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NO.2625010293

SAFETY DATA SHEET

Product Name: EXPANSIVE MORTAR, HIGH RANGE
SOUNDLESS CRACKING AGENT, CALCIUM
OXIDE

Effective Date: 2025-01-01

Compiler: He Xiaoshuang

Checker: Liu Wangqing

Approver: Dongxuesheng



Shanghai Institute of Chemical Industry Testing Co., Ltd.



XIAMEN PRODRILL EQUIPMENT CO., LTD.

SAFETY DATA SHEET

EXPANSIVE MORTAR, HIGH RANGE SOUNDLESS CRACKING AGENT, CALCIUM OXIDE

SECTION1 PRODUCT AND COMPANY IDENTIFICATION

Product name: EXPANSIVE MORTAR, HIGH RANGE SOUNDLESS CRACKING AGENT, CALCIUM OXIDE

Company: XIAMEN PRODRILL EQUIPMENT CO., LTD.
Address: UNIT 805, NO.3 JINZHONG ROAD, HULI DISTRICT, XIAMEN, FUJIAN, 361000,
P. R, CHINA

Email: sales4@prodrill.com.cn/sales@prodrill.com.cn/sales3@prodrill.com.cn

Fax: 86-592-5162951

Emergency Phone: 86-592-5187323

Recommend use of the chemical and restrictions on use: For safe quarrying, or the safe removal of concrete structures and crushing. It is forbidden to eat or get into eyes.

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SECTION2 HAZARDS IDENTIFICATION

GHS Classification:

Physical Hazards:
Not Classified

Health Hazards:
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 1
Specific target organ toxicity-Single exposure Category 3 (Respiratory tract irritation)

Environmental Hazards:
Hazardous to the aquatic environment-Acute hazard Category 3

The hazards not mentioned are not applicable or no data available.

Label Elements:

Pictogram:



**Hazard Statements:**

- H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H335 May cause respiratory irritation.
 H402 Harmful to aquatic life.

Prevention Precautionary Statements:

- P264+P265 Wash hands thoroughly after handling. Do not touch eyes.
 P280 Wear protective gloves/eye protection /face protection.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P271 Use only outdoors or with adequate ventilation.
 P273 Avoid release to the environment.

Response Precautionary Statements:

- P302+P352 IF ON SKIN: Wash with plenty of water.
 P332+P317 If skin irritation occurs: Get medical help.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P305+P354+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P317 Get medical help.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P319 Get medical help if you feel unwell.

Storage Precautionary Statements:

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

Disposal Precautionary Statements:

- P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

Other Hazards:

No data available.

SECTION3 INFORMATION ON INGREDIENTS

Product name: EXPANSIVE MORTAR, HIGH RANGE SOUNDLESS CRACKING AGENT, CALCIUM OXIDE

Ingredient	Concentration	CAS No.	EC No.
Mixtures:			
Calcium oxide	92.01%	1305-78-8	215-138-9
Ferric oxide	2.23%	1309-37-1	215-168-2
Silicon dioxide	1.63%	60676-86-0	262-373-8
Magnesium oxide	1.59%	1309-48-4	215-171-9
Sodium oxide	1.4%	1313-59-3	215-208-9
Aluminum oxide	1.14%	1344-28-1	215-691-6

SECTION4 FIRST-AID MEASURES

Skin Exposure:

In case of contacting with skin, carefully and gently brush the contaminated skin to remove all traces of product, flush with copious amounts of water. If irritation persists, Call a physician.

Eye Exposure:

In case of contacting with eyes, lift the eyelids and flush with copious amounts of water for at least 15 minutes immediately. Call a physician immediately.

Inhalation Exposure:

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Call a physician.

Oral Exposure:

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Most Important Symptoms/Effects, Acute and Delayed:

No data available.

Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary:

No data available.

SECTION5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media:

Suitable: Dry chemical, Carbon dioxide or appropriate foam.

Specific Hazards Arising from the Chemical:

Take care as it may decompose upon combustion or in high temperatures to generate calcium oxides, iron oxides, silicon oxides, aluminum oxides, sodium oxides, magnesium oxides.

Special Protective Action for Fire-fighters:

Firefighters should wear self-contained breathing apparatus and protective clothing to prevent to contact with skin and eyes. Fire-extinguishing work is done from the windward. Isolate the accident area. Entry to noninvolved personnel should be controlled.

SECTION6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protective equipment. Remove all sources of ignition. Avoid breathing dust. Keep people away from and upwind of leakage or spillage. Ensure adequate ventilation. Entry to noninvolved personnel should be controlled around the leakage area by roping off.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Avoid entering drains. Avoid release to the environment.

