

RAPID TIME EXPORTS

Material Safety Data Sheet (MSDS)

EXPANSIVE MORTAR (CALCIUM HYDROXIDE)

Section 1 - Chemical Product and Company Identification

Product Name: CALCIUM OXIDE, EXPANSIVE MORTAR, NON EXPLOSIVE DEMOLITION POWDER, RAPID-CRACK

Supplier: RAPID TIME EXPORTS

Address: NATHI KA BAG, NEAR SBI ATM, SHOP NO 4 AND 5, OPP. SOORSAGAR POST OFFICE, SOORSAGAR, JODHPUR, RAJASTHAN, 342001

M. No.: +919950040014

Emergency M.No.: +919929367721

Email: info@rapidtimeexports.com

Use: Stone quarry, Very hard rock, Concrete demolition, Construction and Mining etc.

Section 2 - Hazards Identification

Fatalness grade: None

Hazard Symbols: None

Invasion route: Skin touch, Eyes touch, Inhalation, Ingestion.

Health hazards: This product is a strong base, irritation and corrosion. There is strong irritant to the respiratory tract, inhalation of dust can cause chemical pneumonia. Eye and skin irritation strong, can cause burns. Oral irritation and burns to the digestive tract.

Long-term exposure to the onset of the palm skin keratinocytes, chapped, nail deformation.

Environment hazards: /

Burn & burst danger: Non-flammable, corrosive, irritant, can cause the body burns.

Section 3 - Composition/Information on Ingredient

Composition:

Chemical Name	Percent	CAS NO.	EC NO.	Molecular Formula
Calcium oxide	92.01	1305-78-8	215-138-9	CaO
Sodium oxide	1.40	1313-59-3	215-208-9	Na ₂ O
Magnesium oxide	1.59	1309-48-4	215-171-9	MgO
Silicon dioxide	1.63	60676-86-0	262-373-8	SiO ₂
Aluminum oxide	1.14	1344-28-1	215-691-6	Al ₂ O ₃
Ferric oxide	2.23	1309-37-1	215-168-2	Fe ₂ O ₃

Section 4 - First-aid Measures

Skin touch: Immediately remove contaminated clothing, wash with vegetable oil or mineral oil. Rinse the skin with plenty of water. Get medical aid.

Eyes touch: Lifting the upper and lower eyelids. flush the eyes with plenty of water or saline water. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. Keep the respiratory tract smooth. Use oxygen if feel hard to breathe. Get medical aid.

Ingestion: Rinse mouth with water. Get medical aid.

Section 5 - Fire-fighting Measures

Danger characteristic: Reacts violently with water. Causes burns. Risk of serious damage to eyes.

Harmful combustion products: Calcium oxide

Fire-Fighting method & Media: The staff must equipped with filter-mask (full mask) or isolated breathing apparatus. The staff must wear the cloths which can defence the fire and the toxic gas. Put out the fire the upwind direction. Move the container from fire to open air. Spraying water on the containers in the fireplace to keep them cool until finish extinguishment. Media: dry powder, carbon dioxide and sandy clay.

Section 6 - Accidental Release Measures

Emergency treatment: Rapidly evacuate people from leakage pollution area to safe area. Make Isolation and strictly restricte daccess. It is suggested that the staff wear self-contained breathing apparatus and dress anti-acid. Shut off the divulgence source as soon as possible. Avoid dust formation, Sweep up, then place into a suitable container for disposal. Recycle or transport to waste treatment place for handling.

Section 7 - Handling and Storage

Handling: Avoid generating and breathing dust. Avoid contact with skin and eyes. Avoid contact with incompatible materials. Avoid contact with moisture. Wear personal protective equipment when handling. Use in a well-ventilated area. Keep containers securely sealed when not in use. Keep dry. Reacts violently with water. Local exhaust ventilation may be required for safe working, i.e. to keep exposures below required standards, otherwise PPE is required. Wash hand with soap and water after handling.

