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Date prepared: April 2002  
MATERIAL SAFETY DATA SHEET  
(Sheet No. 013B )

Hazardous according to criteria of Worksafe Australia.

R: 35 Causes severe burns.  
S: 36/37/39 Wear suitable protective clothing, gloves and  
eye/face protection.

## IDENTIFICATION

### Product Name: HT 84

Chemical Name: Sodium hydroxide/surfactant mixture.

Manufacturer's Code:

UN Number: 1823 Sodium hydroxide solid.  
DG Class: 8 Corrosive  
Packaging Group: II  
Subsidiary Risk(s): None  
Hazchem Code: 2 X  
EPG No. : 8A1  
Poisons Schedule: S6 Sodium hydroxide > 5 %

Uses: Heavy duty grease remover. Also used to remove  
rust, heat treat scale, smut and oil, to strip paint,  
enamels and phosphate coatings.

#### PHYSICAL DESCRIPTION & PROPERTIES

Appearance: White granular powder.  
Soluble in water with evolution of heat.  
pH about 14.  
Boiling Point: No data.  
Melting Point: No data.  
Vapour Pressure: None.  
Volatiles: None.  
Evaporation Rate: Not applicable.  
Odour: Faint smell of detergent.  
Vapour Density: Not applicable.  
Weight per ml.: Not applicable.  
Flash Point: None.  
Flammability Limits: None.  
Auto-ignition Temperature: No data.

Other Properties: Deliquescent. Absorbs moisture and carbon  
dioxide from the air. Dissolves in water with evolution of  
heat, and may even boil. Reacts violently with acids.  
Reacts with ammonia solution and ammonium salts to  
generate ammonia, a poisonous gas. Hydrolyses fats to make  
soaps. Hydrolyses esters. Aqueous solutions will dissolve  
tin, zinc, aluminium, generating hydrogen, a flammable  
gas. Precipitates most metals as their hydroxides from  
solutions of their salts. Corrosive to animal and  
vegetable materials. Soluble in ethanol. Can attack glass.

Ingredients

Sodium hydroxide	[1310-73-2]	> 60 %
Other ingredients		10 - 30 %
Surfactant		< 10 %

## **HEALTH HAZARD INFORMATION**

### Health Effects:

No data available for the mixture. Information presented relates to individual ingredients.

Acute:

Swallowed:	Can be fatal. Corrosive. Causes burns to mouth and throat, nausea, vomiting, abdominal pains and diarrhoea (occasionally bloody). Can also cause swelling of the larynx and suffocation, perforation of stomach and intestines with constrictive scarring, heart failure and coma.
Skin:	Corrosive, causes deep burns.
Eyes:	Corrosive, causes severe irritation and corneal burns. May cause blindness.
Inhaled:	Severe irritation of the nose and throat. Can cause inflammation of the lungs. Risk of permanent damage.

Chronic: Long term, low level exposure can lead to irritation of skin, lungs, nose, throat and mouth. The sites of constrictive scarring of the stomach and intestines (caused when swallowed) have been linked with subsequent stomach cancer.

LD 50 :	Sodium hydroxide	No data found.
	Other ingredient #1	No data found.
	Surfactant	500 mg/kg oral, rat.
LDLo :	Sodium hydroxide	500 mg/kg oral, rabbit

First Aid:

If poisoning occurs, contact a doctor or Poisons Information Centre.  
Phone: 131126

Swallowed: If swallowed, do NOT induce vomiting. Give a glass of water.

Skin: If skin contact occurs, remove contaminated clothing and wash skin thoroughly. Wash clothes before re-use.

Eyes: If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

Inhaled: Remove from exposure, rest and keep warm. Unless exposure has been slight, obtain medical attention.

### First Aid Facilities

Essential:	Eye wash. Hand wash basin.
Recommended:	Emergency shower, if handling industrial quantities.

### Advice to Doctor

Product is about 70 % sodium hydroxide. Corrosive to skin and eyes. If swallowed, may cause holes in stomach and intestines. Gastric lavage may be contra-indicated. Contact Poisons Information Centre.

## PRECAUTIONS FOR USE

Exposure Limits: [NOHSC]  
TLV-TWA: Sodium hydroxide 2 mg/m3 [Peak]

TLV-STEL: None assigned.

[Peak] indicates a ceiling concentration which should not be exceeded, even momentarily.

[NOHSC] - National Occupational Health & Safety Commission  
(Worksafe Australia)

### Engineering Controls:

Do not use wood, aluminium, tin, zinc or galvanised iron as materials of construction.  
Ensure adequate ventilation (same as outdoors) when using.  
If handling industrial quantities, consider local mechanical exhaust/extraction to keep airborne contamination below TLV.

### Personal Protection:

Prevent contact with the skin and eyes. Do not breathe the dust.  
Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:-

- Self contained breathing apparatus
- Face shield, goggles or safety glasses
- Gloves, rubber or plastic
- Plastic apron, sleeves and boots
- Impervious overalls.

### Flammability:

Not flammable.

## SAFE HANDLING INFORMATION

### Storage & Transport:

Storage Temperature:	Room temperature.
UN Class:	8 Corrosive.
Packaging Group:	II
UN Number:	1823 Sodium hydroxide solid.
EPG Number:	8A1
Correct Shipping Name:	Sodium hydroxide solid.

Observe the requirements of The Australian Code for the Transport of Dangerous Goods by Road and Rail.

Observe the requirements of State Dangerous Goods (Storage & Handling) Regulations.

Observe the requirements of the Standard for the Uniform Scheduling of Drugs and Poisons.

Storage Advice: Store in a cool, dry, well ventilated place, out of reach of children. Large quantities should be stored in a dangerous goods store. Store in original container. Keep container tightly closed. Keep container dry. Keep away from acids, ammonium compounds, aluminium, tin, zinc and galvanised iron, wood and paper products. Protect from physical damage. Clean up all spills promptly; avoid secondary accidents.

### Spills & Disposals:

Disposal of small spillages only. For large spillages liquids should be contained using sand or earth, and both liquids and solids then transferred to salvage containers. Residues should be treated as for small spillages. CAUTION: Before dealing with spillage take

necessary protective measures, inform others to keep at a safe distance and, for flammable materials, shut off all possible sources of ignition.

CARE! Spillages will become wet, then very slippery.  
If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise transfer to container and arrange removal by disposals company. Wash site of spillage thoroughly with water.

Fire/Explosion Hazard:

Not a fire hazard.  
Not an explosion hazard.  
Will react vigorously or violently with acids.  
Contact with ammonium compounds may generate ammonia, a toxic gas.  
Contact with aluminium, tin, zinc or galvanised iron may generate hydrogen, a flammable gas.

Decomposition Products:

Carbon dioxide, water vapour, sodium carbonate, oxides of sulphur.

In case of small fire/explosion use:	Water.
In case of major emergency:	
HAZCHEM CODE:	2 X
Extinguishant:	Water fog or fine water spray.
Danger of violent reaction or explosion?	No.
Protective Clothing:	Full protective clothing including breathing apparatus and protective gloves.
Appropriate Measures:	Contain.
Evacuate?	No.

Other Information:

Prevent spillages from entering natural waters or the environment.  
The surfactant used in this product is biodegradable according to Australian Standard AS1792-1976.

Contact Point: Mr. Kent Hateley, Hunters Products (Tas) Pty Ltd.,  
60 Gleadow Street, INVERMAY TAS 7248

Telephone: (03) 6331 4755

24 Hour Emergency Tel. No.: Not available

Emergency Services: Dial 000