Safety Data Sheet

According to OSHA Communication Standard, 29 CFR 1910.1200

Rapid Set Low-P FA1

SECTION 1: Identification

Product identifier

Product name: Low-P FA1 Cement

Product code: 208012000, 208010050

Recommended use of the product and restriction on use

Relevant identified uses: Use for cement 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@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:

Skin irritation, category 2
Serious eye damage, category 1
Specific target organ toxicity - single exposure, category 3, respiratory irritation
Carcinogenicity, category 1A
Specific target organ toxicity - repeated exposure, category 2

Label elements

Hazard Pictograms:

Signal word: Danger

Hazard statements:

H315 Causes skin irritation.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H350 May cause cancer.
H373 May cause damage to lungs through prolonged or repeated exposure by inhalation.

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Precautionary statements:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash hands/eyes/mouth/skin/clothing thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P233 Keep container tightly closed.
P281 Use personal protective equipment as required.
P321 Specific treatment (see supplemental first aid instructions on this label).
P362 Take off contaminated clothing and wash before reuse
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P308+P313 If exposed or concerned: Get medical advice/attention.
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: 12004-14-7	Aluminum calcium oxide sulfate	10-25
CAS number: 10034-77-2	Dicalcium silicate	10-35
CAS number: 7778-18-9	Calcium sulfate	1-12
CAS number: 14808-60-7	Silica, crystalline quartz	40-70
CAS number: 50-00-0	Formaldehyde	<0.01
CAS number: 68131-74-8	Fly Ash	5-15

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Identification	Name	Weight %
CAS number: 1305-78-8	Calcium oxide	1-10
CAS number: 1309-48-4	Magnesium oxide	1-5
CAS number: 1309-37-1	Iron Oxide	0.1-3
CAS number: 12136-45-7	Potassium oxide	0.1-1
CAS number: 1314-56-3	Phosphorus pentoxide	0.1-1

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).

*Cement is primarily comprised of calcium compounds with oxides of aluminum, iron, sulfur, and silica. Trace amounts of naturally occurring, potentially harmful chemicals might be detected during chemical analysis. Trace constituents may include, but are not limited to, magnesium, potassium, sodium oxides, and hexavalent chromium.

SECTION 4: First aid measures

Description of first aid measures

General notes:

If exposed or concerned: Call a poison center or doctor.

After inhalation:

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell. If exposed or concerned: Call a poison center or doctor.

After skin contact:

Rinse affected area with soap and water. If symptoms develop or persist, seek medical attention. Take off all contaminated clothing. Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water. Get medical advice if skin irritation occurs or you feel unwell.

After eye contact:

Rinse/flush exposed eye(s) gently using water for 15-20 minutes. If symptoms develop or persist, seek medical attention. Avoid direct contact and wear chemical protective gloves, if necessary.

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do so. Continue rinsing until medical aid is available. Immediately call a POISON CONTROL CENTER or seek medical attention.

After swallowing:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If exposed or concerned: Call a poison center or doctor.

Most important symptoms and effects, both acute and delayed

Acute symptoms and effects:

SKIN CONTACT: Exposure may cause irritation. Symptoms include redness, itching, burning and inflammation.

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EYE CONTACT: Exposure may cause serious eye damage. Symptoms include irritation, redness, pain, inflammation, itching, burning, tearing, corneal damage and loss of vision.

INHALATION: Inhalation of dust may irritate the nose, throat, and respiratory tract. Symptoms include cough, sore throat, shortness of breath and inflammation of the mucous membranes lining the respiratory tract.

INGESTION: No information available.

Delayed symptoms and effects:

Effects are dependent on exposure (dose, concentration, contact time).

Exposure to respirable silica may cause cancer and damage to organs. Prolonged and/or repeated exposure to silica-containing dust may cause lung damage and a lung disease called silicosis. Silicosis is a progressive and disabling lung disease that causes pulmonary fibrosis, chronic obstructive pulmonary disorder (COPD) and lung cancer. Silicosis lowers the immune system and makes an individual more susceptible to tuberculosis. Silicosis may also cause renal disease and scleroderma – a disease affecting skin, blood vessels, joints and skeletal muscles. Symptoms of silicosis may include (but are not limited to) shortness of breath, difficulty breathing with or without exertion; coughing; diminished work capacity; diminished chest expansion; reduction of lung volume; right heart enlargement and/or failure. Not all individuals with silicosis will exhibit symptoms of the disease. However, silicosis can be progressive, and symptoms can appear at any time, even years after exposures have ceased.

Immediate medical attention and special treatment Specific treatment:

In case of eye contact, seek prompt medical attention while rinsing is continued. Exposure to wet material requires prompt medical treatment.

