

MATERIAL SAFETY DATA SHEET CALCIUM HARDNESS

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

| | |
|----------------------|---|
| PRODUCT NAME | CALCIUM HARDNESS |
| PRODUCT NO. | AD-0776, AS 077, PK 077, AD-0772, SP 129, SP 315, SP 316, SKH 129, SKH 129C |
| APPLICATION | Testing water |
| SUPPLIER | PALINTEST AUSTRALIA & ASIA/PACIFIC 1/53 LORRAINE STREET PEAKHURST NSW 2210 AUSTRALIA TEL + 61 1300 13 15 16 FAX + 61 1300 13 19 86 palintest@palintest.com.au |
| PROPER SHIPPING NAME | LITHIUM HYDROXIDE |

2 HAZARDS IDENTIFICATION

RISK PHRASES

R34 Causes burns.

SAFETY PHRASES

S24/25 Avoid contact with skin and eyes.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S60 This material and its container must be disposed of as hazardous waste.

HUMAN HEALTH

See section 11 for additional information on health hazards.

STATEMENT OF HAZARDOUS NATURE

HAZARDOUS SUBSTANCE (According to criteria of NOHSC). DANGEROUS GOODS (According to ADG Code).

DG CLASS

Class 8: Corrosive substances.

| | |
|---------------|------|
| PACKING GROUP | II |
| UN NO. | 2680 |
| HAZCHEM CODE | 2X |

3 COMPOSITION/INFORMATION ON INGREDIENTS

| Name | EC No. | CAS-No. | Content % | Classification (67/548) |
|---|-----------|-------------|-----------|-------------------------|
| LITHIUM HYDROXIDE | 215-183-4 | 1310-65-2 | 10-30% | Xn;R22. C;R34. |
| ETHYLENEDIAMINETETRAACETIC ACID TETRASODIUM SALT HYDRATE | 200-573-9 | 194491-31-1 | <5.5 % | Xn;R22. Xi;R41. |

The Full Text for all R-Phrases is Displayed in Section 16

COMPOSITION COMMENTS

The Data Shown is in accordance with the latest EC Directives.

4 FIRST-AID MEASURES

NOTES TO THE PHYSICIAN

Treat Symptomatically.

INHALATION

Unlikely route of exposure as the product does not contain volatile substances.

INGESTION

Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions. Never give liquid to an unconscious person.

CALCIUM HARDNESS

SKIN CONTACT

Wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring along these instructions.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use fire-extinguishing media appropriate for surrounding materials.

SPECIAL FIRE FIGHTING PROCEDURES

No specific fire fighting procedure given.

HAZCHEM CODE 2X

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet.

ENVIRONMENTAL PRECAUTIONS

Avoid release to the environment.

SPILL CLEAN UP METHODS

Wear necessary protective equipment. Stop leak if possible without risk. DO NOT touch spilled material! Absorb in vermiculite, dry sand or earth and place into containers.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Observe good chemical hygiene practices.

STORAGE PRECAUTIONS

Keep in original container. Keep separate from food, feedstuffs, fertilisers and other sensitive material. Store in a cool place. Store in a dry place.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT



RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

HAND PROTECTION

Protective gloves are recommended.

EYE PROTECTION

Wear approved chemical safety goggles where eye exposure is reasonably probable.

HYGIENE MEASURES

No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals.

9 PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------|-------------------|
| APPEARANCE | Solid |
| COLOUR | Pink. |
| ODOUR | Odourless. |
| SOLUBILITY | Soluble in water. |

10 STABILITY AND REACTIVITY

CALCIUM HARDNESS**STABILITY**

Stable under the prescribed storage conditions.

CONDITIONS TO AVOID

There are no known conditions that are likely to result in a hazardous situation.

MATERIALS TO AVOID

No specific, or groups of materials are likely to react to produce a hazardous situation.

HAZARDOUS DECOMPOSITION PRODUCTS

When heated, toxic and corrosive vapours/gases may be formed.

11 TOXICOLOGICAL INFORMATION**TOXICOLOGICAL INFORMATION**

No information available.

12 ECOLOGICAL INFORMATION**ECOTOXICITY**

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

MOBILITY

The product is soluble in water.

BIOACCUMULATION

No data available on bioaccumulation.

DEGRADABILITY

No data available.

13 DISPOSAL CONSIDERATIONS**GENERAL INFORMATION**

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

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|--|--|
| PROPER SHIPPING NAME | LITHIUM HYDROXIDE |
| ROAD TRANSPORT NOTES | The product is not classified as packaged as per ADR 2013 section 3.5.1.4 |
| SEA TRANSPORT NOTES | The product is not classified as packaged as per IMDG 2012 section 3.5.1.4 |
| AIR TRANSPORT NOTES | THE PRODUCT IS NOT SUBJECT TO THE REQUIREMENTS OF IATA AS PACKAGED BASED UPON "DE MINIMIS QUANTITIES" AS PER IATA DANGEROUS GOODS REGULATIONS (54th EDITION) SUBSECTION 2.6.10.1 |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE/MARINE POLLUTANT | No. |
| UN NO. | 2680 |
| ADG CLASS NO. | 8 |
| DG CLASS | Class 8: Corrosive substances. |
| PACKING GROUP | II |
| TUNNEL RESTRICTION CODE | (E) |
| ADG LABEL NO. | 8 |
| HAZCHEM CODE | 2X |
| UN NO. SEA | 2680 |
| IMDG CLASS | 8 |
| IMDG PACK GR. | II |

CALCIUM HARDNESS

| | |
|--------------|----------|
| EMS | F-A, S-B |
| UN NO. AIR | 2680 |
| ICAO CLASS | 8 |
| AIR PACK GR. | II |

15 REGULATORY INFORMATION

LABELLING



Corrosive

CONTAINS LITHIUM HYDROXIDE

RISK PHRASES

R34 Causes burns.

SAFETY PHRASES

S24/25 Avoid contact with skin and eyes.
 S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
 S60 This material and its container must be disposed of as hazardous waste.

16 OTHER INFORMATION

ISSUED BY

L. Morgan

REVISION DATE 21/01/2014

REV. NO./REPL. SDS GENERATED 6

SAFETY DATA SHEET STATUS

Approved.

RISK PHRASES IN FULL

R34 Causes burns.
 R22 Harmful if swallowed.
 R41 Risk of serious damage to eyes.



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