# **SAFETY DATA SHEET**



#### 1. Identification

Product identifier Rapid Set SET Control

Other means of identification

**Product code** 801010010, 801040035, 801040050, 801100000

Recommended use Industrial use.
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 1-800-929-3030

Telephone 1-800-929-3030
E-mail info@ctscement.com
Contact person Safety Officer

Contact person Safety Officer
Emergency telephone 1-800-929-3030 (8 AM - 5 PM)

number

# 2. Hazard(s) identification

Physical hazards Not classified.

Health Hazards Acute toxicity, dermal

Skin irritation Category 5

Eva irritation Category 3

OSHA defined hazards

Eye irritation

Category 3

Category 2A

Label elements



Signal word Warning

Hazard statement Causes mild skin irritation. May be harmful in contact with skin. Causes serious eye irritation.

**Precautionary statement** 

Prevention 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. If on skin: Wash with plenty of water. If skin irritation occurs: Get

medical advice/attention. Take off contaminated clothing and wash before reuse.

**Storage** Store in dry location. Store away from incompatible materials.

**Disposal** Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise

classified (HNOC)

None known.

Rapid Set SET Control SDS US

922500 Version #: 02 Revision date: - Issue date: 08-October-2014

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	CAS number	%
Weak food grade acid	77-92-9	90-100

**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 Move to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give

artificial respiration. Call a physician if symptoms develop or persist.

Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash Skin contact

contaminated clothing before reuse.

Do not rub eyes. Immediately flush eyes with plenty of water for at least 15 minutes. Remove Eye contact

contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

Do Not induce vomiting. Do not give anything by mouth to an unconscious person. Immediately Ingestion

rinse mouth and drink plenty of water. 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. 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

Unsuitable extinguishing

media

Use water spray, alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Specific hazards arising from

the chemical

Fire fighting

Emits toxic fumes carbon oxides during fire.

Special protective equipment

and precautions for firefighters

Move containers from fire area if you can do so without risk.

equipment/instructions

Specific methods

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

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

General fire hazards No unusual fire or explosion hazards noted.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Arrange disposal without generating dust. Sweep up and shovel. Clean surfaces with water to remove contaminants. 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, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Avoid breathing dust, Avoid contact with eyes, skin, and clothing. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

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).

Rapid Set SET Control SDS US

# 8. Exposure controls/personal protection

#### Occupational exposure limits

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

Components	Туре	Value	Form
Particulate	PEL (8 hr TWA)	50 million particles/cf	Particulate

**Biological limit values** 

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

Appropriate engineering

controls

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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Wear chemical safety glasses or safety goggles with side shields unless full face respirator is in use. Eye/face protection

Skin protection

Hand protection Wear appropriate chemical resistant gloves, nitrile or rubber gloves.

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. Other Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels Respiratory protection

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.

### 9. Physical and chemical properties

**Appearance** 

Solid. Physical state Powder. **Form** Tan. Color Odorless. Odor Not available. **Odor threshold** 

Hq 1.8 at ca. 50 g/l at 25°C (77°F)

Melting point/freezing point 153°C (307°F)

Initial boiling point and boiling

range

173°C

Flash point 100°C (212°F) Not applicable. **Evaporation rate** 

Flammable solid when heated above flash point. Flammability (solid, gas)

Upper/lower flammability or explosive limits Flammability limit - lower

(%)

LEL: 0.28%.

Flammability limit - upper

UEL: 2.29%.

(%)

Not applicable. Vapor pressure Vapor density Not applicable.

Rapid Set SET Control SDS US Relative density 1.67 @ 20°C

Solubility(ies)

**Solubility (water)** Soluble in water; 383 g/l at 25°C (77°F).

Partition coefficient (n-octanol/water)

-1.64 at 20°C (68°F).

Auto-ignition temperature
Decomposition temperature

Not applicable. 1010 °F (1850 °C)

Viscosity

Not applicable.

Other information

Bulk densityNot applicable.Partition coefficientNot applicable.

(oil/water)

0 g/l when mixed with water

10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

VOC (Weight %)

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Excess heat. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed

air).

Incompatible materials

Hazardous decomposition

products

Strong oxidizing agents, bases, reducing agents, nitrates. Carbon oxides.

# 11. Toxicological information

Information on likely routes of exposure

InhalationInhalation of dusts may cause respiratory irritation. Prolonged inhalation may be harmful.Skin contactCauses skin irritation. Prolonged contact with wet cement/mixture may cause burns.

Eye contact Causes serious eye damage. Prolonged contact with wet cement/mixture may cause burns.

Ingestion Swallowing may cause gastrointestinal irritation.

Symptoms related to the physical, chemical and

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Upper respiratory tract irritation.

toxicological characteristics Coughing. Discomfort in the chest. Shortness of breath. Skin irritation.

Information on toxicological effects

**Acute toxicity** May cause respiratory irritation.

Components Species Test Results

Citric Acid (CAS 77-92-9)

Skin	LD 50 Dermal – Rat -> 2000 mg/kg	
Eyes	Eyes- rabbit – irritating to eyes OECD Test 405	
Respiratory	spiratory Not Available	
Ingestion	LD50 Oral – rat - 5400 mg/kg	

**Skin corrosion/irritation** Causes skin irritation, itching, swelling, redness, and pain.

Serious eye damage/eye

irritation

Causes serious eye irritation, itching, redness, pain.

Respiratory or skin sensitization

Respiratory sensitization Irritation.

**Skin sensitization** No data available.

Rapid Set SET Control SDS US

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

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

No components of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

Reproductive toxicity

No data available.

No data available.

single exposure

- ...

Specific target organ toxicity -

No data available.

Specific target organ toxicity -

repeated exposure

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

## 12. Ecological information

**Ecotoxicity** 

Aquatic Vertebrate	Mortality LC50 – Leuciscus idus melanotus – 440 mg/l – 48 hours
Aquatic Invertebrate	Static test – Daphnia magna (water flea) – 1535 mg/l – 24 hours
Terrestrial	Not Available

Persistence and degradability

No data is available on the degradability of this product.

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

# 15. Regulatory information Not applicable.

**US** federal regulations

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.

Rapid Set SET Control SDS US

Superfund Amendments and Reauthorization Act of 1986

Immediate Hazard - Yes (SARA) Hazard categories

> Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical Citric Acid

SARA 313 (TRI reporting)

Not listed.

### 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

#### **US. Massachusetts RTK - Substance List**

Not regulated.

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

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

Not regulated.

**US. Rhode Island RTK** 

Not regulated.

# **US. California Proposition 65**

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

Not listed.

#### International Inventories

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

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

08-October-2014 Issue date

**Revision date** Version # 01

Health: 2 **HMIS®** ratings Flammability: 1

Physical hazard: 0

CTS Cement Manufacturing Corporation cannot anticipate all conditions under which this Disclaimer

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.

Rapid Set SET Control SDS US

<sup>\*</sup>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).