



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 251 ZA**
Chemical Family: **Non-abrasive liquid acid detergent**
Chemical Name:
Synonyms:

Class : **8**
PG.: **III**
UN No.: **1805**

2. COMPOSITION:

Substance / Preparation :	Preparation				
Chemical Name*	Europe	CAS No.	%	EC Number	Classification
2-Butoxy Ethanol		111-76-2	<10	203-905-0	Xn; R20/21/22 Xi; R37
Phosphoric Acid		7664-38-2	30 – 60	231-633-2	Xn; R22 C: 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: **Very hazardous in case of eye contact. (irritant) Slightly hazardous in case of eye contact (corrosive). Inflammation of the eye is characterized by redness, watering and itching.**
Health effects - skin: **Hazardous in case of skin contact. (Corrosive, irritant)**
Health effects – ingestion: **May cause burns to mouth, throat and stomach.**
Health effects – inhalation: **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.**

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. Do not use an eye ointment. 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. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention. Have conscious person drink several glasses of water or milk.**

Product inhaled: **Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.**

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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.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions:	Splash goggles. Overalls. Boots. Gloves. Vapour respirator.
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. TWA: 10.3 mg/m³ minute(s). Form: vapour or mist. STEL: 3.4 mg/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, 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:	Clear to slightly hazy liquid (water white)
Odour:	Not detectable
PH:	1.8 – 2.2 [Acidic.]
Boiling Point:	Weighted average: 114.44°C
Melting Point:	Weighted average: -2.88°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: 1.62kPa (at 20°C)
Density:	1.29 -1.32

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Solubility - water: **Easily soluble in cold water and hot water.**
 Solubility - solvent: **Easily soluble in methanol.**

10. STABILITY AND REACTIVITY:

Conditions to avoid: **No additional remarks**
 Incompatible materials: **Highly reactive with alkalis. Slightly reactive with oxidizing agents, organic materials.**
 Hazardous decomposition Products: **These products are carbon oxides (CO, CO₂)**

11. TOXICOLOGICAL INFORMATION:

Acute Toxicity: **Acute oral toxicity (LD50): 2850 mg/kg [Rat – Weighted average theoretically calculated.].
 Acute dermal toxicity (LD50): 400 mg/kg [Rabbit.]. (2-Butoxy Ethanol).**
 Skin and eye contact: **Hazardous in case of skin contact (corrosive, irritant), Hazardous in case of eye contact (corrosive)**





12. ECOLOGICAL INFORMATION:

Aquatic toxicity - fish: **(LC50): 60 mg/l [Weighted averaged theoretically calculated], 96 hours**
 Aquatic toxicity - daphnia: **Not Determined**
 Aquatic toxicity - algae: **Not Determined**
 Biodegradability : **BOD and COD**
The BOD is 12000ppm [5 day(s)] Weighted averaged theoretically calculated
 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	1805	(Phosphoric Acid)	ADR CLASS 8: Corrosive liquid Acid	III		No Additional Remarks
ADN Class Inland Waterways	1805	(Phosphoric Acid)	8	III		-
IMDG Sea	1805	(Phosphoric Acid)	8	III		-
IATA-DGR Class Air	1805	(Phosphoric Acid)	IATA CLASS 8: Corrosive liquid Acid	III		-

15. REGULATORY INFORMATION:**EU Regulations**

Hazard Symbol(s) :



Classification:

Corrosive

Risk Phases:

R34 – Causes burns.

Safety Phases:

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).

S51 – Use only well-ventilated areas.

Contains:

Phosphoric Acid

Product use:

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

16. OTHER INFORMATION: