



MATERIAL SAFETY DATA SHEET

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COMPANY DETAILS

Name: **StonCor Africa (Pty) Ltd.**
 Address: **8 Cresset Road
 Midrand Industrial Park, Chloorkop**
 Tel: **011 254 5500**
 Fax: **011 310 2872**

EMERGENCY NO'S:

SOUTH AFRICA: **082 651 5266**
+27 11 254 5500

INTERNATIONAL:
CHEMTREC +1703 527 3887

NOTE: The Chemtrec Transportation Emergency Phone is to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

1. PRODUCT AND COMPANY IDENTIFICATION:

Trade Name: **Carboclean 253 ZA**
 Chemical Family: **Acidic liquid concrete floor etchant**
 Chemical Name:
 Synonyms:

Class : **8**
 PG.: **III**
 UN No.: **1789**

2. COMPOSITION:

Substance / Preparation :	Preparation				
Chemical Name*	Europe	CAS No.	%	EC Number	Classification
Hydrochloric Acid		7647-01-0	>50	231-595-7	T; R23/24/25 C; R34 Xi; R37

See Section 15 for the full text of the R Phrases declared above

*Occupational Exposure Limit(s), if available, are listed in Section 8

3. HAZARDOUS IDENTIFICATION:

Main hazard: **Not applicable.**
 Flammability: **Non-Flammable**
 Chemical Hazard:
 Reproductive hazard: **Not Determined**
 Eye effect : eyes: **Slightly hazardous in case of eye contact. (Irritant).**
 Health effects - skin: **Very hazardous in case of skin contact. Skin contact may produce burns. Skin inflammation is characterized by itching, scaling, reddening or occasionally blistering. May be fatal if swallowed. May cause burns to mouth, throat and stomach.**
 Health effects – ingestion: **Very hazardous in case of inhalation. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking or shortness of breath. Over-exposure by inhalation may cause respiratory irritation. May be fatal if inhaled**
 Health effects – inhalation:

4. FIRST AID MEASURES:

Product in eye: **Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, keeping eye lids open. Cold water may be used. Get medical attention immediately.**

Product on skin: **If the chemical got onto the clothed portion of the body, remove the contaminated clothes as quickly as possible, protecting your own hands and body. Place the victim under a deluge shower. If the chemical touches the victims exposed skin, such as hands, gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. If irritation persists, seek medical attention. Wash contaminated clothing before re-using.**

Product ingested: **DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as collar, tie, belt or waistband.**

Product inhaled: **If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek immediate medical attention.**

5. FIRE FIGHTING MEASURES:

Extinguishing media:	Not Applicable.
Special hazards:	No additional remarks.
Protective clothing:	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Be sure to use an approved/certified respirator or equivalent.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions:	Splash goggles. Overalls. Boots. Gloves. Vapour respirator. A self-contained breathing apparatus should be used to avoid inhalation of the product.
Environmental precautions:	Contain all spills.
Small spills:	Stop leaks if without risk. Absorb with DRY earth, sand or other non-combustible material. Use water spray to reduce vapours. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of sodium carbonate.
Large spills:	Stop leaks if without risk. Absorb with DRY earth, sand or other non-combustible material. Use water spray to reduce vapours. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of sodium carbonate

7. ACCIDENTAL RELEASE MEASURES:

Suitable material:	Stable under normal conditions.
Handling precautions:	Do not ingest. Do not breathe gas/fumes/vapour/spray. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as alkalis.
Storage precautions:	Keep container tightly closed. Keep container in a cool, well-ventilated area. Corrosive materials should be stored in a separate safety storage cabinet or room.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Occupational Exposure Limits:	ACGIH TLV (United States). Notes: Weight averaged theoretically calculated. CEIL: 5ppm TWA: 5 mg/m³
Engineering Control measures:	Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapours below their respective occupational exposure limits. Ensure that eyewash station and safety showers are proximal to the work-station location.
Hygiene Measures:	Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and after the end of day.
Personal Protection–respiratory:	Vapour respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.
Personal Protection–hand:	Gloves.
Personal Protection–eye:	Face shield.
Personal Protection–skin:	Overalls
Other Protection:	None

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Light yellow liquid
Odour:	Acidic
PH:	<1 (Conc. (% w/w): 100) [Acidic.]
Boiling Point:	Weighted average: 108.71°C
Melting Point:	Weighted average: -24.20°C
Flash Point:	Not Applicable.
Flammability:	Not Flammable
Auto-flammability:	Not Flammable
Explosive Properties:	Not a high explosion risk.
Oxidising Properties:	Not Applicable
Vapour Pressure:	Weighted average: 0.85kPa (at 20°C)
Density:	1.1 -1.2
Solubility - water:	Easily soluble in cold water and hot water.
Solubility - solvent:	Easily soluble in methanol, acetone. Insoluble in diethyl ether, n-octanol.

The information contained herein relates only to the specific material identified. Stoncor Africa (Pty) Ltd believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, expressed or implied, is made as to the accuracy, reliability, or completeness of the information.

10. STABILITY AND REACTIVITY:

Conditions to avoid:	No additional remarks
Incompatible materials:	Extremely reactive or incompatible with alkalis. Highly reactive with metals. Reactive with moisture. Slightly reactive to reactive with acids.
Hazardous decomposition Products:	No additional remarks

11. TOXICOLOGICAL INFORMATION:

Acute Toxicity:	Acute oral toxicity (LD50): 900 mg/kg [Rat – Weighted average theoretically calculated].
Skin and eye contact:	Extremely hazardous in case of skin contact (corrosive) Extremely hazardous in case of eye contact (irritant)





12. ECOLOGICAL INFORMATION:

Aquatic toxicity - fish:	(LC50): 282 mg/l [Weighted averaged theoretically calculated], 96 hours
Aquatic toxicity - daphnia:	Not Determined
Aquatic toxicity - algae:	Not Determined
Biodegradability :	BOD and COD
Bio-accumulation :	Not Determined
Mobility :	Not Determined

13. DISPOSAL CONSIDERATIONS:

Disposal methods :	In accordance with local regulations.
Disposal of packaging :	In accordance with local regulations.

14. TRANSPORT INFORMATION:**International Transport Regulations**

Regulatory Information	UN Number	Proper Shipping Name	Class	Packaging Group	Label	Additional Information
ADR/RID Class Land-Road/Railway	1825	(Hydrochloric Acid)	ADR CLASS 8: Corrosive liquid Acid	III		No Additional remarks
ADN Class Inland Waterways	1825	(Hydrochloric Acid)	8	III		-
IMDG Sea	1825	(Hydrochloric Acid)	8	III		-
IATA-DGR Class Air	1825	(Hydrochloric Acid)	IATA CLASS 8: Corrosive liquid Acid	III		-

15. REGULATORY INFORMATION:**EU Regulations**

Hazard Symbol(s) :



Classification:

Corrosive, Toxic

Risk Phases:

R21/22 – Harmful in contact with skin and if swallowed.**R23 – Toxic by inhalation.****R35 – Causes severe burns.**

Safety Phases:

R37 – Irritating to respiratory system.**S1/2 – Keep locked up and out of the reach of children.****S26 – In case of contact with eye, rinse immediately with plenty of water and seek medical advice.****S36/37/39 – Wear suitable protective clothing, gloves and eye/face protection.**

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S45 – In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S63 – In case of accident inhalation, Remove casualty to fresh and keep at rest.

Contains:

Hydrochloric Acid

Product use:

Classification and labelling have been preformed according to EU directives 67/548/EEC, 1999/45/EC including amendments and intended use. Consumer Application.

16. OTHER INFORMATION: