

Infosafe No™ VAR7K Issue Date : May 2012 ISSUED by HUNTERST

Product Name **CAUSTIC SODA**

Classified as hazardous according to criteria of NOHSC

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name CAUSTIC SODA
Company Name Hunters Products (TAS) Pty. Ltd. (ABN 004 601 263)
Address 60 Gleadow Street INVERMAY
TAS 7248 Australia
Emergency Tel. 0407 610 542
Telephone/Fax Number Tel: 03 6431 9627
Fax: 03 6432 2083
Recommended Use As a caustic alkali.
Read the label before opening or using.

2. HAZARDS IDENTIFICATION

Hazard Classification Classified as hazardous according to criteria of NOHSC
HAZARDOUS SUBSTANCE.
DANGEROUS GOODS.
Hazard classification according to the criteria of NOHSC.
Dangerous goods classification according to the Australia Dangerous Goods Code.

Risk Phrase(s) Classified as hazardous according to criteria of NOHSC
R35 Causes severe burns.

Safety Phrase(s) 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 seek medical advice.
S37/39 Wear suitable gloves and eye/face protection.
S45 In case of accident or if you feel unwell seek medical advice immediately

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Characterization Solid

Ingredients	Name	CAS	Proportion
	Sodium hydroxide	1310-73-2	100 %

4. FIRST AID MEASURES

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

Ingestion If swallowed, do NOT induce vomiting. Give a glass of water to be taken slowly.

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

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

First Aid Facilities Eye wash. Hand wash basin. Emergency shower.

Advice to Doctor Sodium hydroxide is highly corrosive. Vomiting has not been induced because of risk of aspiration into the lungs. If swallowed, may cause holes in stomach and intestines. Evacuation of stomach should not be attempted. Contact Poisons Information Centre.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media Water fog or fine water spray.

Specific Methods In case of small fire/explosion use water. In case of major emergency use PPE: breathing apparatus and protective gloves.

Specific Hazards Not flammable. Contact with aluminium, tin, zinc or galvanised iron may generate hydrogen, a flammable gas. Will react vigorously or violently with acids, generating much heat, and giving off carbon dioxide, a simple asphyxiant. Contact with ammonium compounds will generate ammonia, a poisonous gas.

Hazchem Code 2X

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6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal	Contain all spills. Collect and seal in properly labeled containers for disposal. Large spills should be contained with absorbent and removed to drums for disposal. Remove in accordance with local waste management authority.
Personal Protection	Wear protective clothing to prevent eye and skin contamination. Ensure an eye bath and safety shower is available. Operators are recommended to wear full protective clothing, glasses, gloves, apron etc. including footwear.
Environmental Precautions	Prevent spills from entering drains and waterways. Contact local emergency services if contamination of sewers or waterways occurs.

7. HANDLING AND STORAGE

Precautions for Safe Handling	Handle according to good manufacturing and industrial hygiene practices. Do not drink, eat or smoke while handling. Respect good personal hygiene.
Conditions for Safe Storage	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, aluminium, tin, zinc and galvanised iron. Protect from physical damage. Clean up all spills promptly; avoid secondary accidents.
Unsuitable Materials	Store away from acids. Hydrogen gas is generated when undiluted material contacts aluminium, zinc or tin.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Sodium hydroxide			2		Peak limitation
Engineering Controls	Do not use aluminium, tin, zinc or galvanised iron as materials of construction. Use in a well ventilated area. If ventilation is insufficient use a corrosive - resistant ventilation system separate from other exhaust systems. Engineering control methods to reduce hazards are preferred.					
Personal Protective Equipment	Avoid contact with skin and eyes. Avoid breathing dusts or aerosols. Personal protection to be selected from those recommended below, as appropriate to mode of use, quantity handled and degree of hazard:- Normal Use: Eye/face protection Gloves, rubber or plastic. Industrial Quantities: Positive pressure air hood Face shield or safety glasses Gloves, rubber or plastic Plastic apron, sleeves and boots Impervious overalls. Always maintain a high level of personal hygiene when using cleaning chemicals. That is wash hands before eating, drinking, smoking or using the toilet.					

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	Solid
Appearance	White pellets, flakes or prills.
Odour	Odourless.
Melting Point	324 °C
Solubility in Water	Soluble in water with generation of heat.
Specific Gravity	2.1
pH Value	pH 1% solution: 12.5-13.5
Vapour Pressure	None
Flash Point	None.

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Flammability Not flammable. Contact with aluminium, tin, zinc or galvanised iron may generate hydrogen, a flammable gas.

