



SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: WESTCO™ FST-200

Other means of identification

Chemical Name: Hydrophilic Fumed silica; Silicon dioxide, chemically prepared.

Recommended use and restrictions on use

Recommended use: Anticaking agent, reinforcing agent, carrier.

Restrictions on use: No information available.

Supplier information

Supplier: Western Reserve Chemicals

Supplier Address: 4837 Darrow Road,
Stow, OH 44224 USA

Telephone: 330-650-2244

Fax: 330-650-2255

Website: www.wrchem.com

Emergency phone number: Chemtrec: 1-800-424-9300 US

SECTION 2 – HAZARD(S) IDENTIFICATION

GHS Classification of the substance or mixture in accordance with 29 CFR 1910.1200

Not classified as a hazardous substance or mixture.

GHS Label Elements

Hazard Symbol: None

Signal word: None

Hazard statements: Not applicable

Precautionary statements: Not applicable

Hazards(s) not otherwise classified (HNOC): None



SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Substance/mixture:

Chemical Identity	CAS Number	Weight%
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)	112945-52-5	>99.8%

CAS No. 112945-52-5 has been assigned to amorphous, fumed silica to distinguish it from crystalline silica. According to the EPA, this product meets TSCA requirements and is listed on the TSCA inventory as silica with CAS No. 7631-86-9.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4 – FIRST AID MEASURES

Inhalation: Move to fresh air in case of accidental inhalation and seek medical attention if necessary.

Ingestion: If swallowed, rinse mouth with water. Do not induce vomiting. Consult a physician. Never give anything by mouth to an unconscious person.

Skin contact: Remove contaminated clothing and shoes. Wash with soap and plenty of water. Obtain medical attention if irritation develops.

Eye contact: In case of eye contact, immediately flush eyes with plenty of water. Obtain medical attention if irritation develops.

Most important symptoms/effects, acute and delayed:

Potential acute health effects:

Eye contact:	None known.
Inhalation:	None known.
Skin contact:	None known.
Ingestion:	None known.

Over-exposure signs/symptoms:

Eye contact:	None known.
Inhalation:	None known.
Skin contact:	None known.
Ingestion:	None known.



Indication of immediate medical attention and special treatment needed:

No specific hazards. Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable extinguishing method: In case of fire, use water spray, foam, carbon dioxide (CO₂), or dry chemical.

Unsuitable extinguishing method: Do NOT use water jet as it may scatter and spread fire.

Specific hazards arising from chemical: None known.

Firefighting equipment/instructions: Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective equipment.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment.

Methods and materials for containment and cleaning up:

Sweep up or pick up mechanically and place in suitable, closed container for disposal.

Environmental precautions: Follow relevant local, state and federal laws and regulations. Do not allow entrance in sewer, groundwater, soil, lake, streams or ponds.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Use with adequate ventilation. Take precautionary measures against static discharges. Wear personal protective equipment when handling. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practices. Take care to prevent spills, waste and minimize release to the environment. For personal protection, see Section 8.

Conditions for safe storage, including any incompatibilities: Store containers tightly closed in a dry and well-ventilated place.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Silicon dioxide, chemically prepared:
(CAS 112945-52-5 resp. 7631-86-9)

Type
PEL

Exposure Limit Values
6 mg/m³

Appropriate engineering controls: Local exhaust recommended when generating excessive levels of airborne particles. Use sufficient ventilation to keep employee exposure below recommended limits. Discharge from the ventilation system should comply with applicable air pollution control regulations.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Safety glasses with side shields.

Skin/Hand protection: Wear impervious gloves to avoid skin contact with this product.

Body protection: To protect the body, wear impervious clothing such as coveralls to prevent skin contact with product. A safety shower and eye wash station should be readily available.

