SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code

Product Name Sakrete Set Accelerator

Contains

Synonyms Calcium Aluminate Cement

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use
Hydraulic binder. Used for production of refractory concretes and mortars and as ingredient of construction materials and construction chemistry products

Uses advised against
No information available

1.3. Details of the supplier of the safety data sheet

Sakrete of North America
625 Griffith Rd., Ste 100
Charlotte, NC 28217 - USA
T 866-725-7383

For further information, please contact

1.4. Emergency telephone number

For Hazardous Materials [or Dangerous Goods]
Incident, Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
1-800-424-9300 [USA] / +1 703-527-3887 [CAN]

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

REGULATION (EC) No 1272/2008
The product is not classified as dangerous according to Regulation (EC) No. 1272/2008

Classification according to Directive 67/548/EEC or 1999/45/EC
Not classified

R-Phrases
Not applicable

GHS Classification
The product is not classified as hazardous according to GHS

2.2. Label Elements

Symbol(s)
Not applicable
Signal Word
None

Hazard Statements
None

Precautionary Statements
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P280 - Wear eye protection/ face protection
P285 - In case of inadequate ventilation wear respiratory protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

2.3. Other information
No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Weight-%</th>
<th>REACH Reg. No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum oxide</td>
<td>1344-28-1</td>
<td>0-50</td>
<td>01-2119529248-35-0024</td>
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<td></td>
<td>01-2119529248-35-0125</td>
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<td>01-2119529248-35-0238</td>
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<tr>
<td>Calcium aluminate</td>
<td>65997-16-2</td>
<td>40-100</td>
<td></td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

4.1. Description of first aid measures

Eye Contact
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Skin Contact
Wash skin with soap and water.

Ingestion
Rinse mouth

Inhalation
Remove to fresh air

General Advice
If symptoms persist, call a physician
Show this safety data sheet to the doctor in attendance

4.2. Most important symptoms and effects, both acute and delayed
Mild eye irritant.
Mild skin irritant

4.3. Indication of any immediate medical attention and special treatment needed
Notes to Physician
Treat symptomatically

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media
Suitable Extinguishing Media
The product itself does not burn
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Extinguishing media which must not be used for safety reasons
No information available
6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures
Wear personal protective equipment
Avoid dust formation

6.2. Environmental precautions
Do not flush into surface water or sanitary sewer system
Do not contaminate surface water

6.3. Methods and material for containment and cleaning up
Recover product. Place into appropriate container for disposal.

Methods for Cleaning Up
Shovel or sweep up

7. HANDLING AND STORAGE

7.1. Precautions for Safe Handling
Handling
Provide appropriate exhaust ventilation at places where dust is formed

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice

Exposure scenario
No information available

7.2. Conditions for safe storage, including any incompatibilities
Keep in a dry place
Protect from moisture.

7.3. Specific end use(s)
No information available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EU</th>
<th>United Kingdom</th>
<th>France</th>
<th>Spain</th>
<th>Germany OEL (TWA)</th>
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</thead>
<tbody>
<tr>
<td>Aluminum oxide</td>
<td></td>
<td></td>
<td>VME: 10 mg/m³</td>
<td>VLA-ED: 10 mg/m³</td>
<td>1.25 mg/m³</td>
</tr>
<tr>
<td>1344-28-1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>6.0 mg/m³(a)</td>
</tr>
<tr>
<td>Calcium aluminate</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1.25 mg/m³</td>
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<tr>
<td>65997-16-2</td>
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<td></td>
<td></td>
<td></td>
<td>6.0 mg/m³(a)</td>
</tr>
</tbody>
</table>

(a) GOEL - Germany - TRGS 900 - Occupational Exposure Limits - TWAs, (a) exempt facilities listed in 2.4(8) and (9)

<table>
<thead>
<tr>
<th>Component</th>
<th>Italy</th>
<th>Portugal</th>
<th>Netherlands</th>
<th>Finland</th>
<th>Denmark</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminum oxide</td>
<td></td>
<td>TWA: 10 mg/m³</td>
<td></td>
<td></td>
<td>TWA: 10 mg/m³</td>
</tr>
<tr>
<td>1344-28-1 (0-50)</td>
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<td></td>
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<tr>
<td>Component</td>
<td>OSHA PEL</td>
<td>ACGIH TWA</td>
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<td></td>
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<tr>
<td>---------------------------</td>
<td>----------------------------------------------</td>
<td>-----------------------------------------------</td>
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</tr>
<tr>
<td>Aluminum oxide 1344-28-1</td>
<td>15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)</td>
<td>1 mg/m³ TWA (respirable fraction)</td>
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</tr>
</tbody>
</table>

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2 Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas

Personal protective equipment

Eye Protection Safety glasses with side-shields

Skin Protection No special protective equipment required.

Hand Protection No special protective equipment required.

Respiratory Protection In case of insufficient ventilation, wear suitable respiratory equipment When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

Environmental exposure controls No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- **Physical State** Powder
- **Color** Off-white
- **Odor** None
- **pH** 11.3 - 11.5
- **Flash point (°C) DEGREES** Not applicable
- **Autoignition temp (°F) DEGREES** Does not ignite
- **Boiling point/range (°C) DEGREES** Not determined
- **Melting Point/Range** 1650 - 1820
- **Melting point (°C) DEGREES** °C
- **Solubility** Slightly soluble
- **Density** 2.8-3.3 g/cm³
- **Bulk Density** 750-1100 kg/m³

10. STABILITY AND REACTIVITY

10.1 Reactivity

None under normal processing

10.2 Chemical Stability

Stable under normal conditions

10.3 Possibility of Hazardous Reactions

None under normal processing

10.4 Conditions to Avoid

None under normal processing

10.5 Incompatible materials

None under normal processing

10.6 Hazardous Decomposition Products

Not applicable
11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity

- Acute oral toxicity: No information available
- Acute dermal toxicity: No information available
- Acute inhalation toxicity: No information available

Chronic Toxicity

- Irritation: Conclusive but not sufficient for classification
- Corrosivity: No information available
- Sensitization: No information available
- Mutagenic Effects: No information available
- Carcinogenic effects: No information available
- Reproductive Effects: No information available
- Developmental Effects: No information available
- Aspiration Hazard: No information available

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity effects
- Water hazard class 1 (German Regulation): slightly hazardous for water
- WGK Kenn-Nr. 2652 (Calcium aluminate)

12.2. Persistence and degradability
No information available

12.3. Bioaccumulative potential
No information available

12.4. Mobility in soil
No information available

12.5. Results of PBT and vPvB assessment
No information available

12.6. Other adverse effects
None known

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues/Unused Products
- Disposal should be in accordance with applicable regional, national and local laws and regulations

Contaminated Packaging
- Empty containers should be taken to an approved waste handling site for recycling or disposal

14. TRANSPORT INFORMATION

Note: Not classified as dangerous in the meaning of transport regulations

IMDG/IMO: Not regulated.

RID: Not regulated.
15. REGULATORY INFORMATION

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

International Inventories

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Complies</th>
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</thead>
<tbody>
<tr>
<td>TSCA</td>
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<tr>
<td>EINECS/ELINCS</td>
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<tr>
<td>DSL/NDSL</td>
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<tr>
<td>PICCS</td>
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<td>ENCS</td>
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<tr>
<td>AICS</td>
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</tr>
<tr>
<td>KECL</td>
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</tbody>
</table>

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

15.2 Chemical Safety Assessment
A Chemical Safety Assessment has been carried out

16. OTHER INFORMATION

Key literature references and sources for data
www.ChemADVISOR.com/

Prepared By

Issuing Date
Revision Date
This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet