

Material Safety Data Sheet

PRODUCT NAME CLAX 1SL1

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

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Synonym(s) HH10194 CLAX 1SL1 BULK, HH10195 CLAX 1SL1 200L
Use(s) ALKALINE BUILDER

2. HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

RISK PHRASES

R35 Causes severe burns.
R41 Risk of serious damage to eyes.

SAFETY PHRASES

S1/2 Keep locked up and out of reach of children.
S26 In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre.
S37/39 Wear suitable gloves and eye/face protection.
S45 In case of accident or if you feel unwell, contact a doctor or Poisons Information Centre immediately (show the label where possible).

CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN No.	1824	Hazchem Code	2R	Pkg Group	II
DG Class	8	Subsidiary Risk(s)	None Allocated	EPG	8A1

3. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredient	Formula	Conc.	CAS No.
SODIUM HYDROXIDE	Na-OH	<10%	1310-73-2
NON HAZARDOUS INGREDIENTS	Not Available	>60%	Not Available
SODIUM SILICATE	Na4SiO4	10-30%	1344-09-8

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4. FIRST AID MEASURES

Eye	Hold eyelids apart and flush continuously with water. Continue until advised to stop by the Poisons Information Centre, a doctor, or for at least 15 minutes. Keep patient calm.
Inhalation	Leave area of exposure immediately. If assisting a victim avoid becoming a casualty, wear an Air-line respirator where an inhalation risk exists. Remove victim from exposure area & keep warm. If victim is not breathing apply artificial respiration & seek urgent medical attention.
Skin	Remove contaminated clothing and gently flush affected areas with water. Continue to flush with water until skin no longer feels soapy. Seek medical attention. Launder clothing before reuse.
Ingestion	For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor. If swallowed, do not induce vomiting.
Advice to Doctor First Aid Facilities	<p>CORROSIVE POISONING TREATMENT: Immediate treatment preferably in a hospital is mandatory. In treating corrosive poisoning, DO NOT INDUCE VOMITING; DO NOT ATTEMPT GASTRIC LAVAGE; and DO NOT ATTEMPT TO NEUTRALISE THE CORROSIVE SUBSTANCE. Vomiting will increase the severity of damage to the oesophagus as the corrosive substance will again come in contact with it. Attempting gastric lavage may result in perforating either the oesophagus or stomach.</p> <p>Immediately dilute the corrosive substance by having the patient drink milk or water. If the trachea has been damaged tracheostomy may be required. For oesophageal burns begin broad-spectrum antibiotics and corticosteroid therapy. Intravenous fluids will be required if oesophageal or gastric damage prevents ingestion of liquids. Long-range therapy will be directed toward preventing or treating oesophageal scars and strictures.</p> <p>Eye wash facilities and safety shower should be available. Eye wash facilities and safety shower should be available.</p>

5. FIRE FIGHTING MEASURES

Flammability	Non flammable. May evolve toxic gases when heated to decomposition. Contact with some metals (eg: aluminium), may liberate potentially flammable - explosive hydrogen gas.
Fire and Explosion	Non flammable. May evolve flammable hydrogen gas in contact with some metals. If product is present in a fire, toxic gases may be evolved. Evacuate area & contact emergency services. Remain upwind & notify those downwind of hazard. Wear full protective equipment including Self Contained Breathing Apparatus (SCBA) when combating fire. Use waterfog to cool intact containers and nearby storage areas.
Extinguishing	Non flammable. Prevent contamination of drains or waterways, absorb runoff with sand or similar.
Hazchem Code	2R

6. ACCIDENTAL RELEASE MEASURES

Spillage	If spilt, contact emergency services if appropriate. Wear full-length PVC or rubber gloves, an Air-line respirator (where an inhalation risk exists), coveralls, PVC apron and rubber boots. Ventilate and clear area of all unprotected personnel. Absorb spill with sand, vermiculite or similar. Collect and place in sealable containers for treatment and disposal.
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7. STORAGE AND HANDLING

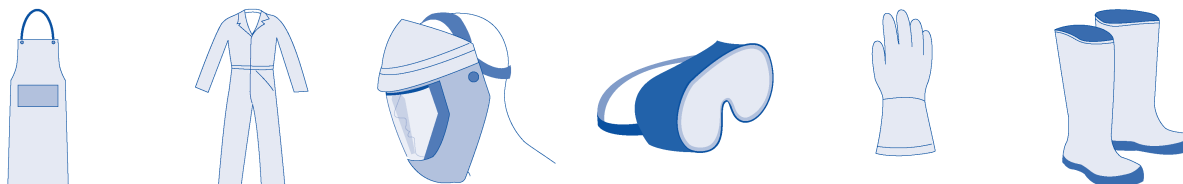
Storage	Store in cool, dry, well ventilated area, removed from oxidising agents, acids, active metals, direct sunlight, heat sources and foodstuffs. Ensure containers are adequately labelled, protected from physical damage and sealed when not in use. Large storage areas should be bunded and have appropriate ventilation systems.
Handling	Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas (eg. if container is damaged).