Notes for the doctor:

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media:

Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

Unsuitable extinguishing media:

Avoid water stream on molten burning material as it may scatter and spread the fire.

Specific hazards during fire-fighting:

Material is not explosive.

Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit.

Special precautions:

Avoid inhalation of dusts.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Avoid dust formation. Ensure adequate ventilation. 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 eye wear, gloves, and clothing. Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions:

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

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Methods and material for containment and cleaning up:

Wear protective eyewear, gloves and clothing. Sweep or scoop up solid material while minimizing dust generation. Dispose of contents/container in accordance with local regulations.

Reference to other sections:

Not determined or not applicable.

SECTION 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. Do not breathe dust. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Do not eat, drink, smoke or use personal products when handling chemical substances. Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage, including any incompatibilities:

Keep container tightly sealed. Keep container dry. Store locked up. Store in a cool, well-ventilated area.

SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
ACGIH	Silica, crystalline quartz (Respirable)	14808-60-7	ACGIH TLV TWA 0.025 mg/m^3 (Respirable fraction)
	Total Silica, crystalline quartz	14808-60-7	TWA 0.025000 mg/m^3 USA. ACGIH
	Formaldehyde	50-00-0	ACGIH TLV 0.3 ppm (ceiling)
	Fly Ash	68131-74-8	ACGIH TLV 10 mg/m^3 (Total); 3 mg/m^3 (Respirable)
	Calcium oxide	1305-78-8	ACGIH TLV 2 mg/m^3 (Total)
	Iron oxide	1309-37-1	ACGIH TLV 5 mg/m^3 (Total)
	Magnesium oxide	7487-88-9	None established
	Potassium oxide	12136-45-7	ACGIH TLV 2 mg/m^3 (Total)
	Phosphorus pentoxide	1314-56-3	None established

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
United States (OSHA)	Silica, crystalline quartz (Respirable)	14808-60-7	OSHA 8-hour TWA PEL: 0.025 mg/m³ (Respirablefraction, action level)
	Silica, crystalline quartz (Respirable)	14808-60-7	OSHA 8-hour TWA PEL: 0.05 mg/m³ (Respirable fraction, exposure limit level)
	Total Silica, crystalline quartz	14808-60-7	TWA 30.000000 mg/m³ / %SiO2+2 USA. OSHA
	Total Silica, crystalline quartz	14808-60-7	TWA 0.050000 mg/m³ USA. NIOSH
	Formaldehyde	50-00-0	OSHA PEL TWA 0.75 mg/m³
	Formaldehyde	50-00-0	OSHA STEL 2 ppm
	Fly Ash	68131-74-8	OSHA PEL 15 mg/m³ (Total); 5 mg/m³ (Respirable)
	Calcium oxide	1305-78-8	OSHA PEL 5 mg/m³ (Total)
	Iron oxide	1309-37-1	OSHA PEL 10 mg/m³ (Total)
	Magnesium oxide	7487-88-9	None established
	Potassium oxide	12136-45-7	OSHA PEL 2 mg/m³ (Total)
	Phosphorus pentoxide	1314-56-3	None established
NIOSH	Silica, crystalline quartz (Respirable)	14808-60-7	NIOSH TWA 0.05 mg/m³
	Formaldehyde	50-00-0	NIOSH REL TWA 0.016 ppm
	Formaldehyde	50-00-0	NIOSH REL 0.1 ppm
	Fly Ash	68131-74-8	None established
	Calcium oxide	1305-78-8	NIOSH TWA 2 mg/m³ (Total)
	Iron oxide	1309-37-1	None established
	Magnesium oxide	7487-88-9	None established
	Potassium oxide	12136-45-7	NIOSH TWA 2 mg/m³ (Total)
	Phosphorus pentoxide	1314-56-3	None established

Biological limit values:

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

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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:

Emergency eyewash fountains and safety showers should be available in the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above.

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.

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.

General hygienic measures:

Avoid breathing dust. Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of work. Wash contaminated clothing before reuse. Do not eat, drink, smoke or use personal products when handling chemical substances.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Solid; Gray powder
Odor	Low
Odor threshold	Not available
pH	11 - 12 when wet
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
Relative density	Not available

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Solubilities	Partially soluble
Partition coeffcient (n-octanol/water)	Not available
Auto/Self-ignition temperature	Not available
Decomposition temperature	2460°F (1350°C)
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

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:
Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Avoid accumulation of dusts on surfaces.

Incompatible materials:
Powerful oxidizers, acids, bases.

