

**LC-50**

Infosafe No.: 7EFFN  
ISSUED Date : 04/01/2017  
ISSUED by: JASOL AUSTRALIA

**CLASSIFIED AS HAZARDOUS**

## 1. IDENTIFICATION

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**GHS Product Identifier**

LC-50

**Product Code**

2133000

**Company Name**

JASOL AUSTRALIA

**Address**

Level 3, 187 Todd Road PORT MELBOURNE  
VIC 3207

**Telephone/Fax Number**

Tel: 1800 334 679

Fax: 03 9580 9902

**Emergency phone number**

1800 629 953

**Recommended use of the chemical and restrictions on use**

Liquid caustic. Heavy Duty Liquid Alkaline C.I.P. Cleaner.

## 2. HAZARD IDENTIFICATION

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**GHS classification of the substance/mixture**

Corrosive to Metals: Category 1

Eye Damage/Irritation: Category 1

Skin Corrosion/Irritation: Category 1A

**Signal Word (s)**

DANGER

**Hazard Statement (s)**

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

**Pictogram (s)**

Corrosion



**Precautionary statement – Prevention**

P234 Keep only in original container.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash contaminated skin thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Precautionary statement – Response

P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/physician.

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

#### Precautionary statement – Storage

P405 Store locked up.

P406 Store in corrosive resistant/ container with a resistant inner liner.

#### Precautionary statement – Disposal

P501 Dispose of contents/container to approved Waste Service Provider, in accordance to local and national regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Ingredients

Name	CAS	Proportion
Sodium hydroxide (for pH adjustment)	1310-73-2	46-50 %
Water	7732-18-5	50-54 %

### 4. FIRST-AID MEASURES

#### First Aid Measures

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

#### Inhalation

Remove victim from area of exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. For all but the most minor symptoms arrange for patient to be seen by a doctor as soon as possible, either on site or at the nearest hospital.

#### Ingestion

Immediately rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek immediate medical assistance.

#### Skin

If spilt on large areas of skin or hair, immediately drench with running water and remove clothing. Continue to wash skin and hair with plenty of water (and soap if material is insoluble) until advised to stop by the Poisons Information Centre or a doctor.

#### Eye contact

If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by a Poisons Information Centre or a doctor, or for at least 15 minutes.

#### Indication of immediate medical attention and special treatment needed if necessary

Treat symptomatically. Can cause corneal burns.

### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

#### Specific Hazards Arising From The Chemical

Non-combustible material.

## Hazchem Code

2R

### Precautions in connection with Fire

Not combustible, however following evaporation of aqueous component residual material can decompose if involved in a fire, emitting toxic fumes. Contact with metals may liberate hydrogen gas which is extremely flammable. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

## 6. ACCIDENTAL RELEASE MEASURES

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### Emergency Procedures

Clear area of all unprotected personnel. If contamination of sewers or waterways has occurred advise local emergency services. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Caution - heat may be evolved on contact with water.

## 7. HANDLING AND STORAGE

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### Handling and storage

This material is a Scheduled Poison S6 and must be stored, maintained and used in accordance with the relevant regulations.

### Precautions for Safe Handling

Avoid skin and eye contact and breathing in vapour, mists and aerosols.

### Conditions for safe storage, including any incompatibilities

Store in cool place and out of direct sunlight. Store away from incompatible materials described in Section 10 - Stability and reactivity. Store away from foodstuffs. Do not store in aluminium or galvanised containers nor use die-cast zinc or aluminium bungs; plastic bungs should be used. At temperatures greater than 40°C, tanks must be stress relieved. Keep containers closed when not in use - check regularly for leaks.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Occupational exposure limit values

Control Parameters: No value assigned for this specific material by Safe Work Australia. However, Workplace Exposure Standard(s) for constituent(s):

Sodium hydroxide: Peak Limitation = 2 mg/m<sup>3</sup>

As published by Safe Work Australia Workplace Exposure Standards for Airborne Contaminants.

Peak Limitation - a maximum or peak airborne concentration of a particular substance determined over the shortest analytically practicable period of time which does not exceed 15 minutes.

These Workplace Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These workplace exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

### Appropriate Engineering Controls

Ensure ventilation is adequate to maintain air concentrations below Workplace Exposure Standards. Keep containers closed when not in use.

If in the handling and application of this material, safe exposure levels could be exceeded, the use of engineering controls such as local exhaust ventilation must be considered and the results documented. If achieving safe exposure levels does not require engineering controls, then a detailed and documented risk assessment using the relevant Personal Protective Equipment (PPE) (refer to PPE section below) as a basis must be carried out to determine the minimum PPE requirements.

