



SAFETY DATA SHEET

325, 200M, 300M

1. Identification

Product identifier

Product name 325, 200M, 300M
Product number 7170, 7173, 7174
CAS number 14940-68-2

Recommended use of the chemical and restrictions on use

Application Ceramic

Details of the supplier of the safety data sheet

Supplier

Supplier: Trebol Florida LLC
 11400 New Berlin Road
 Jacksonville
 Florida
 32226
 USA
 Tel. ++1 904 751 2828
 Fax ++1 904 751 6828

Emergency telephone number

Emergency telephone Chemtrec: (800) 424-9300 (24 hrs) or (703) 527-3887
 Medical Poison Control Center: (800) 222-1222 (24 hrs)

2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards Not Classified
Health hazards Not Classified
Environmental hazards Not Classified

Label elements

Hazard statements NC Not Classified

3. Composition/information on ingredients

Substances

Zirconium silicate	95 - 100%
CAS number: 14940-68-2	

Classification
 Not Classified

The Full Text for all Hazard Statements are Displayed in Section 16.

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4. First-aid measures

Description of first aid measures

Inhalation	Move affected person to fresh air at once.
Ingestion	Rinse mouth thoroughly with water. Give plenty of water to drink. Keep affected person under observation. Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
Skin Contact	Remove contaminated clothing and rinse skin thoroughly with water.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

Most important symptoms and effects, both acute and delayed

General information Not available.

Indication of immediate medical attention and special treatment needed

Notes for the doctor No specific recommendations.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire.
Unsuitable extinguishing media	None.

Special hazards arising from the substance or mixture

Specific hazards	None. No unusual fire or explosion hazards noted.
Hazardous combustion products	No known hazardous decomposition products.

Advice for firefighters

Protective actions during firefighting	No specific firefighting precautions known.
Special protective equipment for firefighters	Use protective equipment appropriate for surrounding materials.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure suitable respiratory protection is worn during removal of spillages in confined areas. For personal protection, see Section 8.

Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground.

Methods and material for containment and cleaning up

Methods for cleaning up Collect powder using special dust vacuum cleaner with particle filter or carefully sweep into suitable waste disposal containers and seal securely. Wash thoroughly after dealing with a spillage.

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Reference to other sections For personal protection, see Section 8. For waste disposal, see section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Good personal hygiene procedures should be implemented. Use mechanical ventilation if there is a risk of handling causing formation of airborne dust. Avoid eating, drinking and smoking when using the product.

Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container. Keep container dry.

Specific end uses(s)

Specific end use(s) Not known.

8. Exposure Controls/personal protection

Control parameters

Occupational exposure limits

Zirconium silicate

Long-term exposure limit (8-hour TWA): ACGIH 5 mg/m³

Short-term exposure limit (15-minute): ACGIH 10 mg/m³

Long-term exposure limit (8-hour TWA): OSHA 5 mg/m³

Short-term exposure limit (15-minute): OSHA 10 mg/m³

ACGIH = American Conference of Governmental Industrial Hygienists.

OSHA = Occupational Safety and Health Administration.

Exposure controls

Appropriate engineering controls Provide adequate ventilation. Avoid inhalation of dust. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection Wear tight-fitting, dust-resistant, chemical splash goggles if airborne dust is generated.

Hand protection For prolonged or repeated skin contact use suitable protective gloves.

Other skin and body protection No specific recommendations.

Respiratory protection In confined or poorly-ventilated spaces, a supplied-air respirator must be worn.

Thermal hazards Not relevant.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Powder.

Color White/off-white.

Odor Odorless.

Odor threshold Not applicable.

pH pH (concentrated solution): ~ 6.3

Melting point 2550°C

Initial boiling point and range Not available.

Flash point Not applicable.

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Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not applicable.
Vapour pressure	Not applicable.
Vapour density	Not applicable.
Relative density	4.6 g/ml @ °C
Solubility(ies)	Insoluble in water.
Partition coefficient	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition Temperature	Not applicable.
Viscosity	Not applicable.
Explosive properties	Not considered to be explosive.
Other information	None.

