.000	0.000
107-98-2	1-methoxypropan-2-ol	5180 mg/kg, oral, rat		10000 ppm/4hrs rat, inhalation	0.000	0.000
100-41-4	Ethylbenzene	3500 mg/kg rat, oral	5510 mg/kg, rabbit	4000 ppm, rat, 4h	0.000	0.000
117-81-7	Bis(2-ethylhexyl) phthalate	30,600 mg/kg, oral, rat			0.000	0.000

# 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.

# 12. Ecological Information

		<u> </u>					
12.1	12.1 Toxicity:						
EC50 48hr (Daphnia):		No info	ormation				
IC50 72hr (Algae):		No inf	ormation				
LC50 96hr (fish):		No inf	No information				
12.2 Persistence and degradability:		No inf	ormation				
12.3 Bioaccumulative potential:		No inf	No information				
12.4 Mobility in soil:		No information					
12.5 Results of PBT and vPvB assessment:			The pr	oduct does not mee	et the criteria for PBT/VP	vB in accordance with Annex XII	
12.6	Other	adverse effects:	No inf	ormation			
CAS-	No.	Chemical Name		<u>EC50 48hr</u>	<u>IC50 72hr</u>	<u>LC50 96hr</u>	
1330-	-20-7	Xylene		3.82 mg/l	No information	24-30 mg/l, minnow	
2506	8-38-6	Reaction product: bisphenol-A- (epichlorhydrin) epoxy resin (number a	iverage	No information	No information		

13. Disposal Considerations						
117-81-7	Bis(2-ethylhexyl) phthalate	No information	No information			
100-41-4	Ethylbenzene	1.37 mg/l	No information	32 mg/l (Bluegill)		
107-98-2	1-methoxypropan-2-ol	No information	No information			
14808-60-7	quartz (silicon dioxide)	No information	No information			
1309-37-1	red iron oxide	No information	No information			
7779-90-0	trizinc bis(orthophosphate)	No information	No information			
108-10-1	4-methylpentan-2-one	No information	No information			
25068-38-6	(epichlorhydrin) epoxy resin (number average molecular weight <= 700)	No information	No information			

**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. 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	Not applicable
14.3	Transport hazard class(es)	3
	Subsidiary shipping hazard	Not applicable
14.4	Packing group	PG II
14.5	Environmental hazards	Not applicable
14.6	Special precautions for user	Not applicable
	EmS-No.:	Not applicable
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code	Not applicable

# 15. Regulatory Information

# 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:	Not available

# 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:

	0 0
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.
H360	May damage fertility or the unborn child.
H370	Causes damage to organs.
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.

Date Printed: 28/08/2023

#### **Reasons for revision**

Composition Information Changed Substance and/or Product Properties Changed in Section(s): 09 - Physical and Chemical Properties 11 - Toxicological Information 14 - Transportation Information

Revision Statement(s) Changed

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.
- Joint Research Centre in Ispra, Italy.
- Regulation (EC) 1272/2008 with subsequent amendments.
- Regulation (EC) 1272/2006 with subsequent amendments.
- Commission Regulation (EU) 2020/878
- EU Council Decision 2000/532/EC and its Annex entitled "List of Wastes"
- Safety Data Sheet from raw material supplier
- The classification declared in sec. 2.2 is based on the calculation methods set out in Annex I and Annex II of the CLP Reg. 1272/2008 on the composition of the formula.

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
IMO	International Maritime Organization

Note P: The classification as a carcinogen or mutagen need not apply; the substance

Note 10:

contains less than 0,1 % w/w benzene The classification as a carcinogen by inhalation applies only to mixtures in

powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter  $\leq$  10  $\mu m$ .

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.