### Personal Protective Equipment

The selection of PPE is dependent on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

OVERALLS, CHEMICAL GOGGLES, FACE SHIELD, GLOVES (Long), APRON, RUBBER BOOTS.

Wear overalls, chemical goggles, face shield, elbow-length impervious gloves, splash apron or equivalent chemical impervious outer garment, and rubber boots. Always wash hands before smoking, eating, drinking or using the toilet.

Wash contaminated clothing and other protective equipment before storage or re-use.

If determined by a risk assessment an inhalation risk exists, wear a suitable mist respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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### Form

Liquid

### Colour

Colourless to Slightly Coloured

### Freezing Point

Ca. 12°C (calculated)

### Boiling Point

Ca. 145°C (literature)

### Solubility in Water

Miscible with water.

### Specific Gravity

1.48-1.52 @20°C

### pH

14

### Vapour Pressure

1.34 mm Hg (calculated) (20 °C)

### Vapour Density (Air=1)

Not available

### Flash Point

Not applicable

### Auto-Ignition Temperature

Not applicable

### Flammable Limits - Lower

Not applicable

### Flammable Limits - Upper

Not applicable

## 10. STABILITY AND REACTIVITY

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### Reactivity

Reacts violently with acids. Reacts exothermically on dilution with water.

### Chemical Stability

Stable under normal ambient and anticipated storage and handling conditions of temperature and pressure. Absorbs carbon dioxide from the air.

### Conditions to Avoid

Avoid exposure to moisture.

### Incompatible materials

Incompatible with ammonium salts, aluminium, tin, and zinc.

### Hazardous Decomposition Products

None known.

### **Possibility of hazardous reactions**

Reacts with ammonium salts, evolving ammonia gas. Reacts readily with various reducing sugars (i.e. fructose, galactose, maltose, dry whey solids) to produce carbon monoxide. Take precautions including monitoring the tank atmosphere for carbon monoxide to ensure safety of personnel before vessel entry.

## **11. TOXICOLOGICAL INFORMATION**

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### **Toxicology Information**

Acute toxicity: No LD50 data available for the product. For the constituent Sodium hydroxide:

#### **Ingestion**

Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.

#### **Inhalation**

Breathing in mists or aerosols may produce respiratory irritation.

#### **Skin**

Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns.

#### **Eye**

A severe eye irritant. Corrosive to eyes; contact can cause corneal burns.

Contamination of eyes can result in permanent injury.

#### **Skin corrosion/irritation**

Severe irritant (rabbit).

#### **Health Hazard**

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are: For WSA format, please refer to Health Effects Section for acute effects.

#### **Chronic Effects**

No information available for the product.

## **12. ECOLOGICAL INFORMATION**

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### **Ecotoxicity**

Avoid contaminating waterways.

## **13. DISPOSAL CONSIDERATIONS**

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### **Waste Disposal**

Refer to Waste Management Authority. Dispose of contents/container in accordance with local/regional/national/international regulations.

## **14. TRANSPORT INFORMATION**

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### **Transport Information**

Road and Rail Transport:

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail; DANGEROUS GOODS.

UN No: 1824

Transport Hazard Class: 8 Corrosive

Packing Group: II

Proper Shipping Name or Technical Name: SODIUM HYDROXIDE SOLUTION

Hazchem or Emergency Action Code: 2R

Marine Transport:

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea; DANGEROUS GOODS.

UN No: 1824

Transport Hazard Class: 8 Corrosive  
Packing Group: II  
Proper Shipping Name or Technical Name: SODIUM HYDROXIDE SOLUTION  
IMDG EMS Fire: F-A  
IMDG EMS Spill: S-B

**Air Transport:**

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN No: 1824

Transport Hazard Class: 8 Corrosive

Packing Group: II

Proper Shipping Name or Technical Name: SODIUM HYDROXIDE SOLUTION

**U.N. Number**

1824

**UN proper shipping name**

SODIUM HYDROXIDE SOLUTION

**Transport hazard class(es)**

8

**Packing Group**

II

**Hazchem Code**

2R

**IERG Number**

37

## 15. REGULATORY INFORMATION

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**Poisons Schedule**

S6

**Australia (AICS)**

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

## 16. OTHER INFORMATION

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**Date of preparation or last revision of SDS**

SDS created: January 2017

**References**

Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.

Standard for the Uniform Scheduling of Medicines and Poisons.

Australian Code for the Transport of Dangerous Goods by Road & Rail.

Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.

Workplace exposure standards for airborne contaminants.

Adopted biological exposure determinants, American Conference of Industrial Hygienists (ACGIH).

Globally Harmonised System of classification and labelling of chemicals.

**User Codes**

User Title Label	User Codes
Raw material code	7000040

## END OF SDS

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