

Safety Data Sheet

according to WHS Regulations

Printing date 22.02.2019

Revision: 22.02.2019

1 Identification

Product Name: NATURAL HYDRAULIC LIME (NHL)

Other Means of Identification: Mixture

Recommended Use of the Chemical and Restriction on Use: Building and Construction.

Details of Manufacturer or Importer:

Thor Helical Australia
1357 The Horsley Drive
Wetherill Park NSW 2164

Phone Number: 02 8788 8000

Emergency telephone number: National Poison Information Centre: 13 11 26

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Not classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)



corrosion

Serious Eye Damage/Irritation 1 H318 Causes serious eye damage.



Skin Corrosion/Irritation 2 H315 Causes skin irritation.

Signal Word Danger

Hazard Statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary Statements

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves / eye protection / face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

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/doctor.

P321 Specific treatment (see on this label).

P362+P364 Take off contaminated clothing and wash it before reuse.

P332+P313 If skin irritation occurs: Get medical advice/attention.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Components:

CAS: 1305-62-0	Calcium hydroxide (Ca(OH) ₂)	15 - 65%
	Serious Eye Damage/Irritation 1, H318; Skin Corrosion/Irritation 2, H315	

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CAS: 471-34-1	Carbonic acid, calcium salt (1:1)	10 - 40%
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4 First Aid Measures

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if symptoms occur.

Eye Contact:

In case of eye contact, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Give a glass of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: No adverse health effects expected.

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye damage.

Ingestion: May cause gastrointestinal irritation.

5 Fire Fighting Measures

Suitable Extinguishing Media: Foam, dry chemical powder or carbon dioxide. Do not use water.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon and calcium.

This product is not flammable, but may decompose if heated.

This product reacts exothermically with acids and water.

This product reacts with aluminium and brass in the presence of moisture, releasing flammable hydrogen gas.

Containers close to fire should be removed if safe to do so.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved dust/particulate filter respirator and full protective clothing. Evacuate all non-essential personnel from affected area. Do not breathe dust. Ensure adequate ventilation. Avoid generating dust.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so and sweep into a pile and shovel into drums for subsequent disposal. Avoid generating dust. Provide adequate ventilation.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of dust.

Do not wear contact lenses when handling this product.

Food, beverages and tobacco products should not be stored or consumed where this material is in use.

Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and

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other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep container tightly closed when not in use. Protect from extreme temperatures. Keep away from acids, water, aluminium and brass.
Do not store in aluminium containers where there is risk of moisture.

8 Exposure Controls and Personal Protection

Exposure Standards:**CAS: 1305-62-0 Calcium hydroxide (Ca(OH)₂)**NES TWA: 5 mg/m³WES TWA: 5 mg/m³**CAS: 471-34-1 Carbonic acid, calcium salt (1:1)**NES TWA: 10 mg/m³WES TWA: 10 mg/m³**Engineering Controls:**

Maintain air concentration below occupational exposure standards, providing adequate ventilation.

Respiratory Protection:

Where an inhalation risk exists, wear a Class P1 (particulate) respirator. At high dust levels, wear a powered air purifying respirator (PAPR) with Class P3 (Particulate) filter or an air-line respirator or a full-face Class P3 (particulate) respirator. See Australian/New Zealand Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

PVC, PVA, nitrile, neoprene, rubber or vinyl gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information. When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Eye and face protectors for protection against dust. See Australian/New Zealand Standard AS/NZS 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form: Powder
Colour: White or grey
Odour: Odourless

Odour Threshold: Not applicable**pH-Value:** 12 - 13**Melting point/freezing point:** >450 °C**Initial Boiling Point/Boiling Range:** Not applicable**Flash Point:** Not applicable**Flammability:** Product is not flammable.**Auto-ignition Temperature:** Not applicable**Decomposition Temperature:** 580 °C**Explosion Limits:****Lower:** Not applicable

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Upper:	Not applicable
Vapour Pressure:	Not applicable
Density at 20 °C:	2.5 - 2.66 g/cm ³
Bulk Density at 20 °C:	0.5 - 0.75 kg/m ³
Relative Density:	2.66
Vapour Density:	Not applicable
Evaporation Rate:	Not applicable
Solubility in Water at 20 °C:	1.5 g/l
Partition Coefficient (n-octanol/water):	Not applicable

10 Stability and Reactivity

Possibility of Hazardous Reactions:

Hazardous polymerisation will not occur.