Other Information Highly alkaline, will react violently with acids. Hygroscopic, will absorb moisture from the air. Will absorb carbon dioxide from the air, forming a coating of sodium carbonate. Will get hot when dissolved in water and may boil. Always add this material to water, never add water to this material. May boil explosively if added to hot water. Contact with active metals (such as aluminium, tin, zinc) may generate hydrogen, a flammable gas. Contact with ammonium compounds may generate ammonia, a toxic gas. May form shock-sensitive products with organic nitro compounds. May react vigorously, violently, catch fire or cause explosions with a wide variety of chemicals. Will attack wood and paper products, and glass on prolonged contact. May react with sugars to generate carbon monoxide, a toxic, odourless gas.

10. STABILITY AND REACTIVITY

Chemical Stability Caution-Heat will be evolved upon contact with acids.

Conditions to Avoid Incompatible materials, exposure to moisture or air.

Incompatible Materials Oxidising agents, acids, acidic materials, ammonium compounds, nitro compounds, organic halides, active metals, wood, paper, glass.

Hazardous Decomposition Products Sodium oxide fume.

Hazardous Reactions Will react violently with acids. May boil explosively if added to hot water. May form shock-sensitive products with organic nitro compounds. May react violently with organic halides. Contact with sugars may generate carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Inhalation Inhalation of dusts or concentrated mists may cause damage to the upper respiratory tract and lungs. Symptoms may range from a mild irritation of the mucous membranes, cough, a burning sensation, laboured breathing, sneezing, sore throat, a runny nose, to severe pneumonitis (irritation and inflammation of lung tissues). Inhalation may also cause pulmonary oedema (fluid build-up in the lungs), with the potential to become a medical emergency. Onset of symptoms may be delayed for several hours.

Ingestion May be fatal. Causes very serious damage to the mucous membranes and any other tissues it comes into contact with. May cause swelling of the larynx and subsequent suffocation. May cause burns in the mouth and throat, nausea, vomiting, abdominal pains and diarrhoea (occasionally bloody), fall in blood pressure, heart failure, coma and death. May cause perforation of the stomach and intestines, and the sites of subsequent scarring have been associated with the later development of stomach cancer. Internal damage may not be apparent until days after exposure, but may still prove fatal.

Skin Causes severe, deep burns. Exposure to dusts or mists may cause small burns, redness and a rash.

Eye Corrosive to eyes. Contact with the eyes rapidly causes severe damage to the tissues. May cause redness, pain, blurred vision. May cause severe, deep burns and permanent impairment to, or total loss of, sight.

Chronic Effects Prolonged or repeated contact with skin may result in dermatitis. Prolonged or repeated contact with dusts may cause respiratory disorders.

Acute Toxicity - Oral LD50 Oral Mouse: 40 mg/kg
Oral Rat: 140-340 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity Toxic to aquatic organisms.

Mobility Readily transported by water.

Environ. Protection Avoid contaminating waterways, drains, sewers, or ground.

13. DISPOSAL CONSIDERATIONS

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Waste Disposal	Remove for disposal in accordance with local waste management regulations.
Container Disposal	Do not use aluminium, tin, zinc or galvanised iron containers.
Special precautions for landfill or incineration	Unsuitable for incineration.

14. TRANSPORT INFORMATION

Transport Information	Classified as a Class 8 Dangerous Good. Dangerous Goods of Class 8 Corrosives are incompatible in a placard load with any of the following: - Class 1, Class 4.3, Class 5, Class 6, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids and Class 7. Store away from acids.
U.N. Number	1823
Proper Shipping Name	SODIUM HYDROXIDE, SOLID
DG Class	8
Hazchem Code	2X
Packaging Method	3.8.8
Packing Group	II
EPG Number	8A1
IERG Number	37

15. REGULATORY INFORMATION

Poisons Schedule	S6
Hazard Category	Corrosive
AICS (Australia)	All components listed.

16. OTHER INFORMATION

Signature of Preparer/Data Service	Technical Manager (03) 6431 9627
Technical Contact Numbers	Emergency Advice All Hours: Technical Manager: (03) 6431 9627 Mon-Fri 8am - 6pm Poisons Information Centre: 13 11 26 - 24hrs Transport/Fire Emergency: 000 (Emergency services)

Other Information This MSDS summarises at the date of issue our best knowledge of the health and safety hazard information of the product, and in particular how to safely handle and use the product in the Workplace. Please refer to the technical datasheet (Instructions for use), and the label on the drum. The company cannot anticipate or control the individual working conditions encountered and so each user should read this MSDS carefully, and if in doubt ring the Contact Point Number given below.
...End Of MSDS...

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