Hazardous decomposition products:
No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological information

Information on toxicological effects:

Acute toxicity

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

Product data: No data is available.

Substance data:

Name	Route	Result
Formaldehyde	Oral	LD50 Rat: 100 mg/kg
	Dermal	LD50 Rabbit: 270 mg/kg

Skin corrosion/irritation

Assessment: Causes skin irritation.

Product data: No data is available.

Substance data:

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Name	Result
Dicalcium silicate	Causes skin irritation.
Fly ash	Causes skin irritation.
Calcium oxide	Causes skin irritation.
Potassium oxide	Causes skin irritation.
Formaldehyde	Causes severe skin burns and eye damage.

Serious eye damage/irritation

Assessment: Causes serious eye damage.

Product data: No data is available.

Substance data:

Name	Result
Dicalcium silicate	Causes serious eye damage.
Fly Ash	Causes serious eye damage.
Calcium oxide	Causes eye irritation.
Potassium oxide	Causes serious eye damage.
Phosphorus pentoxide	Causes eye irritation.

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.

Name	Result
Formaldehyde	May cause an allergic skin reaction.

Carcinogenicity

Assessment: May cause cancer.

Product data: No data is available.

Substance data:

Name	Species	Result
Silica, crystalline quartz (Respirable)	Not applicable	Component may cause cancer.
Total Silica, crystalline quartz		1 - Group 1: Carcinogenic to humans (Quartz)
Formaldehyde		May cause cancer.

International Agency for Research on Cancer (IARC):

Name	Classification
Silica, crystalline quartz (Respirable)	Group 1 - Carcinogenic to humans
Formaldehyde	Group 1 - Carcinogenic to humans

National Toxicology Program (NTP):

Name	Classification

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Silica, crystalline quartz (Respirable)	Known to be human carcinogen
Formaldehyde	Known to be human carcinogen

Germ cell mutagenicity

Assessment: Based on available data, the classification criteria are not met.
Product data: No data is available.
Substance data:

Name	Result
Formaldehyde	Suspected of causing genetic defects

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)

Assessment: May cause respiratory irritation
Product data: No data is available.
Substance data:

Name	Result
Dicalcium silicate and Calcium Sulfate	May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

Assessment: May cause respiratory irritation
Product data: No data is available.
Substance data:

Name	Result
Dicalcium silicate and Calcium Sulfate	May cause respiratory irritation.
Fly ash	May cause respiratory irritation. Causes respiratory harm through prolonged or repeated exposure.
Crystalline silica	May cause respiratory irritation. May cause (lung) cancer.

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:

No data is available.

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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:

Name	Result
Formaldehyde	Readily biodegradable in water.

Bioaccumulative potential

Product data: No data available.
Substance data:

Name	Result
Formaldehyde	BCF (aquatic species): 0.396 dimensionless

Mobility in soil

Product data: No data available.
Substance data: No data available.
Other adverse effects:

Name	Result
Formaldehyde	Mobile (Calculated log Koc: 1.202)

SECTION 13: Disposal considerations

Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities.

SECTION 14: Transport information

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

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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 constituents are included in the TSCA Chemical Inventory (40 CFR 720) and exempt from inventory update reporting (40 CFR 710)

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 Hazard Classes: NReporting of fly ash is required if reporting threshold (10,000 exceeded)

- Skin corrosion or irritation
- Serious eye damage or irritation
- Specific target organ toxicity (single or repeated exposure) - Respiratory

SARA Section 313 toxic chemicals: None of the ingredients are listed.

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:

14808-60-7	Silica, crystalline quartz (Respirable)	Listed
50-00-0	Formaldehyde	Listed

New Jersey Right to Know:

14808-60-7	Silica, crystalline quartz (Respirable)	Listed
50-00-0	Formaldehyde	Listed

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New York Right to Know:

14808-60-7	Silica, crystalline quartz (Respirable)	Listed
50-00-0	Formaldehyde	Listed
1305-78-8	Calcium oxide	Listed
1309-37-1	Iron oxide	Listed

Pennsylvania Right to Know:

14808-60-7	Silica, crystalline quartz (Respirable)	Listed
50-00-0	Formaldehyde	Listed
1305-78-8	Calcium oxide	Listed
1309-37-1	Iron oxide	Listed
1314-56-3	Phosphorus pentoxide	Listed

California Proposition 65:

WARNING: Can expose you to crystalline silica*, a carcinogen, and hexavalent chromium, a reproductive toxicant. See 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 Reach on Cancer
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
JP: Japan
COD: Chemical Oxygen Demand

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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
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: 3-0-0
HMIS: 3*-0-0
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End of Safety Data Sheet