



**Material Safety Data Sheet**  
**Concrete Masonry Set Accelerator**  
© Akona Manufacturing LLC.  
Version 1.0

**Akona Manufacturing, LLC.**  
**A TCC Materials Company**  
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**Emergency Telephone Number:**  
651-688-9116  
**Information Telephone Number**  
651-905-8137

**Revision Date**  
June 2015

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**Section 1: Product Identification**

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Product Type: Liquid Accelerator

**Product Name:**

Akona Concrete Masonry Set Accelerator

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**Section 2: Hazard Identification**

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Warning.

**Applicable hazard statements:**  
May intensify fire; strong oxidizer  
Causes serious eye irritation.  
Causes skin irritation  
Harmful if swallowed.

This product has been evaluated according to GHS and 29CFR1910.1200, Appendix A. It is categorized as an Oxidizing Liquid, Hazard Category 3; Eye Irritant, Hazard Category 2; Skin Irritant, and Acutely Toxic Hazard Category 4.

**Applicable Precautionary Statements:**

**Prevention**

Keep away from heat.

Keep/Store away from clothing, reducing agents, and combustible materials.

Take any precaution to avoid mixing with combustibles.

Wear eye protection/face protection (chemical safety goggles) and protective gloves.

Wash exposed skin, particularly hands, thoroughly after handling.

Do not eat, drink, or smoke when using this product.

**Response**

In case of fire, use an extinguisher appropriate for surrounding environment.

If In eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

If on skin: wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs, get medical attention.

If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth.

**Disposal:**

Dispose of contents/container in accordance with local and state regulations.



This product is designed to be mixed with concrete. See the safety data sheet and follow recommended precautions for the concrete.

HMIS® Rating: Health: 2 Fire: 0 Reactivity: 1  
HMIS® is a registered trademark of the National Paint and Coatings Association  
NFPA Rating: Health: 2 Fire: 0 Instability: 1 Oxidizer

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### Section 3: Hazardous Ingredients/Composition

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Ingredient	Typical Percentage	CAS #
Water.....	40-60%	7732-18-5
Calcium nitrate tetrahydrate.....	40-60%	13477-34-4
Dyes, adjuvants, stabilizers.....	<1%	*

\*Specific chemical identities withheld as trade secret. They are available upon request to health professionals, employees and their designated representatives in accord with 29CFR1910.1200(i).

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### Section 4: First Aid Measures

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**Inhalation:**

Typically not an inhalation hazard unless sprayed. If any irritation develops, move to fresh air. Evaluate conditions of use.

**Eye contact:**

Hold eyelids apart and flush eyes with plenty of water. Remove contact lenses. At least fifteen minutes of flushing is recommended. If any irritation persists, get medical attention.

**Skin Contact:**

Rinse with plenty of water. Remove any contaminated clothing and continue rinsing.

**Ingestion:**

Rinse mouth. If patient can drink, give plenty of water. Check with the Poison Control Center or a doctor. Do not induce vomiting unless directed to do so by medical personnel.

**Symptoms of overexposure:** Irritating to eyes and skin. If sprayed, can irritate the respiratory tract, causing coughing, scratchy throat. Prolonged or repeated skin contact can cause a skin rash, drying, itching, and redness. Ingestion can cause headache, dizziness, weakness, breathing difficulties, blood pressure loss.

**Note to physician:** Treat as nitrite poisoning. Can result in methemoglobinemia, with symptoms of headaches, heart beat irregularities, blood pressure loss, cyanosis.

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### Section 5: Fire Fighting Measures

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**Fire extinguishing media:** Use extinguisher suitable for surrounding material. For dried material, any Class A fire extinguisher will suffice.



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**Special fire fighting procedures:** Cool any adjacent containers

**Unusual fire and explosion hazards:** None.

**Hazardous combustion products:** oxides of nitrogen.

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### Section 6: Accidental Release Measures

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Contain and soak up with inert absorbent material (clay, vermiculite). Do not use combustible materials, such as sawdust. Clean area with water. Dispose of in accord with local and state regulations.