Methods and Materials for Containment and Cleaning up:

Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

SECTION7 HANDLING AND STORAGE

Precautions for Safe Handling:

Operators should be trained and strictly abide by operating procedures. Wear appropriate protective clothing and gloves. Avoid inhalation. Do not contact with eyes. Avoid contacting with skin and clothing. Prevent generation of dust. Handling is performed in a well ventilated place. Keep away from ignition sources, heat and flame. Incompatibilities: Water, acids. Handling and unloading should be light, to prevent packaging broken, damp and cause losses. Working place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

Conditions for Safe Storage, Including any Incompatibilities:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from ignition sources, heat and flame. Incompatibilities: Water, acids. Storage place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

SECTION8 EXPOSURE CONTROL/PPE

Control Parameters:

GBZ 2.1-2019 Occupational Exposure Limits for Hazardous Agents in the Workplace - Part 1: Chemical Hazardous Agents:

Calcium oxide: PC-TWA 2mg/m³

Magnesium oxide fume: PC-TWA 10mg/m³

Aluminium oxide dust: PC-TWA total dust 4mg/m³

ACGIH:

Calcium oxide: TLV-TWA 2 mg/m³

Magnesium oxide: TLV-TWA 10 mg/m³

Aluminum oxide: TLV-TWA 1 mg/m³

Appropriate Engineering Controls:

Mechanical exhaust required. Safety shower and eye bath.

Individual Protection Measures:

Eye/Face Protection:

Wear chemical safety glasses.

Skin Protection:

Hand Protection: Wear compatible protective gloves.

Body Protection: Wear appropriate protective clothing.

Respiratory Protection:

Wear government approved respirator.

Thermal Hazards:

No data available.

Other Protect:

No smoking, drinking and eating at working site. Wash thoroughly after handling.

SECTION9 PHYSICAL/CHEMICAL PROPERTIES

Appearance: White powder
Odor: Weak odor
pH Value: >12 (50g/L suspension)
Solubility: Slightly soluble in water
Melting Point/Freezing Point: Not applicable

Boiling Point, Not applicable
 Initial Boiling
 Point and Boiling
 Range:
 Flash Point Not applicable
 (Closed Cup):
 Density/Relative No data available
 Density:
 Kinematic Not applicable
 Viscosity:
 Lower/Upper No data available
 Explosion
 Limit/Flammabili
 ty Limit:
 Vapour Pressure: No data available

Relative Vapor No data available
 Density:
 Partition No data available
 Coefficient
 N-Octanol/Water(
 Log Value):
 Autoignition No data available
 Temperature:
 Decomposition No data available
 Temperature:
 Particle No data available
 Characteristics:

Flammability The substance is not classified in Division 4.1 Flammable Solids.
 (Solid, Gas):

SECTION10 STABILITY AND REACTIVITY

Reactivity:

No data available.

Chemical Stability:

Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions:

No data available.

Conditions to Avoid:

No data available.

Incompatible Materials:

Water, acids.

Hazardous Decomposition Products:

Calcium oxides, iron oxides, silicon oxides, aluminum oxides, sodium oxides, magnesium oxides.

SECTION11 TOXICOLOGICAL INFORMATION

Acute Toxicity:

No data available.

Skin Corrosion/Irritation:

Causes skin irritation.

Serious Eye Damage/Irritation:

Causes serious eye damage.

Respiratory Sensitization:

No data available.

Skin Sensitization:

No data available.

Germ Cell Mutagenicity:

No data available.

Carcinogenicity:

No data available.

Reproductive Toxicity:

No data available.

Specific Target Organ Toxicity –Single Exposure:

May cause respiratory irritation.

Specific Target Organ Toxicity –Repeated Exposure:

No data available.

Aspiration Hazard:

No data available.

SECTION12 ECOLOGICAL INFORMATION**Toxicity:**

Calcium oxide:

Toxicity to fish static test LC₅₀ – *Oncorhynchus mykiss* (rainbow trout) – 50.6 mg/l – 96 h (OECD Test Guideline 203)Toxicity to daphnia and other aquatic invertebrates static test EC₅₀ – *Daphnia magna* (Water flea) – 49.1 mg/l – 48 h (OECD Test Guideline 202)Toxicity to algae static test ErC₅₀ – *Pseudokirchneriella subcapitata* – 184.57 mg/l – 72 h (OECD Test Guideline 201)Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) NOEC – *Crangon crangon* (shrimp) – 32 mg/l – 14 d Remarks: (ECHA)**Persistence and Degradability:**

No data available.

Bioaccumulative Potential:

No data available.

Mobility in Soil:

No data available.

Other Adverse Effects:

No data available.

SECTION13 DISPOSAL CONSIDERATION**Disposal Methods:**

Recycle as far as possible. If unable to recycle, it is recommended to use incineration method for disposal under supervision. This product should not be disposed of by discharge into sewers. Return empty containers to the manufacturer or dispose of them in accordance with national and local regulations. Follow the relevant provisions of national and local regulations before disposal. It is recommended to be disposed of by a qualified chemical waste treatment department.