Respiratory protection: If dust is generated, wear NIOSH-approved dust respirator or dust mask. If vapors/dust are generated above exposure limits, use NIOSH approved full-face organic cartridge filter respirator, air supplied respirator or SCBA. Respirators should be selected and used in accordance with OSHA, Subpart 1 (29 CFR 1910.134)

Hygiene measures: General industrial hygiene and safety practice. When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. Wash contaminated clothing before reuse.

SECTION 9 - PHYSICAL & CHEMICAL PROPERTIES

Appearance:	Solid Powder
Color:	White
Odor:	None
pH:	3.7 - 4.5 (40 g/l suspension, 20°C)
Boiling Point/Range:	2230°C
Melting Point/Range:	1700°C
Flash Point (°C):	Not applicable
Evaporation rate:	Not applicable
Flammability (solid/gas):	Not flammable
Lower explosion limit:	Not applicable
Upper explosion limit:	Not applicable
Vapor Pressure:	Not applicable
Vapor Density:	Not applicable
Density:	2.2 g/cm ³ (20°C)
Bulk Density:	ca. 50 g/l
Solubility:	>1 mg/l in water
Partition Coefficient:	



(n-octanol/water)	Not applicable
Auto-ignition Temperature:	Not applicable
Decomposition Temperature:	Not applicable
Explosive Properties:	Not explosive
Oxidizing properties:	No oxidizing properties

SECTION 10 - STABILITY & REACTIVITY

Reactivity: No dangerous reaction known under conditions of normal use.

Chemical stability: Stable under recommended handling and storage conditions.

Possibility of hazardous reactions: No hazardous reactions are expected under normal conditions of handling and storage.

Conditions to avoid: None known.

Incompatible materials: None known.

Hazardous decomposition products: None known.

SECTION 11 - TOXICOLOGICAL INFORMATION

Acute Toxicity: **Oral:** LD50 (Rat): >5,000 mg/kg
 Inhalation: LC50 (Rat): 0.139 mg/kg/4h
 Dermal: LD50 (Rat): >5,000 mg/kg

Skin Irritation/Corrosion: Non-irritant to the skin (Rabbit).

Eye Damage/Irritation: Non-irritant to the eyes (Rabbit).

Respiratory or Skin Sensitization: No data available.

Reproductive Toxicity: No data available.

Germ cell Mutagenicity: No evidence of mutagenic effects.

Carcinogenicity: Contains no carcinogenic substances as defined by NTP, IARC and or OSHA.

STOT-single exposure: Not classified based on available information.

STOT-repeated exposure: Not classified based on available information.



Aspiration hazard: Based on industrial experience and available data, no aspiration hazard is expected.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:

LC50 (Brachydanio rerio, 96h): >10,000 mg/l

EC50 (Daphnia magna, 24h): >1,000 mg/l

Persistence and degradability:

The methods for determining biodegradability are not applicable to inorganic substances.

Bioaccumulative potential:

Not expected.

Mobility in soil:

No remarkable mobility in soil is to be expected.

SECTION 13 - DISPOSAL CONSIDERATIONS

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Product

Methods of disposal:

The generation of waste should be avoided or minimized wherever possible. Disposal should be accordance with local, state and federal chemical and waste disposal regulations.

Packaging

Methods of disposal:

Contaminated packaging: Packaging materials should be recycled or disposed of in accordance with local, state and federal regulations.

SECTION 14 - TRANSPORTATION INFORMATION

49 CFR U.S. DOT Classification: Not regulated as a dangerous good.

IATA-DGR: Not regulated as a dangerous good.

IMDG-Code: Not regulated as a dangerous good.

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



SECTION 15 - REGULATORY INFORMATION

U.S.

TSCA Inventory Status: CAS No. 112945-52-5 has been assigned to amorphous, fumed silica to distinguish it from crystalline silica. According to the EPA, this product meets TSCA requirements and is listed on the TSCA inventory as silica with CAS No. 7631-86-9.

SARA 311/312 Hazards: None present or none present in regulated quantities.

SARA 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65:

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16 - OTHER INFORMATION

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