

AGROSERVE LTD SAFETY DATA SHEET

ALKASAN

8 % W/V AVAILABLE CHLORINE

1. Identification of the Substance and Company

Product Name: ALKASAN
 Identification: Sodium hypochlorite solution, 8 % w/v available chlorine
 Alternative Name: Bleach liquor
 Company Details: Agrosolve Ltd,
 Wylle Works, Watery Lane, Bishopstrow,
 Warminster, Wiltshire BA12 9HT England
 Tel: +44(0)1985 216444 Fax: +44(0)1985 216692
e-mail: info@agrosolve.co.uk
 24 Hour Emergency Information:
 Tel. No. + 44 (0) 207 358 9167

2. Composition/Information on Ingredients

Sodium hypochlorite solution 8 % w/v available chlorine CAS No. 7681-52-9

3. Hazard Identification

Corrosive
 Contact with acids liberates toxic gas
 Causes burns

4. First Aid Measures

Inhalation: Remove to fresh air. Keep warm and at rest. If there is respiratory distress give oxygen. If respiration stops or is failing give artificial respiration. Do not use mouth to mouth ventilation. Obtain medical attention urgently.
Eye Contact: Rinse with plenty of water. Obtain medical attention.
Skin Contact: Wash thoroughly with plenty of water. Remove affected clothing immediately. If blistering occurs or irritation persists seek medical attention.
Ingestion: Wash out mouth with water, give plenty of water to drink. Do not induce vomiting. Obtain medical attention.
 Treatment may be needed for pain and shock.

5. Fire Fighting Measures

Sodium hypochlorite solution is non-flammable. Keep containers cool by water spray. Heat may cause production of toxic gas (chlorine).

6. Accidental Release Measures

Avoid skin/eye contact. Wear suitable protective clothing including gloves, rubber boots and goggles.
 Methods for cleaning up:
 Small spillages: treat with sodium sulphite, wash residues away with water. Collect and treat all water used in cleanup.
 Large spillages: prevent product reaching drains or water courses. Contain spillage using earth or sand. Pump into an emergency tank. Dispose of, if necessary, using licensed waste disposal contractors. Wash down area with water. Collect and treat all water used in cleanup.
 If spillages or contaminated washings cause pollution of water courses, drains or vegetation inform the relevant authorities.

7. Handling and Storage

Wear protective clothing and equipment. Avoid skin and eye contact.
 Store product in original packaging and keep closed. Keep away from acids. Keep cool and away from sunlight. Protect from frost.
 Keep away from contact with metals. Product decomposes slowly on standing.

8. Exposure Controls/Personal Protection

Personal protective equipment: PVC suit (minimum of apron) PVC or rubber boots and gloves, chemical goggles.
 Exposure limits: None Assigned (EH40 2007) *Chlorine (gas): 1.5 mg m⁻³ (EH40 2007)*

9. Physical and Chemical Properties

Appearance: Clear, green-yellow liquid
 Density: 1170-1250 kg m⁻³ at 20 °C
 Odour: Characteristic chlorine odour
 Molecular Weight: 74.44 (NaOCl)
 Solubility: Completely soluble in water
 Melting point: Liquid at ambient, solidifies at -25 °C. Sodium Chloride crystals form at low temperatures, do not expose to frost.
 Boiling point: Approximately 107 °C

Vapour pressure: Similar to water at ambient temperatures.
Flash point: Not applicable - non-flammable.

10. Stability and Reactivity

Stability:

Product decomposes over time. See Section 7: Handling and storage.

Hazardous Reactions:

Decomposes violently with rapid evolution of chlorine if mixed with acids.

Exothermic decomposition in contact with sodium or hydrogen peroxides - liberates oxygen.

Other oxidising agents: may cause evolution of oxygen or chlorine.

Readily oxidises most organic matter and dangerous reactions are possible with alcohols, aldehydes, ketones, unsaturated hydro- and halocarbons.

Explosive reactions are possible with ammonia and ammonium compounds.

Hazardous decomposition products:

Chlorine (if mixed within compatible materials as shown above).

11. Toxicological Information

Effects:

On Eyes: Liquid: severe damage even on short duration. Vapour: irritation

On Skin: Liquid: severe irritation and burns if contact is prolonged. Vapour: little or no effect.

Skin adsorption: No systemic effects by any route of exposure.

Ingestion: Severe irritation and corrosion of mouth, throat and digestive tract.

Inhalation: Exposure of the mist or spray causes irritation of the nose, throat and respiratory tract.

12. Ecological Information

1 ppm available chlorine is toxic to all fish.

0.4 ppm available chlorine is toxic to game fish.

13. Disposal Considerations

Spillages: Wear protective clothing. See Section 8 (Exposure controls/personal protection).

See Section 6 (Accidental release measures).

Waste: Dispose of sodium hypochlorite solutions or materials contaminated with sodium hypochlorite using a licensed contractor in accordance with waste disposal regulations.

14. Transport Information

UN Number: 1791

Road/Rail: ADR/RID Class 8 Packing Group III

Sea: IMDG 8/III (Class/Packing group)

15. Regulatory Information

The products have been classified under the UK CHIP 2002 regulations corresponding to European Council Dangerous Substances Directive and the Dangerous Preparations Directive. Sodium hypochlorite solutions 8 % w/w available chlorine are classified as Corrosive, C, and will carry the following label:

Risk Phrases:

R31: Contact with acids liberates toxic gas

R34: Causes burns

Safety Phrases:

S1/2 Keep locked up and out of reach of children

S28 After contact with skin, wash immediately with plenty of water

S45 In case of accident or if you feel unwell, seek medical advice immediately

(show label

where possible)

S50 Do not mix with acids

EC Number for label: 231-668-3



CORROSIVE

16. Other Information

The information in this sheet is believed to be accurate and is given in good faith. However, if you are a **supplier** of this product, there are due diligence checks which you have to make. As a supplier, you are responsible for the accuracy of the Safety Data Sheet.

Users of this product have a responsibility to make their own assessment of workplace risks as required by health and safety legislation.

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Agroserve Ltd.

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