



MATERIAL SAFETY DATA SHEET - MSDS

**RAPID SET® Concrete Mix**

Date Issued: 01-Mar-2010

**SECTION 1 – PRODUCT AND COMPANY INFORMATION**

<p><b>Supplier</b>                  CTS Cement Manufacturing Corp.                  11065 Knott Ave., Suite A                  Cypress, CA 90630, United States                  Telephone Number: 714-379-8260                  FAX Number: 714-379-8270                  Email: info@ctscement.com                  Website: www.ctscement.com</p>	<p><b>Manufacturer</b>                  CTS Cement Manufacturing Corp.                  11065 Knott Ave., Suite A                  Cypress, CA 90630, United States                  Telephone Number: 714-379-8260                  FAX Number: 714-379-8270                  Email: info@ctscement.com                  Website: www.ctscement.com</p>	<table border="1"> <tr><td>Health</td><td>1</td></tr> <tr><td>Fire</td><td>0</td></tr> <tr><td>Reactivity</td><td>0</td></tr> <tr><td>Personal Protection</td><td>E</td></tr> </table>	Health	1	Fire	0	Reactivity	0	Personal Protection	E
Health	1									
Fire	0									
Reactivity	0									
Personal Protection	E									
<p><b>Supplier Emergency Contact</b>                  1-714-379-8260</p>	<p><b>Manufacturer Emergency Contact</b>                  1-714-379-8260</p>									
<p><b>Product Name:</b> Rapid Set Concrete Mix  <b>CAS Number:</b> N/A  <b>Chemical Family:</b> Cementitious Mortar</p>	<p><b>MSDS Number:</b>  <b>Product Code:</b></p>									

**SECTION 2 – COMPONENT INFORMATION**

Ingredient (Specific Chemical Identity, Common Name)	CAS Number	% of Total Weight
Calcium Sulfoaluminate Cement	960375-09-1	20-35
Amorphous Silica	7631-86-9	65-80
Crystalline Silica / Silica Sand	14808-60-7	<1.0

**SECTION 3 – HAZARDOUS INFORMATION**

<b>Primary Route(s) of Entry:</b>	Inhalation, Skin, Eye, Ingestion			
<b>Inhalation Hazards:</b>	May cause respiratory tract, nose, throat, and lung irritation and inflammation			
<b>Skin Hazards:</b>	May irritate skin causing drying, redness, rash, and blistering. When mixed with water, a high alkali material is produced which can cause severe skin burns. Individuals may develop allergic dermatitis.			
<b>Eye Hazards:</b>	May severely irritate eyes. May develop inflammation of the cornea.			
<b>Ingestion Hazards:</b>	May be caustic to mucus tissue.			
<b>Chronic Exposure:</b>	Individuals may develop allergic dermatitis, inflammation of the cornea, and inflammation of the nose, throat, and lungs. May cause carcinogenic effects.			
<b>Carcinogenic Effects:</b>	May contain crystalline silica, a known Human Carcinogen (Group 1), that can cause silicosis and cancer. Exposure to crystalline silica may also increase the risk of Scleroderma, tuberculosis, and kidney disorders. May contain traces of chemicals on the California Proposition 65 list.			
<b>Threshold Limit Value:</b>	5 mg/m <sup>3</sup> (respirable dust), 10 mg/m <sup>3</sup> (total dust), 30 million particles per cubic foot			
<b>Hazardous Components</b>	<table border="0"> <tr> <td>CAS No.</td> <td>PEL (OSHA)[mg/m<sup>3</sup>]</td> <td>TLV (ACGIH)[mg/m<sup>3</sup>]</td> </tr> </table>	CAS No.	PEL (OSHA)[mg/m <sup>3</sup> ]	TLV (ACGIH)[mg/m <sup>3</sup> ]
CAS No.	PEL (OSHA)[mg/m <sup>3</sup> ]	TLV (ACGIH)[mg/m <sup>3</sup> ]		



Calcium Sulfoaluminate	960375-09-1	15	10
Crystalline Silica (Quartz)	14808-60-7	10/(%SiO <sub>2</sub> +2)	0.05(respirable)
Amorphous Silica	7631-86-9	80/(%SiO <sub>2</sub> )	10

#### SECTION 4 — FIRST AID INFORMATION

<b>Inhalation:</b>	Remove the individual to fresh air. If irritation persists, get medical attention.
<b>Skin:</b>	Flush with water immediately. If irritation persists, get medical attention immediately.
<b>Eye:</b>	Flush eyes with plenty of water. If irritation persists, get medical attention immediately.
<b>Ingestion:</b>	If conscious, drink plenty of water, Do not induce vomiting. Get immediate medical attention.

