

NexPand
ROCK BREAKING CHEMICAL

**GLOBALLY
HARMONISED SYSTEM
SAFETY DATA SHEET
(GHSSDS)**



HARLEN SUPPLIES
QUARRYING | MINING | CONSTRUCTION

**Environmentally Friendly Expansive
Mortar for Rock & Concrete Breaking**

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Section 1 – Chemical Product and Company Identification

Product Name: Soundless Cracking Agent

Synonyms: Calcium Hydroxide

CAS Number: 1305-62-0

Molecular Weight: 74.09

Chemical Formula: Ca(OH)_2

Packaging: 4 × 5 kg sachets per 20 kg carton

Supplier:

Harlen Supplies (PTY) Ltd

Unit D46, Ifafi Business Centre, Cnr. Mauser Street & Cannon Crescent, Ifafi, Hartbeespoort, 0260, South Africa

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Section 2 – Composition & Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
1305-62-0	Calcium Hydroxide	>95%	215-137-3

Section 3 – Hazards Identification

- Causes severe skin irritation and burns.
- Harmful if swallowed.
- Avoid breathing dust or vapour.
- Use with adequate ventilation.
- Avoid contact with eyes, skin, and clothing.
- Wash thoroughly after handling.
- Keep container closed.

Section 4 – First Aid Measures

First Aid: Call a physician immediately.

- **Skin Contact:** Flush skin with water for at least 15 minutes while removing contaminated clothing and shoes.
- **Eye Contact:** Rinse eyes thoroughly with water for at least 15 minutes, lifting eyelids occasionally. Seek medical attention.
- **Inhalation:** Move to fresh air. If not breathing, provide artificial respiration. If breathing is difficult, give oxygen.
- **Ingestion:** Administer water or milk. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Section 5 – Fire Fighting Measures

- **Extinguishing Media:** Suitable for surrounding fire.
- **Special Hazards:** None known.
- **Protective Equipment:** Wear self-contained breathing apparatus and full protective gear.

Section 6 – Accidental Release Measures

- Use appropriate personal protective equipment (Section 8).
- Avoid dust generation.
- Sweep or vacuum up and place in a suitable container for disposal.
- Ensure proper ventilation.

Section 7 – Handling & Storage

Handling:

- Avoid inhalation and contact with skin, eyes, and clothing.
- Use only with adequate ventilation.
- Wash hands after handling.

Section 7 – Handling & Storage

Storage:

- Store in a cool, dry, and well-ventilated area.
- Keep container tightly sealed.
- Store away from incompatible substances.

Section 8 – Exposure Controls & Personal Protection

Engineering Controls:

- Use local exhaust ventilation.
- Provide eyewash and safety shower stations.

Chemical Name	ACGIH	NIOSH	OSHA
Calcium Hydroxide	5 mg/m ³ TWA	5 mg/m ³ TWA	15 mg/m ³ TWA (total dust); 5 mg/m ³ TWA (respirable fraction)

Personal Protective Equipment:

- **Respiratory:** Dust mask.
- **Hands:** Suitable gloves.
- **Eyes:** Safety goggles with side shields.
- **Skin/Clothing:** Appropriate protective clothing.



Section 9 – Physical & Chemical Properties

- **Physical State:** Solid
- **Appearance:** White
- **Odour:** Odourless
- **Boiling Point:** 2850°C
- **Melting Point:** Not available
- **Specific Gravity:** 2.2–2.6
- **Solubility in Water:** 0.1 g/100 g
- **Vapour Pressure:** Not available

Section 9 – Physical & Chemical Properties

- **Flash Point:** Not applicable
- **Auto-ignition Temperature:** Not applicable
- **Percent Volatile:** 0%

Section 10 – Stability & Reactivity

- **Stability:** Stable under normal conditions.
- **Incompatible Materials:** Boric oxide, acids, fluorine, organic materials.
- **Decomposition Products:** None known.
- **Hazardous Polymerization:** Will not occur.
- **Conditions to Avoid:** Contact with incompatible substances.

