



1 IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product name: **AS 28**
Use/description of product: Boiler water additive (Alkalinity Builder Formula)

Company name: Aqua Services (UK)
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2 COMPOSITION / INFORMATION ON INGREDIENTS

| Name | EC No | CAS No | Content | Classification |
|---------------------|-----------|-----------|---------|----------------|
| Sodium Hydroxide | 215-185-5 | 1310-73-2 | 24% | C144 |
| Sodium Polyacrylate | N/A | 9003-04-7 | <12% | N/A |
| Diphosphonic acid: | 220-552-8 | 2809-21-4 | <4% | Xi |

The full text for all R-phrases is displayed in Section 15.

3 HAZARDS / IDENTIFICATION

Physical/chemical hazards: Corrosive
Human health hazards: Causes severe burns

4 FIRST AID MEASURES

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. Seek medical attention if any discomfort continues.

Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

Ingestion: Immediately rinse mouth and drink plenty of water. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

Inhalation: Remove victim from source of exposure. Move into fresh air and keep at rest. Seek medical attention if any discomfort continues.

5 FIRE-FIGHTING MEASURES

Extinguishing media: Extinguish with alcohol – resistant foam, carbon dioxide, dry powder or water fog.

Special Fire Fighting

Protective Equipment: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions: Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and aerosol spray. Provide adequate ventilation.

Environmental

Precautions: Spillages or uncontrolled discharges into water courses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

Spill clean-methods: Absorb with inert, damp, non-combustible material, and then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

7 HANDLING AND STORAGE

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Usage precautions: Provide good ventilation. Avoid spilling, skin and eye contact.

Storage precautions: Keep container tightly closed. Corrosive storage.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredient comments: Sodium hydroxide-OES 2mg/m³
OES= Occupational Exposure Standard. Note L



Hand protection: Safety Gloves made from nitrile rubber.

Eye protection: Goggles/ Face Shield. Eye wash bottles should be present.

Other protection: If ventilation is insufficient then suitable respiratory protection must be provided. Wear rubber apron and wear rubber footwear.

Hygiene measures: Promptly remove clothing that becomes contaminated. Wash promptly if skin contaminated. When using, do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid

Colour: Colourless

Odour: Odourless

Solubility: Soluble in water

PH Value: 13.5

Boiling Point: >106 °C

Density at 25°C: 1.27 – 1.29

Hazard Group: Corrosive materials non flammable

10 STABILITY AND REACTIVITY

Stability: Stable under normal temperature conditions and recommended use.

Thermal Dissolution: Avoid excessive heat for prolonged periods of time. Avoid strong acids and other halogenated organics.

11 TOXICOLOGICAL INFORMATION

| | |
|------------------|---|
| Skin contact: | Prolonged contact may cause redness and irritation, causes severe burns. |
| Eye contact: | Extreme irritation of eyes and mucous membranes, including burning and tearing. Causes burns. |
| Ingestion: | May cause chemical burns in mouth, oesophagus and stomach. |
| Inhalation: | Vapours may irritate throat and respiratory system causing coughing. |
| Acute ingestion: | LD50:500mg/kg (oral, rat) |

12 ECOLOGICAL INFORMATION

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|--------------------------------|---|
| Persistence and degradability: | The product is biologically degradable. |
| Eco-toxicity effects: | Toxic to aquatic life. |

13 DISPOSAL CONSIDERATIONS

| | |
|-------------------|--|
| Disposal methods: | When handling waste, consideration should be made to the safety precautions applying to handling of the product. Protective equipment must be worn. Immediately remove spill and rinse with plenty of water. Larger quantities must be delivered to municipal receiving station for chemical waste with a declaration regarding oil and chemical waste. Labels should not be removed from the container before it has been cleaned. Empty containers should be rinsed with water and must under all circumstances be transported in a closed container. Dispose of waste and residues in accordance with local authority requirements. |
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14 TRANSPORT INFORMATION

| | |
|-------------------------|---------------------------|
| Issue Date: | 23/04/2015 REV 5 AS 28 |
| Land Transport ADR/RID: | 80 |
| UN No: | 1824 |
| Class/Item No: | 8 |
| Packing Group: | II |
| Designation of goods: | Caustic Soda Solution |
| Sea Transport: | |
| UN No: | 1824 |
| IMDG/GGVS/E: | 8 |
| Packing Group: | II |
| EmS No: | F-A, S-B |
| Technical name: | Sodium Hydroxide Solution |
| Remarks: | Protect from heat |
| Air Transport: | |
| ICAO/IATA Class: | 8 |
| Packing Group: | II |
| UN Air No: | 1824 |





15 REGULATORY INFORMATION

| | |
|-----------------|---|
| Labelling: | Corrosive |
| EC Regulations: | 215-185-5 |
| Risk phrases: | R35 Causes severe burns. |
| Safety phrases: | S24/25 Avoid contact with skin and eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. 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. S60 This material and its container must be disposed of as hazardous waste. |

16 ADDITIONAL INFORMATION

Legal disclaimer: The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Aqua Services (UK) shall not be held liable for any damage resulting from handling or from contact with the above product.

Other information: The information contained in this MSDS does not constitute an assessment of workplace risks. The customer should undertake a formal COSHH assessment which should ensure that employees are aware of the hazards/precautions detailed in this MSDS. The COSHH assessment should also ensure that recommended safety equipment is available and, where applicable, that the exposure limits detailed in Section 8 are not being exceeded.