

# NEOFERMA AUSTRALIA PTY LTD SAFETY DATA SHEET

## ECOBUST®

Version: V1.2      Revision Date: 05.04.2024      SDS Number: 0023      Date of last issue: 05.04.2024  
Date of first issue: 15.08.2012

### 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

#### 1.1 Product identifier

**Product name**      ECOBUST (EXPANSIVE MORTAR)  
**Synonyms**          ECOBUST • EXPANSIVE MORTAR)

#### 1.2 Uses and uses advised against

**Uses**                CONSTRUCTION INDUSTRY • MINING INDUSTRY  
For controlled demolition, reinforced concrete cutting, rock breaking, quarrying, stone dimension, mining and excavating.

#### 1.3 Details of the supplier of the product

**Supplier name**      NEOFERMA AUSTRALIA PTY LTD  
**Address**            Flagstone Dr, Burleigh Heads, QLD, 4220, AUSTRALIA  
**Telephone**         (07) 5576 4922  
**Website**            <https://neoferma.com/>

#### 1.4 Emergency telephone numbers

**Emergency**         0419773005

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

CLASSIFIED AS HAZARDOUS ACCORDING TO SAFE WORK AUSTRALIA CRITERIA

##### Physical Hazards

Not classified as a Physical Hazard

##### Health Hazards

Skin Corrosion/Irritation: Category 2  
Serious Eye Damage / Eye Irritation: Category 1  
Specific Target Organ Toxicity (Single Exposure): Category 3

##### Environmental Hazards

Not classified as an Environmental Hazard

#### 2.2 GHS Label elements

**Signal word**         DANGER

##### Pictograms



##### Hazard statements

H315    Causes skin irritation  
H318    Causes serious eye damage  
H335    May cause respiratory irritation

##### Prevention statements

P280    Wear protective clothing/eye/protection/face protection  
P261    Avoid breathing dust/fume/gas/mist/vapours/spray  
P264    Wash thoroughly after handling  
P271    Use only outdoors or in a well-ventilated area.

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**Response statements**

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 IF INHALED: Remove 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 is advised - see first aid instructions.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before re-use.

**Storage statements**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.

**Disposal statements**

P501 Dispose of contents/container in accordance with relevant regulations.

**2.3 Other hazards**

No information provided.

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**3. COMPOSITION/ INFORMATION ON INGREDIENTS**

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**3.1 Substances / Mixtures**

| Ingredient                          | CAS Number | EC Number | Content   |
|-------------------------------------|------------|-----------|-----------|
| CALCIUM HYDROXIDE                   | 1305-62-0  | 215-137-3 | 75 to 90% |
| SILICON DIOXIDE (SILICA, AMORPHOUS) | 7631-86-9  | 231-545-4 | 5 to 10%  |
| SODIUM CARBONATE                    | 497-19-8   | 207-838-8 | 1 to 3%   |

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**4. FIRST AID MEASURES**

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**4.1 Description of first aid measures**

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

**Inhalation** If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

**Skin** If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. Continue flushing with water until advised to stop by a Poisons Information Centre or a doctor.

**Ingestion** For advice, contact a Poisons Information Centre on 13 11 26 (Australia Wide) or a doctor (at once). If swallowed, do not induce vomiting.

**First aid facilities** Eye wash facilities should be available.

**4.2 Most important symptoms and effects, both acute and delayed**

Irritating to the eyes, skin and respiratory system, with possible burns.

**4.3 Immediate medical attention and special treatment needed**

Treat symptomatically.

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**5. FIRE FIGHTING MEASURES**

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**5.1 Extinguishing media**

Use an extinguishing agent suitable for the surrounding fire.

**5.2 Special hazards arising from the substance or mixture**

Non flammable. May evolve toxic gases if strongly heated.

**5.3 Advice for firefighters**

No fire or explosion hazard exists.

**5.4 Hazchem code - None allocated**

## 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Wear Personal Protective Equipment (PPE) as detailed in section 8 of the SDS. Clear area of all unprotected personnel. Contact emergency services where appropriate.

### 6.2 Environmental precautions

Prevent product from entering drains and waterways.

### 6.3 Methods of cleaning up

Contain spillage, then collect and place in suitable containers for reuse or disposal. Avoid generating dust.

### 6.4 Reference to other sections

See Sections 8 and 13 for exposure controls and disposal.

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Before use carefully read the product label. Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Prohibit eating, drinking and smoking in contaminated areas.

### 7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, removed from incompatible substances and foodstuffs. Ensure packages are adequately labelled, protected from physical damage and sealed when not in use.