Section 11 – Toxicological Information

- **Carcinogenicity:** Not listed by ACGIH, IARC, NTP, or CA Prop 65
- **Epidemiology / Teratogenicity / Reproductive / Mutagenicity / Neurotoxicity:** No data available

Section 12 – Ecological Information

- **Eco-toxicity:** Mosquitofish, TLm = 240 ppm/24h
- **Environmental Data:** Not reported
- **Other Information:** No data available

Section 13 – Disposal Considerations

- Dispose at a certified hazardous waste facility
- Material may be hazardous depending on contamination
- Comply with local, state, and federal regulations
- Dispose of in accordance with cement waste requirements

Section 14 – Transport Information

- Not regulated for transportation

Section 15 – Regulatory Information

US Federal Regulations:

- **TSCA Inventory (Toxic Substances Control Act):**

CAS# 1305-62-0 is listed on the TSCA inventory.

- **Health & Safety Reporting List:**

None of the ingredients are listed.

- **Chemical Test Rules:**

None of the ingredients in this product are subject to a Chemical Test Rule under TSCA.

- **SARA (Superfund Amendments and Reauthorization Act) Codes:**

CAS# 1305-62-0: Immediate (acute) health hazard.

- **SARA Section 313 (Toxic Chemical Release Reporting):**

This product does not contain any chemicals subject to reporting requirements under Section 313.

- **Clean Air Act:**

This product does not contain any hazardous air pollutants.

It does not contain any Class 1 or Class 2 ozone-depleting substances.

- **TSCA Section 12(b):**

None of the chemicals are listed under Section 12(b).

- **TSCA Significant New Use Rule (SNUR):**

No chemicals in this material are subject to a SNUR.

- **CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):**

This product does not contain substances with a reportable quantity (RQ) under CERCLA.

- **SARA Section 302 – Extremely Hazardous Substances:**

None of the chemicals in this product have a Threshold Planning Quantity (TPQ).

- **Clean Water Act (CWA):**

This product does not contain any substances listed as:

Hazardous Substances, Priority Pollutants or Toxic Pollutants.

- **OSHA (Occupational Safety and Health Administration):**

None of the components are considered highly hazardous under OSHA regulations.

Section 15 – Regulatory Information (Continue)

European / International Regulations:

European Union (EU) – Classification and Labelling

- **Hazard Symbol:**

Xi – Irritant

- **Risk Phrases (R):**

R41 – Risk of serious damage to eyes.

- **Safety Phrases (S):**

S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S39 – Wear eye/face protection.

- **WGK – German Water Hazard Class (Wassergefährdungsklasse):**

WGK Classification: 1 (slightly hazardous to water)

Substance: CAS# 1305-62-0

Canada:

- **DSL/NDSL (Domestic Substances List / Non-Domestic Substances List):**

CAS# 1305-62-0 is listed on Canada's DSL.

- **WHMIS Classification (Workplace Hazardous Materials Information System):**

WHMIS Class: E – Corrosive Material

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations, and the SDS contains all required information.

- **Canadian Ingredient Disclosure List:**

CAS# 1305-62-0 is listed.

Section 16 – Additional Information

- **NFPA Ratings:**

- Health: 3
- Flammability: 0
- Reactivity: 0

- **Label Hazard Warnings:**

DANGER! Harmful if swallowed or inhaled. Causes burns to skin and eyes. Severe respiratory irritant.

- **Label Precautions:**

Avoid contact with skin, eyes, or clothing. Do not inhale dust. Use only with proper ventilation. Keep container closed.

- **Label First Aid:**

Wipe off excess from skin. Rinse immediately with water. Seek medical attention.

GHS Safety Data Sheet: NexPand Rock Breaking Chemical NEX-HQS SDS 02 Date: 01-06-2025 Version No: 05



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