

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : ALKALINITY CONTROL
PRODUCT TYPE : Boiler water treatment

COMPANY : UNI AMERICAS L.L.C.
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United States of America
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2. COMPOSITION/INFORMATION ON INGREDIENTS

1. Sodium hydroxide CASnr: 1310-73-2

3. HAZARDS IDENTIFICATION

HUMAN HEALTH : Corrosive to eyes and skin

RISK CLASSIFICATION : Corrosive R-35 Causes severe burns

ENVIRONMENTAL HAZARDS : Do not let down into the environment without thinning and neutralisation.

4. FIRST AID MEASURES

INHALATION : Remove to fresh air. Keep the patient calm. Transport to a hospital.

SKIN : Take of contaminated clothing immediately. Wash the skin with large amounts of water. Consult a physician.

EYE : Flush with large amounts of water. Seek medical advice.

INGESTION : Wash the mouth with water. Do **NOT** induce vomiting. Give 2 glasses of water to drink. Transport to a hospital.

5. FIRE FIGHTING MEASURES

FLASH POINT : None

SPECIFIC HAZARDS : See under 9

EXTINGUISHING MEDIA : No limitations. The product does not burn.

6. ACCIDENTAL RELEASE MEASURES

- CLEANING -UP** : Absorb spills in sand, earth or other inert material. Dispose of the material according to local regulations. Scrub contaminated surfaces with detergent solution.
- ENVIRONMENTAL PRECAUTION** : Prevent contamination of soil and water.
Do not let down into the environment without thinning and neutralisation.

7. HANDLING AND STORAGE

- HANDLING** : Do not breathe vapours or mists. Use in well ventilated areas.
- STORAGE** : Keep in closed containers, in a dry place and frost free. Avoid contact with acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- MAK** : 2 mg/m³.
- PREVENTIVE MEASURES** : Clean contaminated clothing before re-use. Use in well ventilated areas.
- PERSONAL PROTECTIVE EQUIPMENT** : Wear suitable protective clothing, eye protection and chemical resistant gloves. Wear breathing protection when spraying the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

- APPEARANCE** : Clear liquid
- ODOUR** : Neutral
- FLASH POINT** : None
- pH** : > 13
- BOILING POINT** : 100 °C
- DENSITY (20°C)** : 1.2
- SOLUBILITY** : Miscible with water, not miscible with organic solvents

10. STABILITY AND REACTIVITY

- STABILITY** : Stable min 2 years at ambient temperature if stored in closed container,
- REACTIVITY** : Avoid contact with acids and metals.
- HAZARDOUS DECOMPOSITION PRODUCTS** : Thermal decomposition may yield the following:
Hydrogen.

11. TOXICOLOGICAL INFORMATION

Information given is based on a knowledge of the constituents and the toxicology of similar substances.

ORAL	:	Corrosive, stomach ache, diarrhoea, risk of perforation of the stomach. LDLo (Rabbit) = 1500 mg/kg
SKIN CONTACT	:	Corrosive, redness, pain, severe burns. LD50 (Rabbit) = 1500 mg/24Hr
EYE CONTACT	:	Corrosive, loss of sight, severe burns.
INHALATION	:	Corrosive, throat ache, coughing, short of breath.

12. ECOLOGICAL INFORMATION

Information given is based on knowledge of the constituents and the toxicology of similar substances.

Raise of pH can disturb the biological equilibrium in the aquatic environment. Do not let down into the environment without thinning and neutralisation

EG	:	011-002-01-3
SYMBOL	:	Corrosive
R-PHRASES	:	35
S-PHRASES	:	37/39,2,26,27

13. DISPOSAL CONSIDERATIONS

Dispose of according to local regulations. Contaminated product is to be regarded as chemical waste.

14. TRANSPORT INFORMATION

UN-number	:	1824
ADR	:	8.42b)
IMO	:	8/II

15. REGULATORY INFORMATION

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SYMBOL	:	Corrosive
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16. OTHER INFORMATION

The information contained herein relates only to the specific material identified. Uniam believes that such information is accurate and reliable as of the date of this material safety data sheet, but no representation, guarantee or warranty, express or implied, is made as to the accuracy, reliability, or completeness of the information. Uniam urges persons receiving this information to make their own determination as to the information's suitability and completeness for their particular application.

January 1, 2009