



## Safety Data Sheet

According to OSHA Communication Standard, 29 CFR 1910.1200

### Set Control

#### SECTION 1: Identification

##### Product identifier

**Product name:** Set Control

**Product code:** 801010010, 801040035, 801040050, 80110000

##### Recommended use of the product and restriction on use

**Relevant identified uses:** Use as retarder additive for cement based products.

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

##### Manufacturer or supplier details

###### Manufacturer:

###### United States

CTS Cement Manufacturing Corporation

12442 Knott St.

Garden Grove, CA 92841

800-929-3030

info@ctscement.com

##### Emergency telephone number:

###### United States

INFOTRAC 1-800-535-5053

###### International

INFOTRAC 1-352-323-3500

#### SECTION 2: Hazard(s) identification

##### GHS classification:

Serious eye damage/eye irritation, category 2A

##### Label elements

###### Hazard

###### Pictograms:



**Signal word:** Warning

##### Hazard statements:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

##### Precautionary statements:

P261 Avoid breathing dust.

**Safety Data Sheet**

According to OSHA Communication Standard, 29 CFR 1910.1200

**Set Control**

- P271 Use only outdoors or in a well-ventilated area.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P337+P313 If eye irritation persists: Get medical advice/attention.  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P314 Get medical advice/attention if you feel unwell.  
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P302+P361+P353: If on skin: Remove immediately all contaminated clothing. Rinse skin with water.  
 P362 Take off contaminated clothing and wash before reuse.  
 P301+P330+P331: If swallowed: Rinse mouth. DO NOT induce vomiting.  
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
 P405 Store locked up.  
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazards not otherwise classified:** None.**SECTION 3: Composition/information on ingredients**

Identification	Name	Weight %
CAS number: 77-92-9	Citric acid	80-100

**Additional Information:**

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200).

**SECTION 4: First aid measures****Description of first aid measures****General notes:**

Not determined or not applicable.

**After inhalation:**

Move to fresh air. Oxygen or artificial respiration if needed. Call a physician if symptoms develop or persist.

**After skin contact:**

Wash off with soap and water. Get medical attention if irritation develops and persists.

**After 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 if irritation develops and persists. If eye irritation persists: Get medical advice/attention.



## Safety Data Sheet

According to OSHA Communication Standard, 29 CFR 1910.1200

### Set Control

Rinse mouth. Get medical attention if symptoms occur.

#### After swallowing:

Rinse mouth thoroughly. Seek medical attention if irritation, discomfort, or vomiting persists.

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

##### Acute and delayed symptoms and effects:

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Dusts may irritate the respiratory tract, skin and eyes.

#### Immediate medical attention and special

##### treatment Specific treatment:

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

##### Notes for the doctor:

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### SECTION 5: Firefighting measures

#### Extinguishing media

##### Suitable extinguishing media:

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>). Apply extinguishing media carefully to avoid creating airborne dust. Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

##### Unsuitable extinguishing media:

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

#### Specific hazards during fire-fighting:

Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations and in the presence of an ignition source is a potential dust explosion hazard. During fire, gases hazardous to health may be formed. Combustion products may include: carbon oxides. During fire, gases hazardous to health may be formed such as: Carbon oxides.

#### Special protective equipment for firefighters:

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

#### Special precautions:

Use standard firefighting procedures and consider the hazards of other involved materials. May form combustible dust concentrations in air.

### SECTION 6: Accidental release measures

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

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Use only non-sparking tools. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. 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.

#### Environmental precautions:

Should not be released into the environment. Prevent from reaching drains, sewer or waterway.

**Safety Data Sheet**

According to OSHA Communication Standard, 29 CFR 1910.1200

**Set Control****Methods and material for containment and cleaning up:**

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Collect dust using a vacuum cleaner equipped with HEPA filter. This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Minimize dust generation and accumulation. Absorb in vermiculite, dry sand or earth and place into containers. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

**Reference to other sections:**

For waste disposal, see section 13 of the SDS.

**SECTION 7: Handling and storage****Precautions for safe handling:**

Minimize dust generation and accumulation. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Explosion-proof general and local exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid breathing dust. Avoid contact with skin and eyes. Avoid prolonged exposure. Wash thoroughly after handling. Wear appropriate personal protective equipment. Handle and open container with care. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities:**

Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep away from heat, sparks and open flame.

**SECTION 8: Exposure controls/personal protection**

Only those substances with limit values have been included below.

