



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Rapid Set FAST

**Other means of identification**

**Product code** 808100000

**Recommended use** Industrial use.

**Recommended restrictions** Workers (and your customers or users in the case of resale) should be informed of the potential presence of respirable dust. Appropriate training in the proper use and handling of this material should be provided as required under applicable regulations.

### Manufacturer/Importer/Supplier/Distributor information

**Company name** CTS Cement Manufacturing Corporation

**Address** 12442 Knott Street  
Garden Grove, CA 92841  
United States

**Telephone** 1-800-929-3030

**E-mail** info@ctscement.com

**Contact person** Safety Officer

**Emergency telephone number** 1-800-929-3030 (8 AM - 5 PM)

## 2. Hazard(s) identification

**Physical hazards** Not classified.

**Health Hazards** Skin irritation Category 2  
Serious eye damage/eye irritation Category 1

**OSHA defined hazards** Not classified.

### Label elements



**Signal word** Danger

**Hazard statement** Causes skin irritation. Causes serious eye damage. Avoid inhalation of dust. Avoid ingestion. Avoid contact with skin, eyes and clothing.

### Precautionary statement

**Prevention** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Use in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

**Response** If exposed or concerned: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. If ingested: Remove person from area. Call a poison center/doctor if you feel unwell.

**Storage** Keep container tightly closed. Store in dry location. Store away from incompatible materials described in section 10.

**Disposal**  
**Hazard(s) not otherwise classified (HNOC)**

Dispose of contents/container in accordance with local/regional/national/international regulations.  
None known.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	CAS number	%
Aluminum Sulfate	10043-01-3	60-100

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

**Inhalation** If material is inhaled, remove the affected person immediately from area. Call a physician if symptoms develop or persist.

**Skin contact** Remove contaminated clothing. Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**Eye contact** Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Eyelids to be held apart. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

**Ingestion** Immediately rinse mouth and drink plenty of water. Do not induce vomiting unless told to by a poison control center or doctor. Call an ambulance and take these instructions. Get medical attention if symptoms occur.

**Most important symptoms/effects, acute and delayed** May cause eye irritation. Can cause corneal burns. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Upper respiratory tract irritation. Coughing. Discomfort in the chest. Shortness of breath. Wheezing. Skin irritation.

**Indication of immediate medical attention and special treatment needed** Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. Can cause corneal burns.

**General information** If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

### 5. Fire-fighting measures

**Suitable extinguishing media** Not combustible, if there is a fire use appropriate media for surrounding fire conditions.

**Unsuitable extinguishing media** Water

**Specific hazards arising from the chemical** Not combustible. Decomposes on heating emitting toxic fumes of sulfur and aluminum oxides.

**Special protective equipment and precautions for firefighters** During fire, gases hazardous to health may be formed.

**Fire fighting equipment/instructions** Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do so without risk.

**Specific methods** Use standard firefighting procedures and consider the hazards of other involved materials.

**General fire hazards** No unusual fire or explosion hazards noted.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid inhalation of material. Avoid skin contact. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

### Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Collect dust using a vacuum cleaner. Minimize dust generation and accumulation. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

### Environmental precautions

Avoid discharge into drains or water courses.

## 7. Handling and storage

### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Do not breathe in material. Do not get this material in contact with eyes. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Take precautionary measures against static discharges.

### Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store in dry location. Store away from incompatible materials (see Section 10 of the SDS). Keep away from ignition sources, heat or flame. Protect from direct sunlight.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
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#### US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
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Aluminum Sulfate (CAS 10043-01-3)	TWA	2.00 mg/m <sup>3</sup>	Total dust.
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#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
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Aluminum Sulfate (CAS 10043-01-3)	TWA	2.00 mg/m <sup>3</sup>	Total dust.
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#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
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## US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
<b>Biological limit values</b>		No biological exposure limits noted for the ingredient(s).	
<b>Exposure guidelines</b>		Occupational exposure to nuisance dust (total and respirable) should be monitored and controlled.	
<b>Appropriate engineering controls</b>		Good general ventilation should be used. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn.	
<b>Individual protection measures, such as personal protective equipment</b>			
<b>Eye/face protection</b>		Wear safety glasses or safety goggles unless full face respirator is in use.	
<b>Skin protection</b>			
<b>Hand protection</b>		Wear appropriate chemical resistant gloves.	
<b>Other</b>		Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.	
<b>Respiratory protection</b>		Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.	
<b>Thermal hazards</b>		Wear appropriate thermal protective clothing, when necessary.	
<b>General hygiene considerations</b>		When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Observe any medical surveillance requirements.	