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation	Do not inhale vapours. Use in well ventilated areas. In poorly ventilated areas, mechanical extraction ventilation is recommended. Maintain vapour levels below the recommended exposure standard.
Exposure Standards	SODIUM HYDROXIDE (1310-73-2) ES-TWA: 2 mg/m ³ (Peak limitation) WES-TWA: 2 mg/m ³

PPE Wear a faceshield, splash-proof goggles, coveralls, rubber or PVC gloves, a PVC apron and rubber boots. At high vapour levels, wear an Air-line respirator.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	VISCOUS COLOURLESS HAZY LIQUID	Solubility (water):	SOLUBLE
Odour:	CHARACTERISTIC ODOUR	Specific Gravity:	1.430 - 1.450
pH:	14.0 (Approximately)	% Volatiles:	NOT AVAILABLE
Vapour Pressure:	NOT AVAILABLE	Flammability:	NON FLAMMABLE
Vapour Density:	NOT AVAILABLE	Flash Point:	NOT RELEVANT
Boiling Point:	100 C (Approximately)	Upper Explosion Limit:	NOT RELEVANT
Melting Point:	NOT AVAILABLE	Lower Explosion Limit:	NOT RELEVANT
Evaporation Rate:	NOT AVAILABLE	Autoignition Temperature:	NOT AVAILABLE
Exposure Standard:	2 mg/m ³ Sodium hydroxide		

10. STABILITY AND REACTIVITY

Reactivity	Incompatible with oxidising agents (eg. peroxides), acids (eg. sulphuric acid), active metals (eg. aluminium, potassium, magnesium), and heat and ignition sources.
Decomposition Products	May evolve toxic gases when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Health Hazard Summary	Use safe work practices to avoid eye or skin contact and spray mist generation or inhalation. This product has the potential to cause severe skin and eye burns with possible permanent tissue damage. If diluted, the risk of adverse health effects is greatly reduced.
Eye	Contact may result in pain, lacrimation, redness, conjunctivitis, corneal burns and ulceration with possible permanent damage.
Inhalation	Over exposure may result in irritation, coughing and bronchitis. At high level exposure may result in ulceration, lung tissue damage, chemical pneumonitis and pulmonary oedema. Symptoms may be delayed following exposure. Low volatility reduces inhalation hazard unless sprayed/heated.
Skin	Contact may result in rash, dermatitis, blistering and severe burns. Effects (eg. burning sensation) may be delayed.
Ingestion	Ingestion may result in burns to the mouth and throat, nausea, vomiting and abdominal pain. Large doses may result in ulceration, unconsciousness, convulsions and death.
Toxicity Data	SODIUM SILICATE (1344-09-8) LD50 (Ingestion): 1100 mg/kg (mouse)

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12. ECOLOGICAL INFORMATION

Environment WATER: If released to waterways, alkaline products may change the pH of the waterway. Fish will die if the pH reaches 10-11 (goldfish 10.9, bluegill 10.5). SOIL: May leach to groundwater with toxic effects on aquatic life as above. ATMOSPHERE: Not expected to reside in the atmosphere. Drops or particles released to atmosphere should be removed by gravity and/or be rained out.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Neutralise with dilute acid (eg. 3 mol/L hydrochloric acid) or similar. For small amounts absorb with sand or similar and dispose of to an approved landfill site. Contact the manufacturer for additional information.

Legislation Dispose of in accordance with relevant local legislation.

14. TRANSPORT INFORMATION

Shipping Name SODIUM HYDROXIDE SOLUTION

UN No.	1824	Hazchem Code	2R	Pkg Group	II
DG Class	8	Subsidiary Risk(s)	None Allocated	EPG	8A1

15. REGULATORY INFORMATION

Poison Schedule Classified as a Schedule 6 (S6) Poison using the criteria in the Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

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

16. OTHER INFORMATION

Additional Information RESPIRATORS: In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

EXPOSURE STANDARDS - TIME WEIGHTED AVERAGE (TWA) or WES (WORKPLACE EXPOSURE STANDARD) (NZ): Exposure standards are established on the premise of an 8 hour work period of normal intensity, under normal climatic conditions and where a 16 hour break between shifts exists to enable the body to eliminate absorbed contaminants. In the following circumstances, exposure standards must be reduced: strenuous work conditions; hot, humid climates; high altitude conditions; extended shifts (which increase the exposure period and shorten the period of recuperation).

ABBREVIATIONS:

mg/m³ - Milligrams per cubic metre

ppm - Parts Per Million

TWA/ES - Time Weighted Average or Exposure Standard.

CNS - Central Nervous System

NOS - Not Otherwise Specified

pH - relates to hydrogen ion concentration - this value will relate to a scale of 0 - 14, where 0 is highly acidic and 14 is highly alkaline.

CAS# - Chemical Abstract Service number - used to uniquely identify chemical compounds.

M - moles per litre, a unit of concentration.

IARC - International Agency for Research on Cancer.

PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this Chem Alert report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a Chem Alert report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

Report Status

This document has been compiled by RMT on behalf of the manufacturer of the product and serves as the manufacturer's Material Safety Data Sheet ('MSDS').

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It is based on information concerning the product which has been provided to RMT by the manufacturer or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer.

While RMT has taken all due care to include accurate and up-to-date information in this MSDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this MSDS.

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End of Report