



MATERIAL SAFETY DATA SHEET

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COMPANY DETAILS

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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 252 ZA**
 Chemical Family: **High Alkaline Liquid Degreaser.**
 Chemical Name:
 Synonyms:

Class : **8**
 PG.: **II**
 UN No.: **1824**

2. COMPOSITION:

Substance / Preparation :	Preparation				
Chemical Name*	Europe	CAS No.	%	EC Number	Classification
Sodium Hydroxide		1310-73-2	10 – 18	215-185-5	Xi; R38, 41, 43
1-Methoxy-2-Propanol		107-98-2	1 – 3	203-539-1	R10

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: **Corrosive to eyes.**
 Health effects - skin: **Corrosive and hazardous to skin on contact may produce burns.**
 Health effects – ingestion: **Hazardous in case of ingestion.**
 Health effects – inhalation: **Hazardous in case of inhalation.**

4. FIRST AID MEASURES:

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

Product on skin: **In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cold water may be used. Wash clothing before re-use. Thoroughly clean shoes before re-use. Get medical attention.**

Product ingested: **DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt, or waistband. Get medical attention if symptoms appear.**

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

5. FIRE FIGHTING MEASURES:

Extinguishing media: **Small Fire: Use DRY chemical powder.**
Large Fire: Use alcohol foam, foam spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, auto-ignition or explosion.

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.**

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6. ACCIDENTAL RELEASE MEASURES:

Personal precautions:	Splash goggles. Overalls. Vapour respirator. Boots. Gloves.
Environmental precautions:	Contain all spills.
Small spills:	Stop leaks if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not spill materials. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of acetic acid. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system
Large spills:	Stop leaks if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not spill materials. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Neutralize the residue with a dilute solution of acetic acid. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system

7. ACCIDENTAL RELEASE MEASURES:

Suitable material:	Stable under normal conditions.
Handling precautions:	Ground all equipment containing material. Do not ingest. Do not breathe gas/fumes/vapor/spray. In case of insufficient ventilation, wear suitable 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 acids.
Storage precautions:	Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

Occupational Exposure Limits:	ACGIH TLV (United States, 2003). Notes: Weight averaged theoretically calculated. TWA: 125mg/m³ 8 Hour(s).
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 after handling compounds and before eating, smoking, using lavatory, and after the end of day.
Personal Protection–respiratory:	Wear appropriate respirator when ventilation is inadequate.
Personal Protection–hand:	Impervious gloves.
Personal Protection–eye:	Face shield.
Personal Protection–skin:	Overalls
Other Protection:	None

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Light Amber Liquid
Odour:	Slight
PH:	12.4 (Conc. (% w/w): 100) [Basic]
Boiling Point:	Weighted average: 100.5°C
Melting Point:	Weighted average: -2.4°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: 2.29 kPa (at 20°C)
Density:	1.18
Solubility - water:	Easily soluble in cold water and hot water.
Solubility - solvent:	Easily soluble in methanol, acetone and very slightly soluble in diethyl ether.

10. STABILITY AND REACTIVITY:

Conditions to avoid:	Reactive with oxidizing agents, reducing agents, metals, acids, alkalis
Incompatible materials:	Extremely corrosive in presence of aluminium, brass. Corrosive in presence of copper, of stainless steel (304), of stainless steel (316). Non-corrosive in presence of glass.
Hazardous decomposition Products:	Not Applicable

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11. TOXICOLOGICAL INFORMATION:

Acute Toxicity:	Acute oral toxicity (LD50): >5000 mg/kg [Rat – Weighted average theoretically calculated]. Acute dermal toxicity (LD50): 13000 mg/kg [Rabbit]. (1-Methoxy-2-propanol).
Skin and eye contact:	Hazardous in case of skin contact (corrosive), Hazardous in case of eye contact (corrosive)





12. ECOLOGICAL INFORMATION:

Aquatic toxicity - fish:	(LC50): 769 mg/l [Weighted averaged theoretically calculated], 96 hours
Aquatic toxicity - daphnia:	Not Determined
Aquatic toxicity - algae:	Not Determined
Biodegradability :	BOD and COD
Bio-accumulation :	The BOD is 10300 ppm [5 day(s)] Weight average theoretically calculated.]
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	(Sodium Hydroxide)	ADR CLASS 8: Corrosive Substance	II		No Additional remarks
ADN Class Inland Waterways	1825	(Sodium Hydroxide)	8	II		-
IMDG Sea	1825	(Sodium Hydroxide)	8	II		-
IATA-DGR Class Air	1825	(Sodium Hydroxide)	IATA CLASS 8: Corrosive Substance	II		-

15. REGULATORY INFORMATION:**EU Regulations**

Hazard Symbol(s) :



Classification:

Corrosive

Risk Phases:

R35 – Causes severe burns.

Safety Phases:

S1/2 – Keep locked up and out of reach of children.**S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical attention****S36/37/39 – Wear suitable protective clothing, gloves and eye/face protection.****S45 – In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).**

Product Use:

Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC including amendments and intended use.**16. OTHER INFORMATION:**