



NATIONAL REFRIGERANTS

ALKA KLEEN

Safety Data Sheet

1. Product and Company Identification

1.1.Product Name: Alka Kleen
1.2.Distributor: National Refrigerants Ltd.,
4 Watling Close
Sketchley Meadows Industrial Estate
Hinckley
Leistershire
LE10 3EZ

1.3.Emergency Telephone No.:

IN AN EMERGENCY DAIL 999 (UK Only)
For specialist advice in an emergency telephone
+441455 630790

2. Composition/Information on Ingredient

Chemical Description: Sodium Hydroxide Preparation
Hazardous Component: Sodium Hydroxide

3. Hazard Identification

Overview: Danger! Corrosive to all body tissues. Avoid contact with skin or eyes.
Harmful if inhaled or swallowed.

Potential Health Effects:

Inhalation: Inhalation of vapour or mist is corrosive to repertory tract.

Eye contact: Liquid or vapours are corrosive to eyes.

Skin contact: Liquid or vapours are corrosive to skin.

Ingestion: Toxic. May cause sever damage, perforation and scaring of gastrointestinal tract.

Chronic effects: Chemical pneumonitis.

4. First Aid Measures

Inhalation: Remove victim to fresh air and keep warm. If breathing fails give artificial respiration. Authorised personnel may give oxygen if breathing is laboured. Obtain immediate medical attention.

Eye Contact: Flush eye for at least 15 minutes holding the eye open. Obtain immediate medical attention.

Skin contact: Flush with water or soap and water for 15 minutes or until all traces have been removed. Seek medical attention if symptoms develop and persist.

Ingestion: DO NOT INDUCE VOMITING. Get immediate medical attention.
See also Section 11.

5. Fire Fighting Measures

Extinguishing Media: Dry Powder, Carbon dioxide (CO₂) Water fog or spray.

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Hazard: Exposed to heat and fire toxic fumes of Na₂O, SO_x generated.

Fire Fighting Protective Equipment: Fire-fighters wear protective clothing and self-contained breathing apparatus.

6. Accidental Release Measures (Spillage)

Personal Precautions: Use approved personal protective equipment. Evacuate the area.

Environmental Precautions: Keep non-neutralised material out of sewers, storm drains, surface water and soil. Notify National Rivers Authority and local Environmental Health Officer if major spillage occurs.

Recovery of Major Spillage: Contain spill with inert material. Absorb spilled material with sand or earth and remove to a safe place. Flush area with water.

Minor Spillage: Wash area down with copious amounts of water.

7. Handling and Storage

Handling: Avoid contact with skin, eyes and clothing. After handling this product wash hands before eating, drinking or smoking. If contact occurs remove contaminated clothing. If needed take first aid action shown above. Launder contaminated clothing before reuse.

Storage: Store in a dry place protected against moisture and water. Keep well separated from acids and acidic materials.

8. Exposure Controls & Personal Protection

Occupational Exposure Limits

Hazardous Ingredients	STEL mg/m ³
Sodium Hydroxide	2

Engineering Controls: Local exhaust recommended.

Personal Protection:

Respiratory: In cases where mist may be formed ventilate to maintain vapour concentrations below exposure limit. If not use a well maintained chemical cartridge respirator, or use self contained breathing apparatus.

Hand: Use nitrile gloves or PVC gauntlets.

Eye: Use chemical splash proof glasses or goggles

Skin: If skin contact or contamination of clothing is likely protective clothing must be worn.

9. Physical and Chemical Properties

Appearance: Purple liquid.

Odour: Bland.

pH: 13.5 – 14.0

Boiling Point: 100°C.

Melting Point: ND

Flash Point: Not applicable.

Flammability Upper: Not applicable.

Flammability Lower: Not applicable.

Vapour Dencity (Air = 1): >1

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Specific Gravity: 1.2

10. Stability and Reactivity

Stability: Stable.

Conditions to Avoid: High Temperatures.

Materials to Avoid: Strong acids, Acidic materials, Aluminium & zinc.

Recommended Materials for equipment: Mild Steel, 316, polythene.

Hazardous Decomposition products: From combustion smoke, carbon monoxide, carbon dioxide, oxides of sulphur, Na₂O.

11. Toxicological Information

Sodium Hydroxide

LDLo: 500mg/kg (oral-rat)
50g/24 hr SEV (eye-rabbit)
500mg/24 hr SEV (skin-rabbit)

Inhalation: Presents no significant health hazard by inhalation.

Carcinogenicity: Not considered to be a carcinogen.

Mutagenicity: Not considered to be mutagen.

Reproductive effects: None identified.

12. Ecological Information

Mobility: Soluble.

Persistence and Degradability:

Bio Accumulation:

Aquatic Toxicity: Not known.

Other: Spillages of Alka-Kleen will cause acute localised damage to flora and fauna. The extent of the damage will depend on the capacity of the receiving system to neutralise the spillage or dilute it to non-toxic levels. Small amounts present no specific environmental hazard.

13. Disposal Considerations

Disposal Method: Dispose as hazardous waste in accordance with legislation. Do not dispose as domestic waste.

Contaminated Packaging: Empty completely and rinse with water.

14. Transport Information

Packaging size: 1 & 5 US gallon plastic bottles.

Class (ADR): 8

UN Number: UN1824

Packing Group: II

Proper Shipping Name (ADR): UN1824 Sodium Hydroxide Solution, 8, PGII



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15. Regulatory Information

Supply Classification Hazard Pictogram: Corrosive.

Risk Phrases: 35 Causes sever burns

Safety Phrases: 2 Keep out of the reach of children

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

37/39 Wear suitable gloves and eye/face protection.

16. Other Information

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