



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Rapid Set BOND

**Other means of identification**

**Product code** 807100000

**Recommended use** Polymer Binder

**Recommended restrictions** None known.

**Manufacturer/Importer/Supplier/Distributor information**

**Company name** CTS Cement Manufacturing Corporation

**Address** 11065 Knott Ave Suite A  
Cypress, CA 90630  
United States

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

**E-mail** [info@ctscement.com](mailto: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 corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 1A
Specific Target Organ Toxicity, Single Exposure	Category 3 respiratory tract irritation
Specific Target Organ Toxicity, Repeated Exposure	Category 2 (Lungs)

**OSHA defined hazards** Chronic target organ effects reported.

### Label elements



**Signal word** Danger

**Hazard statement** Dust particles may cause physical irritation to eyes and respiratory tract. Dust Explosion hazard: Dust may be explosive if mixed with air in critical proportions and in the presence of source of ignition.

**Precautionary statement**

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

**Response** 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 exposed or concerned: Get medical advice/attention.

**Storage** Keep container tightly closed. Store in dry location.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC)** None known.

### 3. Composition/information on ingredients

#### Mixtures

Chemical name	CAS number	%
Non hazardous components	proprietary	> 99
Vinyl acetate	108-05-4	< 0.05

**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 dust from the material is inhaled, remove the affected person immediately to fresh air. Can cause symptoms of bronchitis. 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. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

##### Ingestion

If victim is conscious immediately rinse mouth and drink plenty of water. Call an ambulance and take these instructions. Only induce vomiting at the instructions of a physician. Get medical attention if symptoms occur.

##### Most important symptoms/effects, acute and delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Upper respiratory tract irritation. Coughing. Discomfort in the chest. Shortness of breath. 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.

##### 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

Use water fog and foam.

##### Unsuitable extinguishing media

Do not use water jet or carbon dioxide.

##### Specific hazards arising from the chemical

Typical combustion products are carbon oxides, nitrogen, and hydrocarbons.

##### Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

##### Fire fighting equipment/instructions

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

Avoid sparks or other sources of static electricity. Product contains low level of organic volatiles which may be emitted at elevated temperatures.

#### 6. Accidental release measures

##### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe dust. 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. No sparking tools should be used. Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Mechanical handling of the powder on inadequately grounded equipment must be properly grounded.

### 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).

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Vinyl acetate (CAS 108-05-4)	STEL	15 ppm
	TWA	10 ppm

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Vinyl acetate (CAS 108-05-4)	Ceiling	15 mg/m <sup>3</sup>
		4 ppm

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. 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. Eye wash facilities and emergency shower must be available when handling this product.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear safety glasses or safety goggles unless full face respirator is in use.

#### Skin protection

##### Hand protection

Wear appropriate chemical resistant gloves.

##### Other

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

#### Respiratory protection

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

#### Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

### General hygiene considerations

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

#### Physical state

Solid.

#### Form

Powder.

#### Color

White

### Odor

Slight/Typical.

### Odor threshold

Not available.

### pH

6.5 – 8.5 (10% dispersion)

### Melting point/freezing point

Not applicable.

### Initial boiling point and boiling range

Not applicable.

### Flash point

Not applicable.

<b>Evaporation rate</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Non combustible.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not applicable.
<b>Flammability limit - upper (%)</b>	15.0 g/cm <sup>3</sup>
<b>Vapor pressure</b>	Not applicable.
<b>Vapor density</b>	Not applicable.
<b>Relative density</b>	Not determined
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Disperses completely.
<b>Partition coefficient (n-octanol/water)</b>	Not applicable.
<b>Auto-ignition temperature</b>	> 180°C (356°C)
<b>Decomposition temperature</b>	2462 °F (1350 °C)
<b>Viscosity</b>	Not applicable.
<b>Other information</b>	
<b>Bulk density</b>	4-5 lb/gal (440-640 kg/m <sup>3</sup> )
<b>VOC (Weight %)</b>	< 2%
<b>Explosive properties</b>	Dust Explosion Class: ST 1

## 10. Stability and reactivity

<b>Reactivity</b>	The product is stable at ambient and atmospheric pressure and under normal conditions of use, storage and transport. However, it is sensitive to static electricity.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>Conditions to avoid</b>	Avoid elevated temperatures. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Avoid dust explosion hazard.
<b>Incompatible materials</b>	Not relevant.
<b>Hazardous decomposition products</b>	Decomposes at temperatures greater than 150°C and combustion products are carbon oxides, nitrogen, acetic acid and hydrocarbons.

