

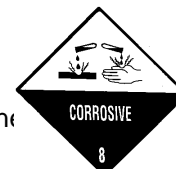


MATERIAL SAFETY DATA SHEET

Section 1: IDENTIFICATION

ATTACK

Recommended Use: Heavy-duty oven and grill cleaner
Product Code: 829



MASTER AUSTRALIA PTY LTD (A.B.N. 45 142 705 762)
Postal Address: 45 Marrickville Rd, Marrickville, NSW 2204
Telephone Number: (02) 9550 5800 Facsimile: (02) 9550 5876
Emergency Telephone Number: Poisons Information Centre (National) 13 11 26

Section 2: HAZARDS IDENTIFICATION

Classified as hazardous by the criteria of Safe Work Australia.

- R22: Harmful if swallowed.
R35: Causes severe burns.
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 whenever possible.)

Section 3: COMPOSITION INFORMATION

<u>Ingredient</u>	<u>CAS No</u>	<u>Proportion</u>
Non-hazardous ingredients	-----	To 100%
Potassium hydroxide	1310-58-3	30-60%

Section 4: FIRST AID MEASURES

Eye (Contact)	Hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre, or for at least 15 minutes.
Skin (Contact)	Remove contaminated clothing and flush skin and hair with running water for at least 15 minutes.
Inhalation(Breathing)	Apply artificial respiration if not breathing.
Ingestion (Swallowing)	Do NOT induce vomiting. For advice, contact a Poisons Information Centre (Phone 131126) or a doctor.
Advice to Doctor	Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Suitable extinguishing media	Use water spray, foam, carbon dioxide or dry chemical powder. Use media / equipment appropriate to surrounding fire conditions.
Hazards from combustion products	Carbon dioxide, carbon monoxide, nitrogen oxides and other toxic gases may be produced in the case of fire or during thermal decomposition. Corrosive alkali vapours may be present.
Precautions for fire fighters and special protective equipment	Fire fighters must wear full protective clothing including self contained breathing apparatus and chemical splash suit. Ensure that no spillage enters drains or water courses. Remove from the vicinity containers not involved in the fire.
Additional information	Hazchem Code – 2R May generate flammable hydrogen gas if in contact with zinc, tin, magnesium or aluminium.

Section 6: ACCIDENTAL RELEASE MEASURES

Emergency procedures	SAA/SNZ HB76: Dangerous Goods – Initial Emergency Response Guide – Guide 37.
Methods and materials for containment and clean up	Clear area of all unprotected personnel. Wear full protective equipment to prevent skin and eye contact. Ventilate area of leak or spill. Contain and recover liquid when possible. Collect in an appropriate container or absorb with an inert material (e.g. vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible products like saw dust.

Section 7: HANDLING AND STORAGE

Precautions for safe handling	Any non-intended or non-authorized use of this product may result in severe personal injuries including caustic burns, or damage to equipment and severe corrosion. Store product in original container. Wash hands and face thoroughly after handling and before work breaks, eating, drinking, smoking and using toilet facilities.
Conditions for safe storage, including any incompatibilities	Store in a cool, dry, well ventilated area away from incompatible materials. Keep container tightly sealed. Check regularly for spills and leaks. Protect against physical damage.

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

National Exposure Standards - Source: National Exposure Standards for Atmospheric Contaminants in the Occupational Environment [NOHSC:1003].

<u>Ingredient</u>	<u>CAS No</u>	<u>TWA</u>	<u>STEL</u>
Potassium hydroxide	1310-58-3	2mg/m ³	-----

Biological limit values	Not available.
Engineering controls	Ensure adequate ventilation to keep airborne concentrations below exposure standards.

Personal protective equipment

Eye/face protection – Safety glasses or chemical resistant goggles or face shield should be worn to prevent eye/face contact.

Skin protection – Use nitrile rubber gloves to prevent skin contact.

Respiratory protection – Respirator is not usually necessary but if product is being used in a confined area where mist is a problem, use a respirator suitable for particulates and alkaline gases.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Red viscous liquid	Boiling Point:	Approximately 100°C
Odour:	Characteristic	Freezing Point:	Approximately 0°C
pH:	13 - 14	Solubility:	Soluble in water.
Vapour Pressure:	Not applicable	Specific Gravity:	1.4
Vapour Density:	Not applicable	Flammable information:	Not applicable

Section 10: STABILITY AND REACTIVITY

Chemical stability	Stable under normal ambient storage conditions.
Conditions to avoid	Avoid high temperatures (store below 30°C). Protect against physical damage.
Incompatible materials	Incompatible with strong acids, aluminium, tin, zinc, chlorinated hydrocarbons and acetone.
Hazardous decomposition products	Oxides of potassium.
Hazardous reactions	Corrosive to aluminium, zinc and tin producing hydrogen gas. Reacts with ammonium salts evolving ammonia gas. Reacts violently with acids.

Section 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS**Acute**

Swallowed Considered an unlikely route of entry in commercial / industrial environments. Corrosive to mucous membranes and may cause damage to esophagus and stomach. Abdominal pain, nausea, vomiting, general gastrointestinal upset can be expected.

Eye Highly corrosive to eyes. An eye irritant. Contamination of eyes can result in conjunctivitis, corneal burns and ulceration which can result in permanent injury and possible loss of eye sight. Can also cause tearing, redness and pain.

Skin Contact dermatitis may result from working with this material. Highly corrosive to skin. Produces burns, deep ulceration and gelatinous necrotic areas at the site of contact. Skin contact can result in little pain, thus care should be taken to avoid contamination of gloves and boots.

Inhaled Inhalation of mist or aerosols will result in respiratory irritation and possible harmful corrosive effects including lesions of nasal and pulmonary oedema.

Chronic

Swallowed No effects known.

Eye No effects known.

Skin Development of defatting dermatitis on prolonged contact with potassium hydroxide has been reported.

Inhalation Continued irritation may lead to increased susceptibility to respiratory illness.

TOXICITY DATA

Potassium hydroxide

LD₅₀ 273mg/kg (oral, rat)

RTECS TT2100000

Section 12: ECOLOGICAL INFORMATION

Not expected to be ecotoxic.
Biodegradability data not yet available.

Section 13: DISPOSAL CONSIDERATIONS

Refer to state/Territory Land Waste Management Authority. Dispose of material through a licensed waste contractor. Normally suitable for incineration by approved agent.

Section 14: TRANSPORT INFORMATION

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code).

UN Number	1719
UN Proper Shipping Name	CAUSTIC ALKALI LIQUID, N.O.S.
Class and subsidiary risk	8 – Corrosive
Packing Group	II
Special precautions for user	Not applicable
Hazchem Code	2R

Section 15: REGULATORY INFORMATION

Poisons Schedule (SUSDP): Schedule 6 – POISON.

WARNING: Corrosive. May produce severe burns. Attack skin and eyes.

SAFETY: Wear eye protection and protective gloves when mixing or using.

All ingredients are listed on the Australian Inventory of Chemical Substances (AICS).

Section 16: OTHER INFORMATION

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