**Occupational Exposure limit values:**

Country (Legal Basis)	Substance	Form	Permissible concentration
United States (OSHA)	Citric Acid	Respirable	TWA 5 mg/m <sup>3</sup>
		Total dust	TWA 15 mg/m <sup>3</sup>
		Total dust	TWA 50 mppcf
		Respirable	TWA 15 mppcf
ACGIH	Citric Acid	Respirable	TWA 3 mg/m <sup>3</sup>
		Inhalable	TWA 10 mg/m <sup>3</sup>

**Safety Data Sheet**

According to OSHA Communication Standard, 29 CFR 1910.1200

**Set Control**

		particles	
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**Biological limit values:**

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

**Information on monitoring procedures:**

Monitoring of the concentration of substances in the breathing zone of workers or in the general workplace may be required to confirm compliance with an OEL and adequacy of exposure controls.

Biological monitoring may also be appropriate for some substances.

**Appropriate engineering controls:**

Explosion-proof general and local exhaust ventilation. Good general ventilation 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. Provide eyewash station. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. Eye wash facilities and emergency shower must be available when handling this product.

**Personal protection equipment****Eye and face protection:**

Safety goggles or glasses, or appropriate eye protection.

**Skin and body protection:**

Select glove material impermeable and resistant to the substance. Wear appropriate clothing to prevent any possibility of skin contact. Nitrile, butyl rubber or neoprene gloves are recommended.

**Respiratory protection:**

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

**General hygienic measures:**

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.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties**

<b>Appearance</b>	Solid; white granulates
<b>Odor</b>	Not available
<b>Odor threshold</b>	Not available
<b>pH</b>	2.2
<b>Melting point/freezing point</b>	307.4°F (153°C)
<b>Initial boiling point/range</b>	Not applicable
<b>Flash point (closed cup)</b>	Not available

**Safety Data Sheet**

According to OSHA Communication Standard, 29 CFR 1910.1200

**Set Control**

Evaporation rate	Not applicable
Flammability (solid, gas)	Combustible dust
Upper flammability/explosive limit	Not available
Lower flammability/explosive limit	Not available
Vapor pressure	Not applicable
Vapor density	Not applicable
Density	Not available
Relative density	2.96 – 2.98 at 20°C
Solubilities	Soluble
Partition coefficient (n-octanol/water)	Not available
Auto/Self-ignition temperature	1851.8°F (1011°C)
Decomposition temperature	Not available
Dynamic viscosity	Not applicable
Kinematic viscosity	Not applicable
Explosive properties	Not available
Oxidizing properties	Not available

**Other information**

VOC (Weight %)	0 g/l when mixed with water
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**SECTION 10: Stability and reactivity****Reactivity:**

Does not react under normal conditions of use and storage.

**Chemical stability:**

Stable under normal conditions of use and storage.

**Possibility of hazardous reactions:**

None under normal conditions of use and storage.

**Conditions to avoid:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Contact with incompatible materials. Minimize dust generation and accumulation. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

**Incompatible materials:**

Strong oxidizing agents.

**Hazardous decomposition products:**

None known.

**SECTION 11: Toxicological information****Information on toxicological effects:****Acute toxicity****Assessment:** Based on available data, the classification criteria are not met.

**Safety Data Sheet**

According to OSHA Communication Standard, 29 CFR 1910.1200

**Set Control****Product data:** No data is available.**Substance data:**

Name	Route	Result
Citric Acid (77-92-9)	Dermal	LD50 Rat: >2000 mg/kg, 24 hours
	Oral	LD50 Mouse: 5400 mg/kg

**Skin corrosion/irritation****Assessment:** Causes skin irritation.**Product data:** No data is available.**Substance data:**

Name	Result
Citric Acid	Dust may irritate skin.

**Serious eye damage/irritation****Assessment:** Causes serious eye damage.**Product data:** No data is available.**Substance data:**

Name	Result
Citric Acid	Causes serious eye damage.

**Respiratory or skin sensitization****Assessment:** Based on available data, the classification criteria are not met.**Product data:** No data is available.**Substance data:** No data is available.**Carcinogenicity****Assessment:** May cause cancer.**Product data:** No data is available.**Substance data:** No data is available.**International Agency for Research on Cancer (IARC):** Not listed.**National Toxicology Program (NTP):** Not listed.**Germ cell mutagenicity****Assessment:** Based on available data, the classification criteria are not met.**Product data:** No data is available.**Substance data:** No data is available.**Reproductive toxicity****Assessment:** Based on available data, the classification criteria are not met.**Product data:** No data is available.**Substance data:** No data is available.**Specific target organ toxicity (single exposure)**



### Safety Data Sheet

According to OSHA Communication Standard, 29 CFR 1910.1200

#### Set Control

**Assessment:** May cause respiratory irritation

**Product data:** No data is available.

**Substance data:** No data is available.

#### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data is available.

