



## Safety Data Sheet

According to OSHA Communication Standard, 29 CFR 1910.1200

### Rapid Set Flexible Construction Adhesive and Sealant

#### SECTION 1: Identification

##### Product identifier

**Product name:** Flexible Construction Adhesive and Sealant

**Product code:** 196231010, 1966231028, 196230020, 196231020, 196233020

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

**Relevant identified uses:** Use for sealant and adhesive applications

**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@ctsceement.com

##### Emergency telephone number:

United States

INFOTRAC 1-800-535-5053

International

INFOTRAC 1-352-323-3500

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

##### GHS classification:

Acute toxicity, category 4

Serious eye damage/eye irritation, category 2A

Carcinogenicity, category 1A

Reproductive toxicity, category 1B

Specific target organ toxicity - single exposure, category 1, central nervous system

Specific target organ toxicity - repeated exposure, category 1, respiratory system

Specific target organ toxicity - repeated exposure, category 2, bladder

##### Label elements

##### Hazard Pictograms:



**Signal word:** Danger

##### Hazard statements:

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H350 May cause cancer.

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H360 May damage fertility or the unborn child.

H370 Causes damage to organs.

H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear eye protection/face protection.

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P307+ P311 If exposed: Call a POISON CENTER or doctor/physician.

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.

P301+P330 IF SWALLOWED: Rinse mouth.

P314 Get medical advice/attention if you feel unwell.

P301+P312+P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P321 Specific treatment (see product Safety Data Sheet).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazards not otherwise classified:**

Oral 71.91% of the mixture consists of ingredients of unknown acute toxicity.

**SECTION 3: Composition/information on ingredients**

Identification	Name	Weight %
CAS number: 1317-65-3	Calcium carbonate	10-25
CAS number: 471-34-1	Carbonic acid, calcium salt (1:1)	15-40
CAS number: 13463-67-7	Titanium dioxide	1-5
CAS number: 2768-02-7	Silane, trimethoxyvinyl	1-5
CAS number: 818-08-6	Dibutyltin oxide	0.1-1
CAS number: 28553-12-0	Diisononyl phtahalate	15-35
CAS number: 1333-86-4	Carbon black	0.01-1



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#### 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:

IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

##### After skin contact:

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

##### After eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

##### After swallowing:

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

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

##### Acute symptoms and effects:

Harmful if swallowed. Causes serious eye irritation.

##### Delayed symptoms and effects:

May cause cancer. May damage fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure.

#### Immediate medical attention and special treatment

##### Specific treatment:

Not determined or not applicable.

##### Notes for the doctor:

Not determined or not applicable.

### SECTION 5: Firefighting measures

#### Extinguishing media

##### Suitable extinguishing media:

Use carbon dioxide, regular dry chemical, regular foam or water.

##### Unsuitable extinguishing media:

Do not use high-pressure water streams.

##### Specific hazards during fire-fighting:

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

##### Special protective equipment for firefighters:

Heating may cause an explosion. Containers may rupture or explode. Keep away from sources of ignition. No smoking. Move material from fire area if it can be done without risk. Avoid inhalation of vapors or combustion by-products. Dike for later disposal. Stay upwind and keep out of low areas. A positive

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pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

**Special precautions:**

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

**SECTION 6: Accidental release measures****Personal precautions, protective equipment and emergency procedures:**

Wear personal protective clothing and equipment, see Section 8.

**Environmental precautions:**

Do not flush into sanitary sewer systems, drains or surface water. Avoid release to the environment.

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

Keep unnecessary people away, isolate hazard area, and deny entry. In case of spillage, stop the flow of material and block any potential routes to water systems. Only personnel trained for the hazards of this material should perform clean up and disposal.

**Reference to other sections:**

Not determined or not applicable.