Section 8 - Exposure Controls and Personal Protection

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eye wash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

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

Respiratory Protection: Dust mask recommended

Hand Protection: Wear appropriate gloves to prevent skin

Eye Protection: Safety Glass with side shields

Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

Section 9 - Physical and Chemical Properties

Appearance: A white, odourless solid. Commercial in lump, pebble, pelletised and powdered forms. Reacts with water to form CALCIUM OXIDE, EXPANSIVE MORTAR, RAPID-CRACK with evolution of heat.

Odor: None

Flash Point: None

Boiling Point: NA

Melting Point / Freezing Point (°C): >1000

Upper explosive limit: NA

Lower explosive limit: NA

Vapor Pressure: NA

Vapor density: NA

Density: $\geq 3.2-3.4 \text{ g/cm}^3$

pH Value: Not applicable

Ignition temperature: NA

Decomposition temperature: No data

Section 10 - Stability and Reactivity

Stability: Product is considered stable under normal handling conditions.

Incompatible materials: Water, acids, flammable or combustible

Conditions to avoid: /

Hazardous Polymerization: NA

Hazardous Decomposition Products: /

Section 11 - Toxicological Information

Acute Toxicity:

Product/Ingredient Name	Result	Species	Dose	Exposure
Calcium Hydroxide	LD50	Rat	7340 mg/kg	-

Irritation: No data

Sensitization: No data

Mutagenicity: No data

Carcinogenicity: No data

Reproductive toxicity: No data

Acute Toxicity: No data

Irritation: No data

Specific target organ toxicity – single exposure: No data

Specific target organ toxicity-repeated exposure: No data

Aspiration hazard: No data

Others: None

Section 12 - Ecological Information

Eco-toxicity: No data

Persistence and degradability: Non-biodegradable

Bio accumulative potential: No data

Mobility in soil: No data

Other harmful effects: None

Section 13 - Disposal Considerations

Nature of waste: /

Waste disposal methods: Refer to National or Local regulations before handling. Recycle wherever possible. Waste lime may be used to neutralise acids and acid spill. Otherwise, bury residue in an authorised landfill.

Attention abandoned: None

Section 14 - Transport Information

Shipping Name: None

Hazard class or Division: This Product is not dangerous for transport

Packing Group (if applicable): 054

Marine pollutant (Y/N): None

Limited Qty (Yes or Not): Not

Type and number of outer packages: One carton

Type and number of inner packages: Four plastic bags

Gross weight in kg: 20.6 or 27.1

Net Weight in kg: 20 or 25

ADR: Not restricted

RID: Not restricted

ADNR: Not restricted

IMDG: Not restricted

IATA: Not restricted

Transport Attentions: Examine whether the package of containers are integrate and tight-closed or not before transport. No divulgence, no collapse, no precipitation or no damage during the course of transportation. Don't put goods together with flammable or combustible materials, acids, food chemicals.

Section 15 - Regulatory Information

US FEDERAL

TSCA

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

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 1305-62-0: immediate.

Section 313 No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this products are considered highly hazardous by OSHA.

STATE

CAS# 1305-62-0 can be found on the following state right to know lists:
California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labelling in Accordance with EC Directives

Hazard Symbols:

XI

Risk Phrases:

R 41 Risk of serious damage to eyes.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 39 wear eye/face protection.

WGK (Water Danger/Protection)

CAS# 1305-62-0: 1

Canada – DSL/NDSL

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

Canada – WHMIS

This product has a WHMIS classification of "E".

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

Canadian Ingredient Disclosure List

CAS# 1305-62-0 is listed on the Canadian Ingredient Disclosure List.






Section 16 - Additional Information

NFPA Ratings: Health: 3 Flammability: 0 Reactivity : 0

Label Hazard Warning:

DANGER! HARMFUL IF SWALLOWED OR INHALED. CAUSES BURNS TO SKIN AND EYES. CAUSES SEVERE IRRITATION TO RESPIRATORY TRACT.

Label Precautions:

-  Do not get in eyes, on skin, or on clothing.
-  Wash thoroughly after handling
-  Do not breathe dust.
-  Keep container closed.
-  Use only with adequate ventilation.

Label First Aid:

In case of contact, wipe off excess material from skin then immediately

****End of Report****