

**I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION****PRODUCT NAME: AQUA CARE 121**

**SUPPLIER:** KASWA CHEMICAL.  
House No 299  
Samanabad  
Faisalabad Pakistan  
Tel:

**PRODUCT USE:** Boiler treatment**II. COMPOSITION/ INFORMATION ON INGREDIENTS**

Chemical Identity: EINECS # CAS # % Conc.  
Sodium hydroxide 215-185-5 1310-73-2 7 - 13  
Ingredients according to Directive 2004/648/EC  
None

**III. HAZARDS IDENTIFICATION**

Hazard classification of product, Corrosive  
Hazards for humans: Causes burns.  
Hazards for environment: Strongly alkaline, pH value of water can harm water-organisms.

**IV. FIRST AID MEASURES**

Contact with skin: Wash exposed area with soap and water and rinse well.  
Contact with eyes: Flush with plenty of water. Get medical attention if irritation persists.  
Inhalation: Not applicable.  
Ingestion: If victim is conscious, give two glasses of water to drink. Call a physician. Do not give anything by mouth to an unconscious person.

**V. FIRE FIGHTING MEASURES**

Conditions of flammability: Not flammable.  
Means of extinction: Not applicable.  
Hazardous combustion products: Not applicable.  
Unusual fire and explosion hazards: None

**VI. ACCIDENTAL RELEASE MEASURES**

Procedures to be followed in case of spills or leaks: Small amounts - Flush with water.  
Large amounts - Contain spill and collect into waste container. Absorb remaining product with earth or sand and dispose of with solid waste. Flush spill area with water.  
Personal protective equipment to be used: Protective gloves and safety glasses.

**VII. HANDLING AND STORAGE**

Special handling procedures and equipment: Not applicable.  
Specific storage requirements: Not applicable.

**VIII. EXPOSURE CONTROL/PERSONAL PROTECTION**

Respiratory Protection: Not applicable.  
Protective Gloves: Rubber or neoprene.  
Eye Protection: Safety glasses.  
Additional Protective Equipment: Not applicable.  
Ventilation: Use with adequate ventilation for misting operations.

**IX. PHYSICAL AND CHEMICAL PROPERTIES**

Flashpoint and method of determination: >93.3°C (C. O.C.)  
Flammable limits (% in air): LOWER: Not applicable. UPPER: Not applicable.  
Auto-Ignition temp.: Not applicable.  
Physical State: Liquid Vapour density: Not available.  
Coefficient of n-octanol/water distribution: Not available.  
Odour: None Boiling Point: 103°C  
Specific Gravity: 1.10 Freezing Point: -5°C

# MATERIAL SAFETY DATA SHEET

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Vapour Pressure: Not available.  
Evaporation Rate: Not available.  
Solubility in water: Complete

pH: 11.8 - 12.5  
Colour: Yellow  
Odour threshold: Not available.

## X. STABILITY AND REACTIVITY

Chemical stability: Stable under normal conditions. Hazardous polymerization will not occur.  
Incompatible substances: Avoid strong oxidizing and reducing agents.  
Conditions of reactivity: Avoid contamination with reactive substances.  
Hazardous decomposition products: None

## XI. TOXICOLOGICAL INFORMATION

Probable route of exposure: Splashes on skin.  
Exposure Limits: LD (Calculated) 5000 mg/kg  
Effect of acute and chronic exposure to product: Causes burns.  
Irritating: No.  
Sensitisation to product: No  
Carcinogenicity: Data not available.  
Reproductive toxicity: Data not available.  
Teratotoxicity: Data not available.  
Mutagenicity: Data not available.  
Name of toxicologically synergistic product(s): Data not available.

## XII. ECOLOGICAL CONSIDERATIONS

Environmental toxicity information: Product conforms to the regulations regarding the biodegradability of the surfactants.

## XIII. DISPOSAL CONSIDERATIONS

For the product: (waste from the manufacture, formulation, supply and use of sodium hydroxide).  
For the packaging:  
(plastic packaging). Can be recycled.

## XIV. TRANSPORT INFORMATION

### CARRIAGE BY ROAD (CROSSING BORDERS) ADR/RID:

C9ADR/RID Class:8

Hazard Identification Number:80  
UN Number:1760  
Packing group:III  
Label:8  
UN proper shipping name:CORROSIVE LIQUID, N.O.S. (Sodium Hydroxide)

### TRANSPORT BY SEA IMDG:

IMDG Class: 8  
UN Number: 1760  
Packing group: III  
EMS Number: F-A, S-B  
Label: 8  
Marine pollutant: No

UN proper shipping name: CORROSIVE LIQUID, N.O.S. (Sodium Hydroxide)

### TRANSPORT BY AIR ICAO-TI and IATA-DGR:

ICAO/IATA Class: 8  
UN Number: 1760  
Packing group: III  
Label: 8

UN proper shipping name: CORROSIVE LIQUID, N.O.S. (Sodium Hydroxide)