

Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: NEUTRALISING LIQUID

CAS number: 1310-73-2

EINECS number: 215-185-5

Index number: 011-002-00-6

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: pH Adjustment. Cleaning Agent. Detergents. Chemical manufacturing.

1.3. Details of the supplier of the safety data sheet

Company name: Kamco Limited

Unit 9, Curo Park Frogmore

St Albans

Herts

AL2 2DD

Tel: 01727 875020 (08:00 - 17:00 Mon-Fri)

Email: info@kamco.co.uk

1.4. Emergency telephone number

Emergency tel: 01727 875020 (Office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: C: R35

Classification under CLP: Skin Corr. 1A: H314; Met. Corr. 1: H290

Most important adverse effects: Causes severe burns.

2.2. Label elements

Label elements under CLP:

Hazard statements: H314: Causes severe skin burns and eye damage. H290: May be corrosive to metals.

Signal words: Danger

Hazard pictograms: GHS05: Corrosion



Precautionary statements: P260: Do not breathe dust / fume / gas / mist / vapours / spray.

P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+361+353: IF ON SKIN (or hair): Remove immediately all

contaminated clothing. Rinse skin with water/shower.

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor.

Label elements under CHIP:

Hazard symbols: Corrosive.



Risk phrases: R35: Causes severe burns.

Safety phrases: S1/2: Keep locked up and out of the reach of children.

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 (show the label where possible).

2.3. Other hazards

PBT: This substance is not identified as a PBT substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients: SODIUM HYDROXIDE

EINECS	CAS	CHIP Classification	CLP Classification	Percent
215-185-5	1310-73-2	C: R35	Skin Corr. 1A: H314	5 - 50%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact: Irritation or pain may occur at the site of contact. There may be redness or whiteness of the skin in the area of exposure. Blistering may occur. Severe

burns may occur.

Eye contact: There may be irritation and pain. Corneal burns may occur. Risk of serious damage to eyes. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be vomiting. Blood may be vomited.

Inhalation: There may be a feeling of tightness in the chest with shortness of breath. Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath. There may be loss of consciousness. Corrosive to the mucous membrane. Prolonged inhalation of mists may cause lung inflammation.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: A decontamination shower should be available on the premises. Eye bathing equipment should be available on the premises.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Water spray. Carbon dioxide. Water fog. Dry chemical powder.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Corrosive. In combustion emits toxic fumes. May produce flammable Hydrogen gas when in contact with metals, with obvious explosion hazards.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus.

Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear suitable protective clothing. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Remove all incompatible materials as outlined in section 10 of SDS.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers. Contain the spillage using bunding.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.

6.4. Reference to other sections

Reference to other sections: * Refer to section 8 of MSDS. Refer to section 13 of MSDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Wear suitable protective clothing. Avoid the formation or spread of mists in the air. Avoid direct contact with the substance. Avoid contact with the material and breathing its dust. Ensure that contaminated clothing is thoroughly laundered prior to re-use.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well-ventilated area. Keep container tightly closed. Avoid incompatible materials and conditions - see section 10 of MSDS. Protect from low temperatures and frost. Do not store near foodstuffs.

Suitable packaging: Do not use aluminium containers.
Plastic. Plastic-lined. Mild steel Steel drums.

7.3. Specific end use(s)

Specific end use(s): * No special requirement.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits:

State	Respirable dust			
	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	2 mg/m ³	-	-

Hazardous ingredients:

SODIUM HYDROXIDE

Workplace exposure limits:

State	Respirable dust			
	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
UK	-	2 mg/m ³	-	-

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Not normally required under normal conditions of use. Wear suitable respiratory protection when aerosols or mist are present. Particle filter class P2S (EN143). **Hand protection:** Gloves (alkali-resistant).

Eye protection: Safety goggles. Face-shield. Ensure eye bath is to hand.

Skin protection: Wear full chemical suit. Wear wellingtons. Ensure safety shower is to hand. **Environmental:** No special requirement.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Colourless

Odour: Barely perceptible odour

Evaporation rate: Negligible

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Miscible in all proportions

Also soluble in: Ethanol. Methanol.

Boiling point / range °C: 142.5 @ 50 %

Melting point / range °C: ~12 @ 50 %

Flash point °C: >93

Relative density: ~1.5 @ 50 %

pH: 14

9.2. Other information

Other information: Not applicable.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Low temperatures and frost.

10.5. Incompatible materials

Materials to avoid: * Acids. Organic materials. Ammonia & ammonia solutions. Chlorinated hydrocarbons May react with certain metals to liberate flammable Hydrogen gas. Aluminium. Zinc. Tin.

10.6. Hazardous decomposition products

Haz. decomp. products: * In combustion emits toxic fumes. Liberates flammable/explosive hydrogen gas when reacts with metals.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
ORL	HMN	Lethal Dose	5	g

Relevant effects for mixture:

Effect	Route	Basis
Corrosivity	OPT INH DRM	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Irritation or pain may occur at the site of contact. There may be redness or whiteness of the skin in the area of exposure. Blistering may occur. Severe burns may occur.

Eye contact: There may be irritation and pain. Corneal burns may occur. Risk of serious damage to eyes. May cause permanent damage.

Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be vomiting. Blood may be vomited.

Inhalation: There may be a feeling of tightness in the chest with shortness of breath. Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath. There may be loss of consciousness. Corrosive to the mucous membrane. Prolonged inhalation of mists may cause lung inflammation.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Other information: * There is no further information at this time.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: Not applicable.

12.2. Persistence and degradability

Persistence and degradability: Components will degrade in water and soil.

12.3. Bio-accumulative potential

Bio-accumulative potential: There is no evidence of bioaccumulation.

12.4. Mobility in soil

Mobility: Non-volatile. Soluble in water.

12.5. Results of PBT and vPvB assessment

PBT identification: This substance is not identified as a PBT substance.

12.6. Other adverse effects

Other adverse effects: Harmful to flora. Harmful to aquatic organisms. Large doses cause high pH which may affect effluent and sewage treatment processes. Discharge of large quantities may kill fish and other aquatic life due to increase/decrease in pH. Do not allow to enter watercourses or soils. Spillage in sewers or waterways must be avoided.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

Recovery operations: * No information available at this time.

Disposal of packaging: Contaminated containers must not be treated as household waste. Where practical, containers and packaging should be recycled by a licensed contractor.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1824

14.2. UN proper shipping name

Shipping name: SODIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es)

Transport class: 8

14.4. Packing group

Packing group: II

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions. Tunnel code: E

Transport category: 2

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Specific regulations: * No specific applicable legislation.

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

Phrases used in s.2 and 3: H290: May be corrosive to metals.

H314: Causes severe skin burns and eye damage.

R35: Causes severe burns.

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. This company shall not be held liable for any damage resulting from handling or from contact with the above product