SECTION14 TRANSPORT INFORMATION

RID/ADR (2023 Edition): The product is not subject to RID/ADR.

IATA DGR(66th Edition): Proper Shipping Name: Calcium oxide

IMO IMDG CODE(2022 Edition): The product is not subject to IMO IMDG CODE according to special provision 960.

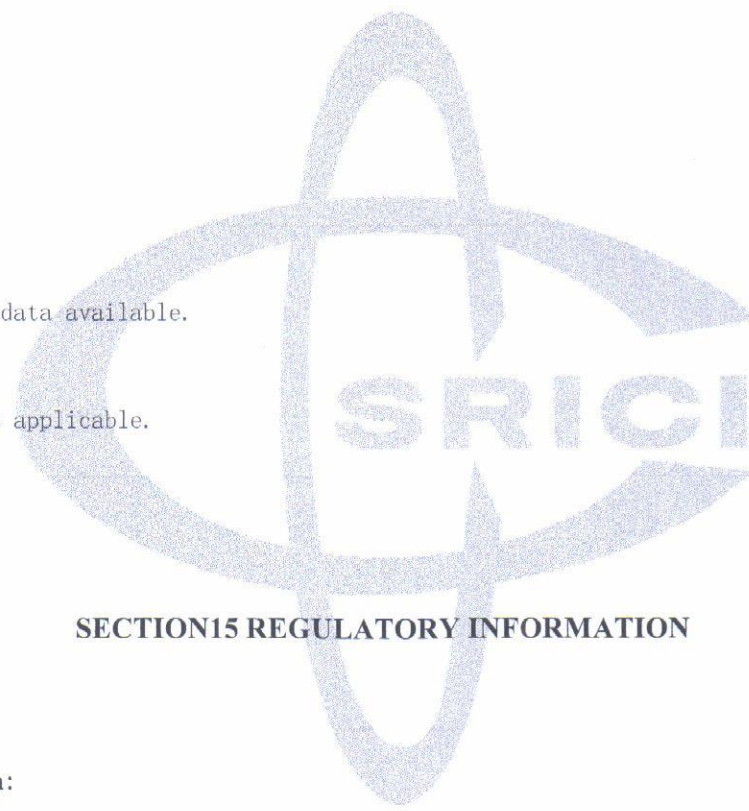
List of Dangerous Goods Number: 82522
Goods by Name of Product: Calcium oxide
Rail(TB/T 30006-2022):

Regulations Concerning Road Transportation of Dangerous Goods (JT/T 617-2018) : The product is not subject to Regulations Concerning Road Transportation of Dangerous Goods (JT/T 617-2018) , Part 2 and 3, incorporating amendment No.1:

Environmental Hazards: No.

Special Precautions for User: No data available.

Transport in Bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.



SECTION15 REGULATORY INFORMATION

Montreal Protocol: Not listed.

Stockholm Convention: Not listed.

Rotterdam Convention: Not listed.

EINECS/ELINCS: All ingredients in the product are listed.

TSCA: All ingredients in the product are listed.

IECSC: All ingredients in the product are listed.

SECTION16 OTHER INFORMATION

Preparation Date: 2025-01-01

Preparation Department:

Shanghai Institute of Chemical Industry Testing Co., Ltd. Tel(Fax): +86-21-52815377/31765555

Revision:

0

Reference Standard:

GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS (GHS), 10th revised edition

Abbreviation and Acronyms:

CAS: Chemical Abstracts Service EC: European Commission PC-TWA: Permissible concentration-time weighted average PC-TWA: Permissible concentration-time weighted average TLV-TWA: Threshold limit value-time weighted average ACGIH: American Conference of Governmental Industrial Hygienists LC₅₀: Median lethal dose EC₅₀: Effective concentration of substance that causes 50% of the maximum response ErC₅₀: EC₅₀ in terms of reduction of growth rate NOEC: No observed effect concentration OECD: Organization for Economic Cooperation and Development ECHA: European Chemicals Agency RID: Regulations concerning the International Carriage of Dangerous Goods by Rail ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road IATA DGR: International Air Transport Association Dangerous Goods Regulations IMO IMDG CODE: International Maritime Organization International Maritime Dangerous Goods Code MARPOL: International Convention for the Prevention of Pollution from Ships IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances TSCA: Toxic Substances Control Act IECSC: Inventory of Existing Chemical Substances in China

Other Information:

This SDS is compiled based on the information such as ingredients provided by the applicant and our current knowledge. This SDS shall be used only as a guide. The users of this SDS must make independent judgments on the correctness and completeness and then decide its suitability according to the actual situation. The users should take the relevant legal responsibilities for the consequences of use.

END OF REPORT