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

Do not handle until all safety precautions have been read and understood. Keep away from all ignition sources. Avoid contact with eyes and skin. Do not eat, drink or smoke when using this product. Always wear recommended personal protective equipment. Wear personal protective clothing and equipment, see Section 8. Take precautionary measures against static discharge.

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

Store locked up. Store in a cool dry place. Store in a well-ventilated area. Keep separated from incompatible substances. Keep container tightly closed. Empty containers may contain product residue. Store and handle in accordance with all current regulations and standards. Avoid contact with temperatures above 120 C. Incompatible materials include strong oxidizers and acids.

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

Only those substances with limit values have been included below.

**Occupational Exposure limit values:**

Calcium carbonate	1317-65-3
NIOSH:	10 mg/m <sup>3</sup> TWA total dust ; 5 mg/m <sup>3</sup> TWA respirable dust
OSHA (US):	15 mg/m <sup>3</sup> TWA total dust ; 5 mg/m <sup>3</sup> TWA respirable fraction
Mexico:	10 mg/m <sup>3</sup> TWA VLE-PPT
	20 mg/m <sup>3</sup> STEL [PPT-CT ]
Carbonic acid, calcium salt (1:1)	471-34-1

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<b>NIOSH:</b>	10 mg/m <sup>3</sup> TWA total dust ; 5 mg/m <sup>3</sup> TWA respirable dust
<b>Titanium dioxide</b>	13463-67-7
<b>ACGIH:</b>	10 mg/m <sup>3</sup> TWA
<b>NIOSH:</b>	2.4 mg/m <sup>3</sup> TWA (CIB 63 ) fine ; 0.3 mg/m <sup>3</sup> TWA (CIB 63 ) ultrafine, including engineered nanoscale
	5000 mg/m <sup>3</sup> IDLH
<b>OSHA (US):</b>	15 mg/m <sup>3</sup> TWA total dust
<b>Mexico:</b>	10 mg/m <sup>3</sup> TWA VLE-PPT as Ti
	20 mg/m <sup>3</sup> STEL [PPT-CT ] as Ti
<b>Carbon black</b>	1333-86-4
<b>ACGIH:</b>	3 mg/m <sup>3</sup> TWA inhalable particulate matter
<b>NIOSH:</b>	3.5 mg/m <sup>3</sup> TWA ; 0.1 mg/m <sup>3</sup> TWA (Carbon black in presence of Polycyclic aromatic hydrocarbons ) as PAH
	1750 mg/m <sup>3</sup> IDLH
<b>OSHA (US):</b>	3.5 mg/m <sup>3</sup> TWA
<b>Mexico:</b>	3.5 mg/m <sup>3</sup> TWA VLE-PPT
	7 mg/m <sup>3</sup> STEL [PPT-CT ]

**ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)**

There are no biological limit values for any of this product's components.

**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:**

Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust or process enclosure ventilation system.

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

Wear splash-resistant safety goggles with a faceshield.

**Skin and body protection:**

Wear appropriate chemical resistant gloves. Wear appropriate chemical resistant clothing.

**Respiratory protection:**

Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4.

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**Rapid Set Flexible Construction Adhesive and Sealant****General hygienic measures:**

Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of work. Wash contaminated clothing before reuse.

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

Appearance	Paste; Product comes in gray, light gray, sandstone, white, black
Odor	Mild
Odor threshold	Not available
pH	Not available
Melting point/freezing point	Not available
Initial boiling point/range	Not applicable
Flash point (closed cup)	Not available
Evaporation rate	Not applicable
Flammability (solid, gas)	Not available
Upper flammability/explosive limit	Not available
Lower flammability/explosive limit	Not available
Vapor pressure	Not applicable
Vapor density	Not applicable
Density	Not available
Specific Gravity	1.3 - 1.7
Solubilities	Slightly soluble
Partition coefficient (n-octanol/water)	Not available
Auto/Self-ignition temperature	Not available
Decomposition temperature	Not available
Dynamic viscosity	Not applicable
Kinematic viscosity	Not applicable
Explosive properties	Not available
Oxidizing properties	Not available

**Other information**

VOC (Weight %)	8 g/l when mixed with water (<3% CARB)
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**SECTION 10: Stability and reactivity****Reactivity:**

Does not react under normal conditions of use and storage.

