

**MATERIAL SAFETY DATA SHEET**  
**Non-Explosive Demolition Agent**  
**(Expansive Mortar)**

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY**

**PRODUCT NAME:** Non-Explosive Demolition Agent (Expansive Mortar)

**Produced by:** SinoSource Enterprise Co., Ltd.

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**2. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>INGREDIENT NAME (class)</b>	<b>CAS No. (R. No.)</b>	<b>CONTENTS</b>	<b>HEALTH</b>	<b>RISK</b>
Silicon Dioxide (SiO <sub>2</sub> )	7631-86-9	5-10%	Xi	R41
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	1344-28-1	1-5%	Xi	R41
Ferric Oxide (Fe <sub>2</sub> O <sub>3</sub> )	1309-37-1	1-5%	Xi	R41
Calcium Oxide (CaO)	1305-78-8	80-90%	Xi	R41

**COMPOSITION COMMENTS:** Mixture based on Portland type cement, organic resin.

**3. HAZARDOUS IDENTIFICATION**

Risk of serious damage to eyes. May cause irritation or burning to skin.

**4. FIRST AID MEASURES**

**INHALATION:** Move the exposed person to fresh air immediately. Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues.

**INGESTION:** DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONCIOUS PERSON VOMIT OR DRINK FLUIDS! Promptly get affected personnel to drink large volumes of water to dilute the swallowed chemical. Obtain medical advice. Provide rest, warmth and fresh air.

**SKIN:** Remove affected person from source of contamination. Wash skin thoroughly with soap and water. Get medical attention if irritation develops.

**EYES:** Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Seek Medical Attention.

**5. FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:**

This material is not flammable. Use extinguishing media that is appropriate for surrounding fire.

**NOTE: WHEN MIXED WITH WATER, THE PRODUCT EXPANDS UNDER HIGH TEMPERATURE DEVELOPMENT AND WHEN IN HOLES THE FRICTION CAUSED BY THE EXPANSION WITHIN THIS CONFINED SPACE INCREASES TO HIGH TEMPERATURE.**

## 6. ACCIDENTAL RELEASE MEASURES

### PRECAUTIONS TO PROTECT ENVIRONMENT:

Avoid subsoil penetration. Prevent product from entering drains. Do not contaminate surface water.

**NOTE: WHEN MIXING THE PRODUCT WITH WATER, DO NOT GET CLOSE TO HOLES FILLED WITH THE MIXTURE OF PRODUCT AND WATER, TO AVOID ANY ACCIDENTS TO BE CAUSED BY BLOWN OUT SHOTS.**

### SPILL CLEANUP METHODS:

1. Gather the released or spilled product with a broom or a shovel.
2. Mix it with a large amount of water.
3. Sprinkle it onto open ground.

## 7. HANDLING AND STORAGE

- Store the product under dry conditions and avoid contact with water at all times.
- **Wear Safety Goggles:** For eye protection to avoid accidental splashes. Standard Required: Safety Goggles (EN166)
- **Wear a Respiratory Mask:** Standard Required: Disposable Fine Dust Protection Mask (EN149) and filter P3 (EN143)
- **Use Rubber or Plastic Gloves:** That extends up arms as, like cement, this product can irritate the skin. Standard Required: Rubber or Plastic Gloves (EN374/EN388).
- **Working Clothes:** Should be worn.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENT NAME	CAS No	STD	LT EXP (8 hrs)	ST EXP (15 mins)
Silicon Dioxide	7631-86-9	OEL	No Std.	No Std.
Aluminium Oxide	1344-28-1	OEL	6mg/m3	No Std
Ferric Oxide	1309-37-1	OEL	5mg/m3	10mg/m3
Calcium Oxide	1305-78-8	OEL	2mg/m3	5mg/m3

### INGREDIENT COMMENTS:

Nuisance Dust 8 Hour TWA 10mg/m3 Inhalable, 4mg/ m3 Respirable.

### PROTECTIVE EQUIPMENT:

Safety goggles, rubber gloves, Respiratory dust-proof mask.

**VENTILATION:** Provide general ventilation. When using in confined areas.

**RESPIRATORS:** It is recommended to wear a Respiratory dust-proof mask. (Fine Dust Protection Mask (EN149) & filter P3 (EN143))

**PROTECTIVE GLOVES:** It is highly recommended to wear long rubber or plastic gloves. (EN374/EN388).

**EYE PROTECTION:** Wear dust-resistant safety goggles where there is danger of eye contact. (EN166)

**OTHER PROTECTION:** Wear necessary clothing to prevent repeated or prolonged skin contact. Wet cement burns can be painless so prevention of contact with skin is vital. Provide eyewash station.

**HYGIENIC WORK ROUTINES:** Wash hands at the end of each usage, before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. No eating or drinking while working with this material. **DO NOT SMOKE IN WORK AREA!**

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Powder.

**COLOUR:** Grey.

**ODOUR:** None.

**RELATIVE DENSITY:** 3.2.

**SOLUBILITY:** Slight in water.

**MELTING POINT:** 1000°C.

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable.

**CONDITIONS TO AVOID:** None.

**MATERIALS TO AVOID:** Water (storage only).

**HAZARDOUS DECOMPOSITION PRODUCTS:** None.

## 11. TOXICOLOGICAL INFORMATION

**INHALATION:** May irritate respiratory system or lungs.

**INGESTION:** May cause discomfort if swallowed.

**SKIN:** Powder may irritate the skin.

**EYES:** Risk of serious eye damage.

**TARGET ORGANS:** Skin and eyes, respiratory system, lungs.

## 12. ECOLOGICAL INFORMATION

**ENVIRONMENTAL HAZARDS:** Not regarded as dangerous for the environment.

## 13. DISPOSAL CONSIDERATIONS

**DISPOSAL METHODS:** Mix with large amount of water. Sprinkle it onto open ground.

**Please adhere to Local Authorities Advice at all times.**

## 14. TRANSPORT INFORMATION

**ROAD TRANSPORT NOTES:** Not classified for road transport.

**RAIL TRANSPORT NOTES:** Not classified for rail transport.

**SEA TRANSPORT NOTES:** Not classified for sea transport

**AIR TRANSPORT NOTE:** Not classified for air transport.

## 15. REGULATORY INFORMATION

**LABEL FOR SUPPLY:**



IRRITANT

**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.

S-24 Avoid contact with skin and eyes.

**EC DIRECTIVES:** European Communities (Classification, Packaging, Labeling and Notification of Dangerous Substances) Regulations 2003 (S.I. No. 116 of 2003).

European Communities (Classification, Packaging, Labeling and Notification of Dangerous Preparations) Regulations 2004

(S.I. No. 62 of 2004).

**STATUTORY INSTRUMENTS:** Safety, Health and Welfare at Work Act, 1989 (No.7 of 1989).

Safety, Health and Welfare at Work (General Application)

(Amendment) Regulations 2001 (S.I. No.188 of 2001)

Safety, Health and Welfare at Work (Chemical Agents)

Regulations 2001 (S.I. No.619 of 2001)

**APPROVED CODE OF PRACTICE:** 2002 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001.

## **16. OTHER INFORMATION**

**INFORMATION SOURCES:** Dangerous Properties of Industrial Materials Report, N.Sax et.al.

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