This product reacts exothermically with acids and water.

This product reacts with aluminium and brass in the presence of moisture, releasing flammable hydrogen gas.

Chemical Stability: Stable at ambient temperature and under normal conditions of use.**Conditions to Avoid:**

Extreme temperatures.

When heated above 580°C this product decomposes into calcium oxide and water.

Incompatible Materials: Acids, water, aluminium and brass.**Hazardous Decomposition Products:** Oxides of carbon and calcium.

11 Toxicological Information

Toxicity:**LD₅₀/LC₅₀ Values Relevant for Classification:****CAS: 1305-62-0 Calcium hydroxide (Ca(OH)₂)**Oral LD₅₀ 7,340 mg/kg (rat)**CAS: 471-34-1 Carbonic acid, calcium salt (1:1)**Oral LD₅₀ 6,450 mg/kg (rat)**Acute Health Effects****Inhalation:** No adverse health effects expected.**Skin:** Causes skin irritation.**Eye:** Causes serious eye damage.**Ingestion:** May cause gastrointestinal irritation.**Skin Corrosion / Irritation:** Causes skin irritation.**Serious Eye Damage / Irritation:** Causes serious eye damage.**Respiratory or Skin Sensitisation:** Based on classification principles, the classification criteria are not met.**Germ Cell Mutagenicity:** Based on classification principles, the classification criteria are not met.**Carcinogenicity:** This product does NOT contain any IARC listed chemicals.**Reproductive Toxicity:** Based on classification principles, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - Single Exposure:**

Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

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Aspiration Hazard: Based on classification principles, the classification criteria are not met.**Chronic Health Effects:** No information available**Existing Conditions Aggravated by Exposure:** No information available**Additional toxicological information:** No information available

12 Ecological Information

Ecotoxicity: This product will increase the pH of water. High pH levels can be harmful to aquatic life.**Aquatic toxicity:****CAS: 1305-62-0 Calcium hydroxide (Ca(OH)₂)**EC₅₀/48 h 49.1 mg/l (invertebrata)EC₅₀/72 h 184.57 mg/l (aquatic plants)LC₅₀/96 h 50.6 mg/l (fish)

158 mg/l (invertebrata)

CAS: 471-34-1 Carbonic acid, calcium salt (1:1)LC₅₀/96 h >56,000 mg/l (mosquito fish)**Persistence and Degradability:** No further relevant information available.**Bioaccumulative Potential:** No further relevant information available.**Mobility in Soil:** This product is only slightly soluble in water and therefore has low mobility in soil.**Other adverse effects:** No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number Not regulated**Proper Shipping Name** Not regulated**Dangerous Goods Class** Not regulated**Packing Group:** Not regulated

15 Regulatory Information

Australian Inventory of Chemical Substances:CAS: 1305-62-0 Calcium hydroxide (Ca(OH)₂)CAS: 10034-77-2 Silicic acid (H₄SiO₄), calcium salt (1:2)

CAS: 471-34-1 Carbonic acid, calcium salt (1:1)

Standard for the Uniform Scheduling of Drugs and Poisons (SUSMP) - Poison Schedule:

Not Scheduled.

16 Other Information

Date of Preparation or Last Revision: 22.02.2019

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Prepared by: MSDS.COM.AU Pty Ltd

www.msds.com.au

Abbreviations and acronyms:

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC₅₀: Lethal concentration, 50 percentLD₅₀: Lethal dose, 50 percent

IARC: International Agency for Research on Cancer

STEL: Short Term Exposure Limit

TWA: Time Weighted Average

NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)

Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2

Serious Eye Damage/Irritation 1: Serious eye damage/eye irritation – Category 1

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document "Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - February 2016"

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