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### Section 7: Handling and Storage

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Store away from combustible materials. To protect the product, keep from freezing or excessive heat.

Keep container tightly closed.

Wash hands after use.

Do not eat, drink, or use tobacco products when handling any chemical products.

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### Section 8: Exposure Controls/Personal Protection

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**Occupational Exposure Limits:** None established

**Engineering Controls:**

No special ventilation is required

**Personal protective equipment**

**Respiratory protection:** Not required under conditions of normal use.

**Hand protection:** Wear chemical-resistant water-impermeable gloves.

**Eye protection:** Splash goggles recommended to prevent direct contact. Use face shield if facial protection is needed.

**Other protective equipment:** rubber apron/boots as needed to prevent direct contact with skin.

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### Section 9: Physical and Chemical Properties

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**Appearance and odor:**

Blue-green liquid, no significant odor

**Flash point:**

noncombustible, but an oxidizer: can increase the intensity of fires and facilitate combustion.

**Flammable limits:**

N/A

**Boiling Point:**

Above 212°F (100°C)

**Specific Gravity:**

similar to water

**Solubility in water:**

soluble

**Evaporation Rate:**

not determined.

**Evaporation rate (butyl acetate = 1):** <1



**Vapor pressure:** similar to water  
**VOC:** none  
**pH:** neutral

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### **Section 10: Stability and Reactivity**

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**Stability:** stable

**Conditions to avoid:** Keep away from combustible materials.

**Incompatibility:** organic materials, reducing agents, ammonia, hydrazine

**Hazardous polymerization:** will not occur

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### **Section 11: Toxicological Information**

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No ingredients are reported as aspiration hazards, reproductive toxicants or germ cell mutagens. No ingredients are listed as carcinogenic according to IARC, ACGIH, NTP, or OSHA.

Reported LD50 (rat, oral) for calcium nitrate (anhydrous) is 302 mg/kg. Calcium nitrate tetrahydrate LD50 (rat, oral) is 3900 mg/kg.

This chemical has an irritating action on skin and mucus membranes. Not absorbed through the skin. Oral toxicity is likely due to nitrate reduction to nitrite in the mouth and stomach, causing methemoglobinemia.

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### **Section 12: Ecological Information**

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Product as a whole has not been tested.

Relatively low toxicity to fish, aquatic animals.

**Persistence and degradability**

The primary non-water ingredient is unlikely to biodegrade.

**Mobility in soil:**

Likely to be mobile in soil (will not sorb onto soil)

**Bioaccumulation:** based on ingredients, not likely to bioaccumulate

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### **Section 13: Disposal Considerations**

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Do not sewer or dump on the ground

As provided, not a RCRA-regulated waste.

Dispose of in accordance with federal, state, and local regulations. Dried material may usually be disposed of as industrial solid waste.



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### Section 14: Transportation

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**DOT shipping name:** Oxidizing liquid, NOS (calcium nitrate)

**DOT Hazard Class:** 5.1, PGIII

**Identification Number:** UN3139

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### Section 15: Regulatory Information

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This product does not contain any

- chemicals regulated under:  
CERCLA  
SARA 302 EHS
- Hazardous Air Pollutants.
- chemicals known to the state of California to cause cancer or reproductive effects.

Calcium nitrate is on the New Jersey Right to Know Hazardous Substance List. Calcium nitrate (water dissociable nitrate compounds) is reportable under SARA Section 313. SARA 311/312 classified as immediate hazard, fire.

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### Section 16: Other Information

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Per NPFA 430, inorganic nitrates are considered Class 1 oxidizers: oxidizers that do not moderately increase the burning rate of combustible materials with which they come into contact.

Additional information on the product is available at: [www.tccmaterials.com](http://www.tccmaterials.com)

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