### 7.3 Specific end uses

No information provided.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### Exposure standards

| Ingredient                     | Reference | TWA |                   | STEL |                   |
|--------------------------------|-----------|-----|-------------------|------|-------------------|
|                                |           | ppm | mg/m <sup>3</sup> | ppm  | mg/m <sup>3</sup> |
| Calcium hydroxide              | SWA [AUS] | --  | 5                 | --   | --                |
| Fumed silica (respirable dust) | SWA [AUS] | --  | 2                 | --   | --                |
| Sodium Carbonate (total dust)  | SWA [AUS] | --  | 10                | --   | --                |

### Biological limits

No biological limit values have been entered for this product.

### 8.2 Exposure controls

**Engineering controls** Avoid inhalation. Use in well ventilated areas. Where an inhalation risk exists, mechanical extraction ventilation is recommended. Maintain dust levels below the recommended exposure standard.

#### PPE

**Eye / Face** Wear dust-proof goggles.

**Hands** Wear PVC or rubber gloves.

**Body** When using large quantities or where heavy contamination is likely, wear coveralls.

**Respiratory** 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 a Class P3 (Particulate) respirator.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|                           |                  |
|---------------------------|------------------|
| Appearance                | GREY POWDER      |
| Odour                     | ODOURLESS        |
| Flammability              | NON FLAMMABLE    |
| Flash point               | NOT RELEVANT     |
| Boiling point             | 1182°C           |
| Melting point             | NOT AVAILABLE    |
| Evaporation rate          | NOT AVAILABLE    |
| pH                        | NOT AVAILABLE    |
| Vapour density            | NOT AVAILABLE    |
| Specific gravity          | NOT AVAILABLE    |
| Solubility (water)        | SLIGHTLY SOLUBLE |
| Vapour pressure           | NOT AVAILABLE    |
| Upper explosion limit     | NOT RELEVANT     |
| Lower explosion limit     | NOT RELEVANT     |
| Partition coefficient     | NOT AVAILABLE    |
| Autoignition temperature  | NOT AVAILABLE    |
| Decomposition temperature | NOT AVAILABLE    |
| Viscosity                 | NOT AVAILABLE    |
| Explosive properties      | NOT AVAILABLE    |
| Oxidising properties      | NOT AVAILABLE    |
| Odour threshold           | NOT AVAILABLE    |

### 9.2 Other information

|                  |     |
|------------------|-----|
| Relative density | 3.0 |
|------------------|-----|

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Carefully review all information provided in sections 10.2 to 10.6.

### 10.2 Chemical stability

Stable under recommended conditions of storage.

### 10.3 Possibility of hazardous reactions

Polymerization will not occur.

### 10.4 Conditions to avoid

Avoid contact with incompatible substances.

### 10.5 Incompatible materials

Incompatible (violently) with acids (e.g. nitric acid), maleic anhydride, nitroethane, nitromethane, nitroparaffins, nitropropane and phosphorus.

### 10.6 Hazardous decomposition products

May evolve toxic gases if heated to decomposition.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

**Acute toxicity** Ingestion may result in irritation of the mouth, throat, oesophagus and gastrointestinal tract.

#### Information available for the ingredients:

| Ingredient                          | Oral LD50                      | Dermal LD50                    | Inhalation LC50                            |
|-------------------------------------|--------------------------------|--------------------------------|--|
| CALCIUM HYDROXIDE                   | 7300 mg/kg (mouse)             | --                             | --   |
| SILICON DIOXIDE (SILICA, AMORPHOUS) | 3160 mg/kg (rat)               | --                             | --   |
| SODIUM CARBONATE                    | > 2000 mg/kg (rat)<br>(NICNAS) | > 2000 mg/kg (rat)<br>(NICNAS) | > 2000 mg/m <sup>3</sup> (rat)<br>(NICNAS) |

**Skin** Contact may result in irritation, redness, pain, rash, dermatitis and possible skin burns.

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|                                 |  |
|---------------------------------|--|
| <b>Eye</b>                      | Contact may result in irritation, lacrimation, pain, redness, corneal burns and possible permanent damage.         |
| <b>Sensitisation</b>            | Not classified as causing skin or respiratory sensitisation.   |
| <b>Mutagenicity</b>             | Not classified as a mutagen.   |
| <b>Carcinogenicity</b>          | Not classified as a carcinogen.  |
| <b>Reproductive</b>             | Not classified as a reproductive toxin.  |
| <b>STOT - single exposure</b>   | Over exposure to dust may result in severe mucous membrane irritation of nose and throat, coughing and bronchitis. |
| <b>STOT - repeated exposure</b> | Not classified as causing organ damage from repeated exposure.   |
| <b>Aspiration</b>               | Not classified as causing aspiration.  |

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**12. ECOLOGICAL INFORMATION**

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**12.1 Toxicity**

The aquatic toxicity of calcium hydroxide is due to its alkalinity.

**12.2 Persistence and degradability**

Neutralised to calcium carbonate by absorption of atmospheric carbon dioxide and is not degraded by oxidation.