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**Rapid Set Flexible Construction Adhesive and Sealant****Chemical stability:**

Stable at normal temperatures and pressure.

**Possibility of hazardous reactions:**

Will not polymerize.

**Conditions to avoid:**

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials. Avoid contact with temperatures above 120 C.

**Incompatible materials:**

Strong acids. Strong oxidizer.

**Hazardous decomposition products:**

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

**SECTION 11: Toxicological information****Information on toxicological effects:****Inhalation**

May be harmful if inhaled.

**Skin Contact**

May cause skin irritation.

**Eye Contact**

Causes serious eye irritation.

**Ingestion**

Harmful if swallowed.

**Acute and Chronic Toxicity****Assessment:** Based on available data, the classification criteria are not met.**Product data:** No data is available.**Substance data:**

Name	Route	Species	Result
Carbonic acid, calcium salt (1:1) (471-34-1)	Oral	Rat	LD50: 6450 mg/kg
Titanium dioxide (13463-67-7)	Oral	Rat	LD50: >10000 mg/kg
Organosilane (2768-02-7)	Oral	Rat	LD50: 7340 mg/kg
Dibutyltin oxide (818-08-6)	Oral	Rat	LD50: 44.9 mg/kg
Diisononyl phthalate (28553-12-0)	Inhalation	Rat	LD50: >9750 mg/kg LC50: >4.4 mg/l (4 h)
Carbon black (1333-86-4)	Oral	Rat	LD50: >15400 mg/kg
Product	Oral	Rat	LD50: 1261.241 mg/kg

**Immediate Effects**

Harmful if swallowed. Causes serious eye irritation.

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**Rapid Set Flexible Construction Adhesive and Sealant****Delayed Effects**

May cause cancer. May damage fertility or the unborn child. Causes damage to organs. Causes damage to organs through prolonged or repeated exposure.

**Irritation/Corrosivity Data**

Causes serious eye irritation.

**Respiratory Sensitization**

No information on significant adverse effects.

**Dermal Sensitization**

No information on significant adverse effects.

Titanium dioxide	13463-67-7
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 93 [2010] ; Monograph 47 [1989] (Group 2B (possibly carcinogenic to humans))
DFG:	Category 3A (could be carcinogenic for man; inhalable fraction with the exception of ultra small particles )
OSHA:	Present
NIOSH:	Potential occupational carcinogen
Carbon black	1333-86-4
ACGIH:	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
IARC:	Monograph 93 [2010] ; Monograph 65 [1996] (Group 2B (possibly carcinogenic to humans))
DFG:	Category 3B (could be carcinogenic for man; inhalable fraction )
OSHA:	Present
NIOSH:	Potential occupational carcinogen

Results of a DuPont epidemiology study showed that employees who had been exposed to titanium dioxide pigments were at no greater risk of developing lung cancer than were employees who had not been exposed to titanium dioxide pigments. No pulmonary fibrosis was found in any of the employees and no associations were observed between titanium dioxide pigment exposure and chronic respiratory disease or lung abnormalities. Based on the results of this study, DuPont concluded that titanium dioxide pigment will not cause lung cancer or chronic respiratory disease in humans at concentrations experienced in the workplace.

**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:** May damage fertility or the unborn child.

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

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

**Specific target organ toxicity (single exposure)**

**Assessment:** Central nervous system.

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**Rapid Set Flexible Construction Adhesive and Sealant****Product data:** No data is available.**Substance data:** No data is available.**Specific target organ toxicity (repeated exposure)****Assessment:** Respiratory system. Bladder.**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.**SECTION 12: Ecological information****Acute (short-term) Ecotoxicity****Assessment:** May cause long lasting harmful effects on aquatic life.