#### SECTION 5 — PHYSICAL & CHEMICAL PROPERTIES

<b>Boiling Point:</b> >2700°F	<b>Specific Gravity:</b> 2.7 to 3.1	<b>Melting Point:</b> >2700°F
<b>Vapor Pressure (mm Hg):</b> None	<b>Vapor Density (AIR = 1):</b> None	<b>Evaporation Rate:</b> None
<b>Solubility in Water:</b> Slight		

**Appearance and Odor :** Gray / tan color powder. Odor N/A

#### SECTION 6 — FIRE & EXPLOSION PROPERTIES

<b>Flash Point :</b> Non-Combustible	<b>Flammable Limits:</b> N/A	<b>LEL:</b> N/A	<b>UEL:</b> N/A
<b>Extinguishing Media:</b> Water spray carbon dioxide foam dry powder	<b>Special Fire Fighting Procedures:</b> None		

#### SECTION 7 — REACTIVITY INFORMATION

<b>Stability:</b> Stable	<b>Conditions to Avoid:</b> Unintended contact with water
<b>Hazardous Polymerization:</b> Will not occur	

**Hazardous Decomposition or Byproducts:** Silica mixed with hydrofluoric acid may produce a corrosive gas.

**Incompatible Materials:** When mixed with water, may be highly alkali. Incompatible with acids, ammonium and salts. Avoid contact of silica with powerful oxidizing agents and acids.

#### SECTION 8 — ACCIDENTAL RELEASE MEASURES

Use a dust free method to clean up spills. Use the appropriate personal protective equipment.

#### SECTION 9 — HANDLING AND STORAGE

**Waste Disposal Method:** Use appropriate disposal facility complying with local regulations. Not classified as hazardous waste under RCRA of CERCLA. Do not create dust.

**Handling and Storage Precautions:** Use proper personal protective equipment. Do not breath dust. Avoid contact with eyes, skin, and clothing. Avoid unintentional contact with water.

#### SECTION 10 — EXPOSURE CONTROL MEASURES

**Engineering Controls:** Use with adequate ventilation to control airborne dust levels

**Eye Protection:** Safety glasses with side shields or goggles are recommended



**Skin Protection:** Impervious gloves, boots and clothing are recommended to protect the skin from contact

**Respiratory Protection:** In dusty environments, an OSHA, MSHA or NIOSH approved respirator is recommended.

**Hygienic Practices:** After handling, thoroughly wash hands and exposed skin with soap and water.

**Exposure Limits:** PEL: (OSHA Z1) Respirable, 5mg/m<sup>3</sup>; Total Dust, 15 mg/m<sup>3</sup>

## SECTION 11 — TOXICOLOGY INFORMATION

**Toxicity to Animals:** LC50 *Leuciscus idus*: >56 g/l, EC 10 *Pseudomonas putida*: 180 g/l . A high pH material is produced when mixed with water.

**Chronic Effects on Humans:** May contain Silica sand, a known carcinogen. May aggravate eye, skin, and respiratory conditions. May contain chemicals on the Proposition 65 list.

## SECTION 12 — ECOLOGICAL INFORMATION

No Data Available

## SECTION 13 — DISPOSAL CONSIDERATIONS

Not classified as hazardous waste under the Resource Conservation and Recovery Act and the Comprehensive Environmental Response, Compensation, and Recovery Act

## SECTION 14 — TRANSPORTATION INFORMATION

Not determined to be hazardous under the U.S. Department of Transportation. Not Regulated by DOT.

## SECTION 15 — OTHER REGULATORY INFORMATION

**US OSHA 29CFR 1910.1200:** May be considered hazardous and should be included in the employers' hazardous communication program.

**SARA Section 313 Notification:** Not subject to reporting requirements.

**Proposition 65:** This product may contain materials on the Proposition 65 list.

## SECTION 16 — OTHER INFORMATION

### Key/Abbreviations

ACGIH – American Conference of Government Industrial Hygienists

CAS – Chemical Abstract Service.

CERCLA – Comprehensive Environmental Response, Compensation & Liability Act.

DOT – Department of Transportation.

LEL – Lower Exposure Limit.

MSHA – Mine Safety and Health Administration.

N/A – Not Applicable.

NIOSH – National Institute for Occupational Safety and Health.

OSHA – Occupational Safety and Health Administration.

RCRA – Resource Conservation and Recovery Act.

SARA – Superfund Amendments and Reauthorization Act.

UEL – Upper Exposure Limit.

**NOTE:** CTS Cement Manufacturing Corporation makes no representations as to the completeness or accuracy of the information in this document; and, no guarantee or warranty of any kind, express or implied, is made herein. We are not liable for any consequential, incidental, or special damages arising directly or indirectly from the use of this information.