## 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>	Causes skin irritation.
<b>Eye contact</b>	Causes serious eye damage. Particulates may scratch eye surfaces.
<b>Ingestion</b>	Swallowing may cause gastrointestinal irritation.

<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage could result. Upper respiratory tract irritation. Coughing. Discomfort in the chest. Shortness of breath. Skin irritation.
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### Information on toxicological effects

<b>Acute toxicity</b>	May cause respiratory irritation.
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Components	Species	Test Results
Vinyl acetate (CAS 108-05-4)		
<i>Oral</i>		
LD50	Rat	2920 mg/kg
<b>Skin corrosion/irritation</b>	Causes skin irritation.	
<b>Serious eye damage/eye irritation</b>	Causes eye damage.	
<b>Respiratory or skin sensitization</b>		
<b>Respiratory sensitization</b>	No data available.	

<b>Skin sensitization</b>	No data available.
<b>Germ cell mutagenicity</b>	No data available to indicate product or any components are mutagenic or genotoxic.
<b>Carcinogenicity</b>	No evidence that this product poses a carcinogenic risk under normal conditions of handling and use.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Vinyl acetate (CAS 108-05-4) 2B Possibly carcinogenic to humans.

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

Not listed.

<b>Reproductive toxicity</b>	No data available.
<b>Specific target organ toxicity - single exposure</b>	Eyes, skin, respiratory tract
<b>Specific target organ toxicity - repeated exposure</b>	Eyes, skin, respiratory tract
<b>Aspiration hazard</b>	Due to the physical form of the product it is not an aspiration hazard.
<b>Chronic effects</b>	Repeated or prolonged skin contact may result in mild irritation. Prolonged or frequent breathing of excess dust may cause an adverse respiratory effect.

**12. Ecological information**

<b>Ecotoxicity</b>	The product is predicted to have low toxicity to aquatic organisms.
<b>Persistence and degradability</b>	No data is available on the degradability of this product.
<b>Bioaccumulative potential</b>	The product has low potential for bioaccumulation.

**Partition coefficient n-octanol / water (log Kow)**

Vinyl acetate (CAS 108-05-4) 0.73

<b>Mobility in soil</b>	No data available.
<b>Other adverse effects</b>	Contributes to effluent BOD. Miscible in water and likely to be transported considerable distances if allowed to enter water sources.

**13. Disposal considerations**

<b>Disposal instructions</b>	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.
<b>Local disposal regulations</b>	Dispose in accordance with all applicable regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues / unused products</b>	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).
<b>Contaminated packaging</b>	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**

<b>DOT</b>	Not regulated as dangerous goods.
<b>IATA</b>	Not regulated as dangerous goods.
<b>IMDG</b>	Not regulated as dangerous goods.
<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not applicable.

**15. Regulatory information**

<b>US federal regulations</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
<b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>	Not regulated.

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

Not listed.

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

Vinyl acetate (CAS 108-05-4) LISTED

**Superfund Amendments and Reauthorization Act of 1986**

**(SARA) Hazard categories** Immediate Hazard - Yes  
 Delayed Hazard - Yes  
 Fire Hazard - No  
 Pressure Hazard - No  
 Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**

Chemical name	CAS number	Reportable quantity	Threshold planning quantity	Threshold planning quantity, lower value	Threshold planning quantity, upper value
Vinyl acetate	108-05-4				

**SARA 311/312 Hazardous chemical** Yes

**SARA 313 (TRI reporting)**

Chemical name	CAS number	% by wt.
Vinyl acetate	108-05-4	<=0.5

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

Vinyl acetate (CAS 108-05-4)

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

Vinyl acetate (CAS 108-05-4)

**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**

Vinyl acetate (CAS 108-05-4)

**US. New Jersey Worker and Community Right-to-Know Act**

Vinyl acetate (CAS 108-05-4)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Vinyl acetate (CAS 108-05-4)

**US. Rhode Island RTK**

Vinyl acetate (CAS 108-05-4)

**US. California Proposition 65****US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance**

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

**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** 24-October-2014

**Revision date** -

**Version #** 01

**HMIS® ratings** Health: 1  
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.