



Revision Number: 002.0

Issue date: 11/01/2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:	Fester CR-Nanotech	IDH number:	2126736
Product type:	Mortar and concrete additives		
Restriction of Use:	None identified	Region:	Mexico
Company address:		Contact information:	
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2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER:	H315 - CAUSES SKIN IRRITATION. H318 - CAUSES SERIOUS EYE DAMAGE. H335 - MAY CAUSE RESPIRATORY IRRITATION. H350 - MAY CAUSE CANCER. H372 - CAUSES DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.
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HAZARD CLASS	HAZARD CATEGORY
SKIN IRRITATION	2
SERIOUS EYE DAMAGE	1
CARCINOGENICITY	1A
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	3
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	1

PICTOGRAM(S)



Precautionary Statements

Prevention:	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe dust or fumes. P264 - Wash affected area thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves, clothing, eye and face protection. P302+P352 - IF ON SKIN: Wash with plenty of water.
Response:	P304+P340+P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - IF exposed or concerned: Get medical attention. P332+P313 - If skin irritation occurs: Get medical attention. P362 - Take off contaminated clothing.

Storage:	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
Disposal:	P405 - Store locked up.
	P501 - Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Classification complies with NOM-018-STPS-2015 and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	UN no.:	Percentage*
Cement, portland, chemicals, low chromate	65997-15-1		20 - 30
Quartz (SiO ₂)	14808-60-7		20 - 30
Fumaric acid	110-17-8		10 - 20
Sodium carbonate	497-19-8		10 - 20
Calcium distearate	1592-23-0		10 - 20

* Exact percentages may vary or are trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation:	Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical attention immediately.
Skin contact:	Remove contaminated clothing and footwear. Wash affected area immediately with soap and water. If skin irritation persists, call a physician.
Eye contact:	Wash with plenty of water immediately and continue for several minutes, holding eyelid open. Consult a doctor. Do not rub eyes; mechanical action may cause corneal damage. Check for and remove any contact lenses.
Ingestion:	Do not induce vomiting. The victim should drink several glasses of water to dilute the ingested substance. Seek medical attention immediately.
Symptoms:	See Section 11.

5. FIRE FIGHTING MEASURES

Extinguishing media:	Water spray (fog), foam, dry chemical or carbon dioxide. Avoid using a direct stream of water.
Special firefighting procedures:	Wear full protective clothing. Wear self-contained breathing apparatus.
Unusual fire or explosion hazards:	In the event of a fire, carbon monoxide (CO) and carbon dioxide (CO ₂) can be released.
Hazardous combustion products:	Irritating and toxic gases or fumes may be released during a fire.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions:	Do not let product enter drains. Dispose of according to Federal, State and local governmental regulations.
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Clean-up methods:

Remove mechanically. Rinse away residue with plenty of water. Avoid dust formation. Avoid breathing dust. Avoid skin and eye contact. Do not empty into drains / surface water / ground water.

7. HANDLING AND STORAGE**Handling:**

Keep in a cool, well ventilated area. Keep container closed. When using do not eat, drink or smoke. Keep out of the reach of children.

Storage:

Ensure adequate ventilation. Store in sealed original container. Store in a dry place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Cement, portland, chemicals, low chromate	1 mg/m ³ TWA Respirable fraction.	5 mg/m ³ PEL Respirable fraction. 15 mg/m ³ PEL Total dust. 50 MPPCF TWA	None	None
Quartz (SiO ₂)	0.025 mg/m ³ TWA Respirable fraction.	2.4 MPPCF TWA Respirable. 0.1 mg/m ³ TWA Respirable. 0.05 mg/m ³ TWA (Respirable dust.) (Respirable dust.) 0.025 mg/m ³ OSHA_ACT (Respirable dust.) 0.05 mg/m ³ PEL Respirable dust.	None	None
Fumaric acid	None	None	None	None
Sodium carbonate	None	None	None	None
Calcium distearate	3 mg/m ³ TWA Respirable fraction. 3 mg/m ³ TWA Respirable fraction. 10 mg/m ³ TWA Inhalable fraction.	None	None	None

Engineering controls:

Ensure good ventilation/suction at the workplace.

Respiratory protection:

dust mask

Eye/face protection:

Safety glasses. Do not wear contact lenses.

Skin protection:

Protective shoes. Use chemical resistant, impermeable clothing including gloves and either an apron or body suit to prevent skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES**Physical state:**

powder

Color:

light grey

Odor:

None

Odor threshold:

Not available.

pH:

Not available.

Vapor pressure:

Not available.

Boiling point/range:	Not available.
Melting point/ range:	Not available.
Vapor density:	Not available.
Flash point:	Not applicable
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not available.
Flammability:	Not applicable
Evaporation rate:	Not available.
Solubility in water:	Not available.
Partition coefficient (n-octanol/water):	Not available.
VOC content:	Not available.
Viscosity:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of storage and use.
Reactivity:	Not available.
Hazardous reactions:	None under normal processing.
Hazardous decomposition products:	None if used for intended purpose.
Incompatible materials:	Strong oxidizing agents. Acids.
Conditions to avoid:	Humidity Avoid strong oxidizing agents. Avoid contact with acids.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure:	Skin, Inhalation, Eyes, Ingestion
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Potential Health Effects/Symptoms

Inhalation:	May cause respiratory tract irritation. This product is irritating to the respiratory system. Chronic exposure to dust containing quartz silica in excess of exposure limits can cause silicosis.
Skin contact:	Causes skin irritation.
Eye contact:	Causes serious eye damage.
Ingestion:	May be harmful if swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Cement, portland, chemicals, low chromate	None	Corrosive, Irritant, Respiratory
Quartz (SiO ₂)	None	Immune system, Lung, Some evidence of carcinogenicity
Fumaric acid	Oral LD50 (Rat) = 10,700 mg/kg	Irritant, Kidney
Sodium carbonate	Oral LD50 (Rat) = 4,090 mg/kg	Irritant, Sensory
Calcium distearate	None	No Target Organs

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Cement, portland, chemicals, low chromate	No	No	No
Quartz (SiO ₂)	Known To Be Human Carcinogen.	Group 1	Yes
Fumaric acid	No	No	No
Sodium carbonate	No	No	No
Calcium distearate	No	No	No

12. ECOLOGICAL INFORMATION

Ecological information: It has a low ecotoxicity. Do not empty into drains / surface water / ground water.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal: Dispose of in accordance with local and national regulations. Waste disposal with the approval of the responsible local authority.

14. TRANSPORT INFORMATION

Road transport ADR:

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

International Air Transportation (ICAO/IATA)

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

Water Transportation (IMO/IMDG)

Proper shipping name:	Not regulated
Hazard class or division:	None
Identification number:	None
Packing group:	None

15. REGULATORY INFORMATION

No additional information

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by: Product Safety and Regulatory Affairs
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DISCLAIMER: This information is considered correct, but it's not exhaustive and will be used only as a guide, which is based on current knowledge of the chemical substance(s) and/or mixture and apply to the appropriate product for safety precautions.

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