

Kamco Limited

MATERIAL SAFETY DATA SHEET

NEUTRALISING LIQUID

Revision date: 22/9/2011

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

1.1. Product identifier

Product name: NEUTRALISING LIQUID

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

Use of substance / mixture: Neutralising of acidic descaling products before disposal.

1.3. Details of the supplier of the safety data sheet

Company name: Kamco Ltd
Unit 9, Curo Park
Frogmore
St Albans
Herts
AL2 2DD

Tel: 01727 875020

Fax: 01727 875335

Email: info@kamco.co.uk

1.4. Emergency telephone number

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: C;R35

Classification under CLP:

Most important adverse effects: Causes severe burns.

2.2. Label elements

Label elements under CHIP:

Hazard 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 protective clothing, gloves and eye/face protection.
 S45: In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
 S60: This material and its container must be disposed of as hazardous waste.

2.3. Other hazards

PBT:

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	-	5-10%

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. Get 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. Continue to rinse for at least 15 minutes and get medical attention.

Ingestion: Immediately rinse mouth and drink plenty of water (200-300 ml). Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

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

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

Skin contact: Prolonged contact may cause redness and irritation.

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 systems and cause coughing.

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: Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Section 5: Fire-fighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Exposure hazards:

5.3. Advice for fire-fighters

Advice for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Environmental precautions: Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Absorb with inert, damp, non-combustible material. Collect spillages in containers, cautiously neutralise with a weak acid solution, then flush to drain (and flush area) with copious amounts of water.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of MSDS

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Avoid spilling, skin and eye contact. Provide good ventilation.

7.2. Conditions for safe storage, including and incompatibilities

Storage conditions: Keep containers tightly closed. Store in dry, ventilated area away from materials which react with alkalis.

Suitable packaging: Corrosive storage. Use only materials resistant to strong alkalis, plastics, mild steel.

7.3. Specific end use(s)

Specific end uses(s): Neutralising of acidic descaling products before disposal.

Section 8: Exposure controls/personal protection

8.1. Control parameters

NAME	Std	TWA – 8hrs	STEL – 15 min	Notes
SODIUM HYDROXIDE	Work Exposure Limit		2	

8.2. Exposure controls

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

- Respiratory protection:** Avoid breathing vapour. If ventilation is insufficient, suitable respiratory protection must be provided.
- Hand protection:** Protective gloves.
- Eye protection:** Safety goggles/face shield are recommended.
- Skin protection:** Protective clothing (e.g. rubber apron/rubber footwear)

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- State:** Liquid
- Colour:** Colourless
- Solubility in water:** Miscible in all proportions.
- pH:** (conc. solution): 13.5
- Mol. weight:** 40.01
- Relative density:** 1.05 – 1.55
- Viscosity:** ~75 mPas 20
- Boiling point:** >100°C

9.2. Other information

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity:

10.2. Chemical stability

Chemical stability: Stable under normal temperature conditions and recommended use. Absorbs moisture and carbon dioxide.

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

Conditions to avoid: Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

Haz. decomp. products:

Section 11: Toxicological information

11.1. Information on toxicological effects

Symptoms / routes of exposure

- Skin contact:** Prolonged contact may cause redness and irritation.
- 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 systems and cause coughing.
- Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Toxicity: The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

LC50, 96 Hrs, FISH mg/l: 55.6
EC50, 48 Hrs, DAPHNIA mg/l 156

12.2. Persistence and degradability

Persistence and degradability: The product is expected to be biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential:

12.4. Mobility in soil

Mobility: The product is soluble in water.

12.5. Results of PBT and vPvB assessment

PBT identification:

12.6. Other adverse effects

Other adverse effects:

Section 13: Disposal considerations

13.1. Waste treatment methods

- Disposal operations:** Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority. In small quantities, dispose of by flushing away with copious amounts of water or slowly neutralising with acid to neutral pH. Neutralisation generates heat.
- Disposal of packaging:** Do not puncture or incinerate, even when empty.
- NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

UK Road Class:	8	UK Road Pack Gr:	II
Shipping Name:	NEUTRALISING LIQUID	ADR Class:	Class 8: Corrosive substances
UN No. ROAD:	1824	Tunnel Restriction Code:	(E)
ADR Class No:	8	ADR Label No:	8
ADR Pack Group:	II	CEFIC TEC ® No:	80GC5-II+III
Hazard No. (ADR):	80	RID Pack Group:	II
Hazchem Code:	2R	IMDG Class:	8
RID Class No:	8	EMS:	F-A, S-B
UN No. SEA:	1824	Air Class:	8
IMDG Pack GR:	II		
UN No. AIR:	1824		
Air Pack GR:	II		

Section 15: Regulatory information

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

Statutory instruments: Chemicals (Hazard Information and Packaging for Supply) Regulations.

Approved Code of Practice: Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes: CHIP for everyone HSG (108). Workplace Exposure Limits EH40.

Section 16: Other information

Other 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. Kamco Limited shall not be held liable for any damage resulting from handling or from contact with the above product.