<b>Diisononyl phthalate</b>	28553-12-0
<b>Fish:</b>	LC50 96 h Brachydanio rerio >100 mg/L [semi-static ]; LC50 96 h Lepomis macrochirus >0.14 mg/L [flow-through ]; LC50 96 h Lepomis macrochirus >0.17 mg/L [static ]; LC50 96 h Pimephales promelas >0.19 mg/L [flow-through ]; LC50 96 h Pimephales promelas >0.14 mg/L [static ]
<b>Algae:</b>	EC50 72 h Desmodesmus subspicatus >500 mg/L IUCLID ; EC50 96 h Pseudokirchneriella subcapitata >1.8 mg/L [static ] EPA
<b>Invertebrate:</b>	EC50 48 h Daphnia magna >500 mg/L IUCLID ; EC50 48 h Daphnia magna >0.06 mg/L [Static ] EPA

**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:**

Dispose in accordance with all applicable federal, state/regional, and local laws and regulations.

**SECTION 14: Transport information****United States Transportation of dangerous goods (49 CFR DOT)****UN number**

Not regulated

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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

**International Bulk Chemical Code**

This material contains one or more of the following chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

Titanium dioxide	13463-67-7
IBC Code:	Category Z (slurry)

**SECTION 15: Regulatory information****U.S. Federal Regulations**

None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

**SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories**

Carcinogenicity; Acute toxicity; Reproductive Toxicity; Serious Eye Damage/Eye Irritation; Specific Target Organ Toxicity

**Massachusetts Right to Know:**

1317-65-3	Calcium carbonate	Listed
13463-67-7	Titanium dioxide	Listed
1333-86-4	Carbon black	Listed

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**Rapid Set Flexible Construction Adhesive and Sealant****New Jersey Right to Know:**

1317-65-3	Calcium carbonate	Listed
13463-67-7	Titanium dioxide	Listed
1333-86-4	Carbon black	Listed

**New York Right to Know:**

1317-65-3	Calcium carbonate	Listed
13463-67-7	Titanium dioxide	Listed
1333-86-4	Carbon black	Listed

**Pennsylvania Right to Know:**

1317-65-3	Calcium carbonate	Listed
13463-67-7	Titanium dioxide	Listed
1333-86-4	Carbon black	Listed

Titanium dioxide	13463-67-7
Carc:	carcinogen, 9/2/2011 (airborne, unbound particles of respirable size )
Diisononyl	Monograph 93 [2010] ; Monograph 65 [1996] (Group 2B (possibly carcinogenic to humans))
phthalate	28553-12-0
Carc:	carcinogen, 12/20/2013
Carc:	carcinogen, 2/21/2003 (airborne, unbound particles of respirable size )

**Component Analysis - Inventory**

**Calcium carbonate (1317-65-3); Carbonic acid, calcium salt (1:1) (471-34-1); Titanium dioxide (13463-67-7); Diisononyl phthalate (28553-12-0); Carbon black (1333-86-4)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

**Organosilane (2768-02-7); Dibutyltin oxide (818-08-6);**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	No	Yes	Yes



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#### California Proposition 65:

**L WARNING:** Can expose you to titanium dioxide, a carcinogen, and dibutyltin oxide, a reproductive toxicant.  
See [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### 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  
**Know:** Octanol/water partition coefficient  
**KR:** Korea  
**LEL:** Lower Explosive Limit  
**UEL:** Upper Explosive Limit  
**NIOSH:** National Institute for Occupational Safety and Health Administration  
**PH:** Philippines  
**RCRA:** Resource Conservation and Recovery Act  
**OSHA:** Occupational Safety and Health Administration



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**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:** 2-1-0

**Initial preparation date:** 06/27/18

**Version #:** 3

**Revision Date:** 10/23/25

End of Safety Data Sheet