



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Rapid Set FLOW Control

**Other means of identification**  
**Product code** 802010010, 802040035, 802100000

**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** 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** Contains material which can cause cancer. Can form explosive dust air mixtures. Avoid creating dust. May cause sensitization by skin contact. May cause respiratory irritation. 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. Do not breathe dust. 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 inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

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

**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	%
Proprietary Compound		99-99.9
Methanal	50-00-0	< 0.1

#### 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. 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

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. 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. 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.

#### 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

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

#### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

#### Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

#### 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

No unusual fire or explosion hazards noted.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid inhalation of dust. 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. Dust can form an explosive mixture with air.

### 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 dust. 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
Particulate	PEL (8 hr TWA)	50 million particles/cf	Particulate

#### US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
Methanal (CAS 50-00-00)	TWA	0.75 mg/m <sup>3</sup>	Total dust.
		0.5 mg/m <sup>3</sup>	Respirable.
		2.0 mppcf	Respirable.

#### US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Methanal (CAS 50-00-00)	CLV	0.3 mg/m <sup>3</sup>	Respirable fraction.

### Biological limit values

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

### Exposure guidelines

Occupational exposure to nuisance dust (total and respirable) should be monitored and controlled.

**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**

Characteristic

**Odor threshold**

Not available.

**pH**

9 – 11.4 when wet

**Melting point/freezing point**

Not applicable.

**Initial boiling point and boiling range**

Not applicable.

**Flash point**

Not applicable.

**Evaporation rate**

Not applicable.

**Flammability (solid, gas)**

Non combustible.

**Upper/lower flammability or explosive limits****Flammability limit - lower (%)**

Not applicable

**Flammability limit – upper (%)**

Not applicable

**Vapor pressure**

Not applicable.

**Vapor density**

Not applicable.

**Relative density**

1.84 @ 20°C

**Solubility(ies)****Solubility (water)**

soluble at 20°C

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

-4

**Auto-ignition temperature**

Not applicable.

**Decomposition temperature**

2460 °F (1350 °C)

**Viscosity**

Not applicable.

**Other information****Bulk density**

500-800 kg/m<sup>3</sup>

<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.
<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 temperatures exceeding the decomposition temperature. Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
<b>Incompatible materials</b>	Powerful oxidizers, acids, bases.
<b>Hazardous decomposition products</b>	Possible separation of methanal in small quantities. The substances/substance groups mentioned are formed by hydrolysis

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	May cause damage to organs through prolonged or repeated exposure by inhalation. 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 eye irritation
<b>Ingestion</b>	Swallowing may cause gastrointestinal irritation.

<b>Symptoms related to the physical, chemical and toxicological characteristics</b>	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.
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### Information on toxicological effects

<b>Acute toxicity</b>	May cause respiratory irritation.
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Components	Species	Test Results
Skin		
Methanal	Rabbit	Non-irritant OECD Guideline 404
Eye		
Methanal	Rabbit	Non-irritant OECD Guideline 405

<b>Skin corrosion/irritation</b>	May cause skin irritation.
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<b>Serious eye damage/eye irritation</b>	May cause eye damage.
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### Respiratory or skin sensitization

<b>Respiratory sensitization</b>	OSHA has classified this substance as a respiratory sensitizer.
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<b>Skin sensitization</b>	Caused skin sensitization in animal studies. Caused sensitization in humans
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<b>Germ cell mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
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<b>Carcinogenicity</b>	Contains material which can cause cancer. Occupational exposure to respirable dust should be monitored and controlled.
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### IARC Monographs. Overall Evaluation of Carcinogenicity

### NTP Report on Carcinogens

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

Not listed.

<b>Reproductive toxicity</b>	The results of animal studies gave no indication of a fertility impairing effect.
<b>Specific target organ toxicity - single exposure</b>	May cause respiratory irritation.
<b>Specific target organ toxicity - repeated exposure</b>	May cause damage to organs (Lungs) through prolonged or repeated exposure.
<b>Aspiration hazard</b>	Due to the physical form of the product it is not an aspiration hazard.
<b>Chronic effects</b>	Prolonged or repeated exposure may cause lung injury. May cause skin disorders if contact is repeated or prolonged.

## 12. Ecological information

### Ecotoxicity

#### Fish

Acute: DIN 38412 Part 15 static – *Leuciscus idus*/LC 50 (48 h): > 560 mg/l

#### Aquatic invertebrates

Acute: OECD Guideline 202, part 1 static; *Daphnia magna*/EC50 (48 h): > 100 mg/l

Analogous: Assessment derived from products with similar chemical character. Nominal concentration. The product has low solubility in the tests medium. An eluate has been tested. Limit concentration test only. No toxic effects occur within the range of solubility.

**Persistence and degradability** Evaluation: Not readily biodegradable (by OECD criteria)

**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)**

Not 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	% by wt.
Methanal	50-00-0	<=0.02

**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.
Methanal	50-00-0	<0.02

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

Chemical name	CAS number	% by wt.
Methanal	50-00-0	<0.02

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

Chemical name	CAS number	% by wt.
Methanal	50-00-0	<0.02

**US. Rhode Island RTK**

Chemical name	CAS number	% by wt.
Methanal	50-00-0	<0.02

**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**

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)*</b>
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** 10-March-2015

**Revision date** -

**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.