

# MATERIAL SAFETY DATA SHEET-NEUTRALISING LIQUID

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### **1. Product name / description:**

**NEUTRALISING LIQUID.**

### **2. Composition / information on ingredients:**

Blend of sodium hydroxide solution and corrosion inhibitor.

Sodium hydroxide in solution >25% CAS no.; 1310-73-2, corrosion inhibitor.

### **3. Hazards identification:**

Corrosive and caustic. Causes severe injuries in contact with eyes, inhalation, or ingestion. May cause ulceration of skin.

### **4. FIRST AID MEASURES:**

Eyes: Flush with water for at least 10 minutes. Seek medical attention.

Skin: Drench the skin with plenty of water. Remove contaminated clothing and wash before reuse. If skin is damaged, or if irritation persists, seek medical attention.

Ingestion: **DO NOT INDUCE VOMITING.** Wash out mouth with water. If patient is conscious, give water to drink. If patient feels unwell, seek medical attention.

Inhalation: Remove patient to fresh air, rest and keep warm. If recovery is not rapid or complete, seek medical attention.

### **5. Fire fighting measures:**

Use any suitable fire fighting medium for other materials present. Material is not combustible. Special equipment for fire fighting: Wear protective clothing. Self contained breathing apparatus.

### **6. Accidental release measures:**

Safety precautions: Wear appropriate personal protection equipment.

Environmental precautions: Do not allow material to contaminate drains or watercourses. Inform appropriate authority of any release of significant quantities to water courses.

Clean up procedure: Where possible, transfer to suitable container for reuse or waste disposal. Dilute residue with plenty of water and cautiously neutralise with a weak acid solution, then flush to drain with plenty of water.

### **7. Handling & storage:**

Handling: Avoid direct contact with the product.

Storage: Store in dry, ventilated area, away from materials which react with alkalis.

Storage materials: Use only materials resistant to strong alkalis, plastics, mild steel.

### **8. Exposure controls / personal protection:**

Exposure limit: 2 mg/m<sup>3</sup> STEL

Respiratory protection: Avoid breathing vapour.

Hand protection: Wear rubber or PVC gloves.

Eye protection: Wear goggles.

Skin: Overalls, apron and boots.

### **9. Physical & chemical properties:**

- Appearance: Colourless liquid.
- Relative density: ca. 1.25
- Boiling point: >100°C.
- pH of 1% solution: >11.5
- Solubility in water: miscible in all proportions..

**10. Stability & reactivity:**

Stability: Stable, absorbs moisture and carbon dioxide.

Conditions to avoid:

Materials to avoid: Strong acids, aluminium, zinc, chlorinated hydrocarbons.

Known hazardous reactions: Evolves hydrogen when in contact with aluminium and zinc. Hydrogen is a highly flammable gas.

**11. Toxicological information:**

Skin contact: May result in severe burns which are slow to heal. Prolonged exposure may result in dermatitis.

Eye contact: May result in severe burns causing eye damage.

Ingestion: May result in perforation of the digestive tract, and severe burns to mouth and throat.

Inhalation: Inhalation of vapour may result in burns to the respiratory tract.

**12. Ecological information:**

Environmental effects: Concentrations sufficient to render effluent alkaline may cause damage to effluent organisms.

Mobility: Water soluble liquid with low volatility.

Degradability: degrades readily by reaction with natural carbon dioxide.

Aquatic toxicity: Concentrations greater than 10ppm, or pH above 10.5, may be fatal to fish.

**13. Disposal considerations:**

Substance: In significant quantities, via authorised waste disposal contractor. In small quantities, dispose of by flushing away with copious amounts of water or slowly neutralising with acid to neutral pH. Neutralisation generates heat.

**14. Transport information:**

- UN number: 1824 ADR Class/Item number: 8, 42<sup>o</sup> (b). CAS Number: 1310-73-2.
- Primary hazard: Corrosive. Packing group: II.
- Emergency action code: 2R.
- H.I. number: 80

**15. Regulatory information:**

**Label name: NEUTRALISING LIQUID.**

Symbols: Corrosive.

- 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 gloves and eye/face protection.  
S45 In case of accident or if you feel unwell, seek medical advice.  
S60 This material and its container must be disposed of as hazardous waste.
- E.E.C. number: 215-185-5.

**16. Other information:**

Usual application of product: Neutralising of acidic descaling products before disposal.

**Legal disclaimer:** The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or specification of the product. The user must satisfy himself that the product is entirely suitable for his purpose.