10. Stability and reactivity

Reactivity	There are no known reactivity hazards associated with this product.
Stability	No particular stability concerns.
Possibility of hazardous reactions	Not known. Will not polymerize.
Conditions to avoid	There are no known conditions that are likely to result in a hazardous situation.
Materials to avoid	No specific material or group of materials is likely to react with the product to produce a hazardous situation.
Hazardous decomposition products	No known hazardous decomposition products.

11. Toxicological information**Information on toxicological effects**

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General information	<p>Zirconium Silicate contains small quantities of radioactive isotopes of Uranium and Thorium. The average concentrations in Zirconium Silicate are 300 ppm of Uranium and 180 ppm of Thorium. The radioactivity of Zirconium Silicate is due to its natural radionuclides which are not processed, and which have not been processed, in view of their radioactive, fissile or fertile properties.</p> <p>Work activities involving Zirconium Silicates are regulated under a specific regulation (Council Directive 96/29/EURATOM of 13 May 1996), which is different to that concerning radioactive substances. This Directive, establishes the need to assess the radiation exposure to which workers are or may be exposed. The radiation level established by the International Commission on Radiological Protection (ICRP) sets an annual radiation dose of 1 mSv over which physical surveillance of workers becomes required. This value has been adopted by the Commission of the European Communities.</p> <p>Studies have concluded that when workers exposure to Zirconium Silicate is continuous (2000 hours per year), the radiation dose may reach 1 mSv over the year.</p>
Inhalation	Dust in high concentrations may irritate the respiratory system.
Skin Contact	Skin irritation should not occur when used as recommended.
Eye contact	Particles in the eyes may cause irritation and smarting.
Acute and chronic health hazards	Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

Toxicological information on ingredients.**Zirconium silicate****Carcinogenicity**

IARC carcinogenicity Not listed.

OSHA Carcinogenicity Not listed.

12. Ecological Information

Ecotoxicity There are no data on the ecotoxicity of this product. The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.

Toxicity

Toxicity Not considered toxic to fish.

Acute toxicity - fish Not available.

Acute toxicity - aquatic invertebrates Not available.

Acute toxicity - aquatic plants Not available.

Acute toxicity - microorganisms Not available.

Acute toxicity - terrestrial Not available.

Persistence and degradability

Persistence and degradability The product is not biodegradable.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

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Partition coefficient Not applicable.

Mobility in soil

Mobility Not known.

Results of PBT and vPvB assessment

Results of PBT and vPvB assessment Not applicable.

Other adverse effects

Other adverse effects Not available.

13. Disposal considerations**Waste treatment methods**

Disposal methods Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

14. Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DoT).

UN Number

Not applicable.

UN proper shipping name

Not applicable.

Transport hazard class(es)

No transport warning sign required.

Packing group

Not applicable.

Environmental hazards**Environmentally Hazardous Substance**

No.

Special precautions for user

Not applicable.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

Regulatory Status Not subject to the provisions of SARA 313 Title III. Not subject to TSCA Export Notification Section 12b.

US Federal Regulations

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities
Not listed.

325, 200M, 300M**SARA 313 Emission Reporting**

Not listed.

OSHA Highly Hazardous Chemicals

Not listed.

US State Regulations**California Proposition 65 Carcinogens and Reproductive Toxins**

Not listed.

California Air Toxics "Hot Spots" (A-I)

Not listed.

California Air Toxics "Hot Spots" (A-II)

Not listed.

California Directors List of Hazardous Substances

Not listed.

Massachusetts "Right To Know" List

Not listed.

Rhode Island "Right To Know" List

Not listed.

Minnesota "Right To Know" List

Not listed.

New Jersey "Right To Know" List

Not listed.

Pennsylvania "Right To Know" List

Not listed.

Inventories**EU - EINECS/ELINCS**

Present.

Canada - DSL/NDSL

Present.

US - TSCA

Present.

US - TSCA 12(b) Export Notification

Not listed.

Australia - AICS

Present.

Japan - MITI

Not listed.

Korea - KECI

Present.

325, 200M, 300M**China - IECSC**

Present.

Philippines - PICCS

Present.

New Zealand - NZIOC

Not listed.

16. Other information

Revision date	12/04/2019
Revision	8
Supersedes date	06/17/2016

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