**Substance data:** No data is available.

#### Information on likely routes of exposure:

No data is available.

#### Symptoms related to the physical, chemical and toxicological characteristics:

No data is available.

#### Other information:

Prolonged inhalation may be harmful.

#### SECTION 12: Ecological information

##### Acute (short-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

##### Chronic (long-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

##### Persistence and degradability

**Product data:** No data available.

**Substance data:** No data available.

##### Bioaccumulative potential

**Product data:** No data available.

**Substance data:** No data available.

##### Mobility in soil

**Product data:** No data available.

**Substance data:** No data available.

**Other adverse effects:** No data available.

#### SECTION 13: Disposal considerations

##### Disposal methods:

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory

#### SECTION 14: Transport information



**Safety Data Sheet**

According to OSHA Communication Standard, 29 CFR 1910.1200

**Set Control**

entities.

**United States Transportation of dangerous goods (49 CFR DOT)**

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

**International Maritime Dangerous Goods (IMDG)**

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

**International Air Transport Association Dangerous Goods Regulations (IATA-DGR)**

UN number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

**SECTION 15: Regulatory information**

**United States regulations Inventory listing (TSCA):** All components are on the U.S. EPA TSCA Inventory List.

**Significant New Use Rule (TSCA Section 5):** None of the ingredients are listed.

**Export notification under TSCA Section 12(b):** None of the ingredients are listed.

**SARA Section 302 extremely hazardous substances:** None of the ingredients are listed.

**SARA Section 311/312 hazardous:** Yes

Classified hazard	Combustible dust
Categories	Serious eye damage or eye irritation

**SARA Section 313 substances:** None of the ingredients are listed



## Safety Data Sheet

According to OSHA Communication Standard, 29 CFR 1910.1200

### Set Control

**CERCLA:** None of the ingredients are listed.

**RCRA:** None of the ingredients are listed.

**Section 112(r) of the Clean Air Act (CAA):** None of the ingredients are listed.

**Massachusetts Right to Know:** Not listed.

**New Jersey Right to Know:** Not listed.

**New York Right to Know:** Not listed.

**Pennsylvania Right to Know:** Not listed.

**California Proposition 65:** Not listed/Not Regulated.

### SECTION 16: Other information

#### Abbreviations and Acronyms:

ACGIH: American Conference of Governmental Industrial Hygienists  
ADR: European Road Transport  
AU: Australia  
CA: Canada  
CAS: Chemical Abstracts Service  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act  
CN: China  
CPR: Controlled Products Regulations  
DFG: Deutsche Forschungsgemeinschaft  
DOT: Department of Transportation  
DSL: Domestic Substances List  
EEC: European Economic Community  
ECHA: European Chemicals Agency  
EINECS: European Inventory of Existing Commercial Chemical Substances  
EPA: Environmental Protection Agency  
EU: European Association  
IARC: International Agency for Research on Cancer  
IMDG: International maritime dangerous goods code  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
JP: Japan  
COD: Chemical Oxygen Demand  
BOD5: 5-day biochemical oxygen demand  
BCF: Bioconcentration factor  
LD50: Lethal Dose 50  
CL50: Lethal Concentration 50  
EC50: Effective concentration 50  
Log-POW: Octanol-water partition coefficient  
Koc: Partition coefficient of organic carbon  
Kow: Octanol/water partition coefficient  
KR: Korea  
LEL: Lower Explosive Limit  
UEL: Upper Explosive Limit  
NIOSH: National Institute for Occupational Safety and Health Administration

**Safety Data Sheet**

According to OSHA Communication Standard, 29 CFR 1910.1200

**Set Control**

PH: Philippines  
RCRA: Resource Conservation and Recovery Act  
OSHA: Occupational Safety and Health Administration  
RID: European Rail Transport  
SARA: Superfund Amendments and Reauthorization Act  
STEL: Short Term Exposure Limit  
TDG: Transportation of Dangerous Goods  
TSCA: Toxic Substances Control Act  
TWA: Time Weighted Average  
US: United States

**Disclaimer:**

This product has been classified in accordance with OSHA HCS 2012 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

**NFPA:** 2-2-0**HMIS:** 2\*-2-0**Initial preparation date:** 11/01/18**Version #:** 3**Revision Date:** 04/18/22**End of Safety Data Sheet**