NC 200

Boiler Alkalinity Builder

Safety Data Sheet

Product	Document	Use	Manufactured in
NC 200	**Safety Data Sheet**	**Boiler water alkalinity builder**	**Umm Al Quwain, UAE**

1 Identification of the product and company

Product	NC 200
Use	Boiler water alkalinity builder
Supplier	Novachem Chemical Industries L.L.C. P.O. Box 27304, Umm Al Quwain, United Arab Emirates
Telephone	+971 6 5399379
Email	info@novachemuae.com
Website	www.novachemuae.com

2 Composition / information on ingredients

Chemical name	%	CAS No.	Symbol	R-phrases
Aqueous solution containing:				
Sodium hydroxide	30 – 50	1310-73-2	C	35

The exact chemical identity has been withheld as a trade secret.

3 Hazards identification

Symbol	CORROSIVE (C).
Risk phrases	Causes severe burns.
Routes of exposure	Ingestion, skin contact, inhalation.
Symptoms of exposure	**Skin contact:** severe irritation, pain, burns, possible deep ulceration, severe damage. **Eye contact:** severe damage and even blindness very rapidly. **In case of inhalation:** nasal and respiratory damage. **In case of swallowing:** severe damage to the mucous membranes and deep tissues.
Further information	Prolonged or repeated contact may cause: deflating.

4 First-aid measures

Skin contact	After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. If redness or irritation persists: seek medical advice.
Eye contact	Remove contact lenses. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue treatment until medical assistance is provided.
Ingestion	Rinse mouth. Give at least two glasses of water to drink (dilution). Do NOT induce vomiting. Get medical attention immediately. NEVER give anything by mouth to an unconscious person.
Inhalation	Move person to fresh air. If breathing is difficult, seek medical attention. Excessive inhalation may cause lung oedema, which may become manifest after a few hours and which is aggravated by physical exertion: rest and hospitalisation are essential.

5 Fire-fighting measures

Suitable extinguishing media	No special media required.
Not to be used	Not applicable.
Special precautions	None.
Protective equipment	Wear self-contained breathing equipment and protective clothing.
Explosion hazards	Not applicable.
Fire hazards	Reacts with most metals to release hydrogen gas which can form explosive mixtures with air.
Hazardous decomposition products	Not applicable.

See also section 10, Stability and reactivity.

6 Accidental release measures

Protective equipment	See section 8, Exposure controls / personal protection.
Small spills	Small spills and remainder can be absorbed on inert material like sand, earth, vermiculite, etc. Collect the spill in a suitable container. Flush the area with plenty of water.
Large spills	Dike material to prevent spreading or run-off to open bodies of water. Neutralisation method: dilute by adding (6M) hydrochloric acid pH 7 and flush down drain by excess water (where allowed by local authorities).

7 Handling and storage

Handling	Use only in well-ventilated areas. Keep away from acidic materials.
Storage	Keep from freezing. Keep container tightly closed, keep away from acidic materials.

8 Exposure controls / personal protection

Skin	Wear suitable gloves, with extra long cuffs. **Preferred material:** nitrile rubber, neoprene, PE, PVC.
Eyes	Wear eye/face protection. **Preferred type:** close-fitting safety goggles. If splashing is likely to occur wear a full face-shield.
Respiratory tract	Do not breathe gas/fumes/vapour/spray. In case of insufficient ventilation, wear suitable respiratory equipment.

9 Physical and chemical properties

Not to be taken as product specifications.

Appearance	Clear to hazy liquid.
Colour	Colourless to pale yellow.
Odour	Odourless.
Boiling point	100 °C
Freezing / melting point	12 °C
Specific gravity	1.45 ± 0.05
Flash point	None.
Auto-ignition temperature	None.
Explosion limits (% vol)	**Lower:** none. **Upper:** none.
Volatile component(s)	Not applicable.
Vapour pressure	As for water: 23 mbar (at 20 °C).
Evaporation rate	Slower than ether.
pH	13 ± 0.2
Solubility in water	Complete.

10 Stability and reactivity

Chemical stability	Stable.
Hazardous polymerisation	No polymerisation possible.
Conditions to avoid	None applicable.
Materials to avoid	Acidic materials, metals like: aluminium, zinc.
Hazardous decomposition products at normal use	None.

11 Toxicological information

See section 3, Hazards identification.

Acute oral toxicity, LD_{50} (rat)	No specific test data available.
Acute dermal toxicity, LD_{50} (rabbit)	No specific test data available.

12 Ecological information

Toxicity to water organisms	Fish toxicity: pH > 9.2 Toxicity to algae: pH > 8.5 Toxicity to daphnia: pH > 9.1
(Bio)degradability	Not applicable.
BOD_5	Not applicable.
COD	Not applicable.
Additional information	The pH changes may be harmful to aquatic and soil organisms.

13 Disposal considerations

Waste disposal	Spills and excess chemicals should be treated as chemical waste and disposed of in accordance with all current special waste regulations. Contact a certified firm for proper disposal.

14 Transport information

UN number	1824
Road (ADR)	**Class:** 8 **Packing group:** II **Shipping name:** SODIUM HYDROXIDE SOLUTION **TREMcard No.:** 80S1824
Sea (IMDG)	**Class:** 8 **Packing group:** II **EmS:** 8-06 **Shipping name:** SODIUM HYDROXIDE SOLUTION
Air (ICAO / IATA-DGR)	The IATA instruction is subject to annual revision. Contact your local supplier.

15 Regulatory information

Labelling requirements	CORROSIVE (C).
Chemical description	Mixture containing: sodium hydroxide.
Risk phrases	R-35 Causes severe burns.

Safety phrases	S-26-27-37/39-45 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Take off immediately all contaminated clothing. Wear suitable gloves and eye/face protection. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

16 Other information

R-phrases of ingredients	**Sodium hydroxide:** 35. Causes severe burns.
Trade name	NC 200 is a trade name of Novachem Chemical Industries L.L.C.

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