**12.3 Bioaccumulative potential**

Calcium hydroxide does not bioaccumulate in the environment.

**12.4 Mobility in soil**

Not available, but considered low.

**12.5 Other adverse effects**

No information provided.

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**13. DISPOSAL CONSIDERATIONS**

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**13.1 Waste treatment methods**

**Waste disposal**            Neutralise with dilute acid (e.g. 3 mol/L hydrochloric acid) or similar. For small amounts, absorb with sand or similar and dispose of to an approved landfill site. Contact the manufacturer/supplier for additional information (if required).

**Legislation**                Dispose of in accordance with relevant local legislation.

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**14. TRANSPORT INFORMATION**

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**NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE, IMDG OR IATA**

|                                    | <b>LAND TRANSPORT (ADG)</b> | <b>SEA TRANSPORT (IMDG / IMO)</b> | <b>AIR TRANSPORT (IATA / ICAO)</b> |
|------------------------------------|-----------------------------|-----------------------------------|------------------------------------|
| <b>14.1 UN Number</b>              | None allocated.             | None allocated.                   | None allocated.                    |
| <b>14.2 Proper Shipping Name</b>   | None allocated.             | None allocated.                   | None allocated.                    |
| <b>14.3 Transport hazard class</b> | None allocated.             | None allocated.                   | None allocated.                    |
| <b>14.4 Packing Group</b>          | None allocated.             | None allocated.                   | None allocated.                    |

**14.5 Environmental hazards**

No information provided.

**14.6 Special precautions for user**

**Hazchem code**                None allocated.

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**15. REGULATORY INFORMATION**

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**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Poison schedule**            A poison schedule number has not been allocated to this product using the criteria in the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

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|                           |  |
|---------------------------|--|
| <b>Classifications</b>    | Safework Australia criteria is based on the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals.   |
| <b>Inventory listings</b> | <b>AUSTRALIA: AICS (Australian Inventory of Chemical Substances)</b><br>All components are listed on AICS, or are exempt.<br><b>CANADA: DSL (Canadian Domestic Substances List)</b><br>All components are listed on the DSL, or are exempt.<br><b>UNITED STATES: TSCA (US Toxic Substances Control Act)</b><br>All components are listed on the TSCA inventory, or are exempt. |

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**16. OTHER INFORMATION**

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**Additional information**      **RESPIRATORS:** In general the use of respirators should be limited and engineering controls employed to avoid exposure. If respiratory equipment must be worn ensure correct respirator selection and training is undertaken. Remember that some respirators may be extremely uncomfortable when used for long periods. The use of air powered or air supplied respirators should be considered where prolonged or repeated use is necessary.

**PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:**  
The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as form of product, method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

**HEALTH EFFECTS FROM EXPOSURE:**  
It should be noted that the effects from exposure to this product will depend on several factors including: form of product; frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

|                      |                   |   |
|----------------------|-------------------|---|
| <b>Abbreviations</b> | ACGIH             | American Conference of Governmental Industrial Hygienists   |
|                      | CAS #             | Chemical Abstract Service number - used to uniquely identify chemical compounds                   |
|                      | CNS               | Central Nervous System  |
|                      | EC No.            | EC No - European Community Number   |
|                      | EMS               | Emergency Schedules (Emergency Procedures for Ships Carrying Dangerous Goods)                     |
|                      | GHS               | Globally Harmonized System  |
|                      | GTEPG             | Group Text Emergency Procedure Guide  |
|                      | IARC              | International Agency for Research on Cancer   |
|                      | LC50              | Lethal Concentration, 50% / Median Lethal Concentration   |
|                      | LD50              | Lethal Dose, 50% / Median Lethal Dose   |
|                      | mg/m <sup>3</sup> | Milligrams per Cubic Metre  |
|                      | OEL               | Occupational Exposure Limit   |
|                      | pH                | relates to hydrogen ion concentration using a scale of 0 (highly acidic) to 14 (highly alkaline). |
|                      | ppm               | Parts Per Million   |
|                      | STEL              | Short-Term Exposure Limit   |
|                      | STOT-RE           | Specific target organ toxicity (repeated exposure)  |
|                      | STOT-SE           | Specific target organ toxicity (single exposure)  |
|                      | SUSMP             | Standard for the Uniform Scheduling of Medicines and Poisons                                      |
|                      | SWA               | Safe Work Australia   |
|                      | TLV               | Threshold Limit Value   |
|                      | TWA               | Time Weighted Average   |

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**Report status**

This document has been compiled by RMT on behalf of the manufacturer, importer or supplier of the product and serves as their Safety Data Sheet ('SDS').

It is based on information concerning the product which has been provided to RMT by the manufacturer, importer or supplier or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer, importer or supplier.

While RMT has taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, RMT accepts no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS.

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