## 9. Physical and chemical properties

### Appearance

<b>Physical state</b>	Solid.
<b>Form</b>	Powder.
<b>Color</b>	White
<b>Odor</b>	Odorless
<b>Odor threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	Not applicable.
<b>Initial boiling point and boiling range</b>	Not applicable.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Non combustible.

### Upper/lower flammability or explosive limits

<b>Flammability limit - lower (%)</b>	Not applicable.
<b>Flammability limit - upper (%)</b>	Not applicable.

<b>Vapor pressure</b>	Not applicable.
<b>Vapor density</b>	Not applicable.
<b>Relative density</b>	1.70 @ 17°C
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	870 g/L at 0°C
<b>Partition coefficient (n-octanol/water)</b>	
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition temperature</b>	Not applicable.
<b>Viscosity</b>	Not applicable.
<b>Other information</b>	
<b>Bulk density</b>	Not applicable.
<b>Partition coefficient (oil/water)</b>	Not applicable.
<b>VOC (Weight %)</b>	Not Tested.

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport. Absorbs moisture or water from surrounding air.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization will not occur. Reacts with moisture forming sulfuric acid.
<b>Conditions to avoid</b>	Avoid exposure to moisture. Avoid dust generation.
<b>Incompatible materials</b>	Air, water, strong bases.
<b>Hazardous decomposition products</b>	Sulfur and aluminum oxides.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Inhalation of dusts may cause respiratory irritation. Prolonged inhalation may be harmful.
<b>Skin contact</b>	May cause skin irritation.
<b>Eye contact</b>	May cause severe eye irritation. Contamination of eyes can results in permanent injury.
<b>Ingestion</b>	Swallowing may cause nausea, vomiting, diarrhea, and gastrointestinal irritation.

**Symptoms related to the physical, chemical and toxicological characteristics** May cause eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Upper respiratory tract irritation. Coughing. Discomfort in the chest. Shortness of breath. Wheezing. Skin irritation.

### Information on toxicological effects

**Acute toxicity** May cause respiratory irritation.

<b>Components</b>	<b>Species</b>	<b>Test Results</b>
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Oral		
Aluminum Sulfate	Mice	6207 mg/kg
Eye		
Aluminum Sulfate	Rabbit	10 mg/ 24 hr

**Skin corrosion/irritation** May cause skin irritation.

**Serious eye damage/eye irritation** May cause eye damage.

### Respiratory or skin sensitization

<b>Respiratory sensitization</b>	May cause respiratory irritation and sensitization.
<b>Skin sensitization</b>	May cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** Occupational exposure to respirable dust should be monitored and controlled.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

**NTP Report on Carcinogens**

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Reproductive toxicity** The results of animal studies gave no indication of a fertility impairing effect.

**Specific target organ toxicity - single exposure** May cause respiratory irritation.

**Specific target organ toxicity - repeated exposure** May cause damage to organs (Lungs) through prolonged or repeated exposure.

**Aspiration hazard** Due to the physical form of the product it is not an aspiration hazard.

**Chronic effects** Prolonged or repeated exposure may cause lung injury. May cause skin disorders if contact is repeated or prolonged.

## 12. Ecological information

**Ecotoxicity** No data available. Avoid exposure to waterways.

**Persistence and degradability** No data available.

**Bioaccumulative potential** No data available.

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

### DOT

Not regulated as dangerous goods.

**IATA**

Not regulated as dangerous goods.

**IMDG**

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.**15. Regulatory information****US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Listed CWA, Sec. 311 (b)(4)

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****Hazard categories** Immediate Hazard - Yes  
Delayed Hazard - No  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No**SARA 302 Extremely hazardous substance**

Chemical name	CAS number	% by wt.
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**SARA 311/312 Hazardous chemical** Yes**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.**US state regulations** WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.**US. Massachusetts RTK - Substance List**

Chemical name	CAS number	% by wt.
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**US. New Jersey Worker and Community Right-to-Know Act**

Chemical name	CAS number	% by wt.
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**US. Pennsylvania Worker and Community Right-to-Know Law**

Chemical name	CAS number	% by wt.
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## US. California Proposition 65

US - California Proposition 65 - Carcinogens &amp; Reproductive Toxicity (CRT): Listed substance

**⚠ WARNING**CANCER and REPRODUCTIVE HARM - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision**

Issue date	19-June-2018
Revision date	19-June-2018
Version #	02
HMIS® ratings	Health: 2 Flammability: 1 Physical hazard: 0

**Disclaimer** CTS Cement Manufacturing Corporation cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.