

# SOLTEX Hydrophilic Fumed Silica FS1150, FS1200, FS1300, FS1380....

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To Canada Hazardous Products Regulations (SOR/2015-17).

Supersedes: 07/16/2019 Revision Date: 08/14/2025 Version: 1.1

#### **SECTION 1: IDENTIFICATION**

#### **Product Identifier**

Synonyms: Silicon Dioxide, Synthetic Amorphous Silica, Pyrogenic (Fumed) Amorphous Silica.

Product Name: SOLTEX FS1150, FS1200, FS1300, FS1380.

Intended Use of the Product Various, Rheological control, Flow agent, Anti-caking agent, Anti-blocking agent, Anti-settling agent, Spray aid, Thickening agent, Carrier, Viscosity control agent, Matting agent, Chemical intermediate, Stabilization agent, Filler, Reinforcing agent in: Coatings, Adhesives and/or sealants, Silicone Elastomer, Rubber Products, Suspension, Dispersion, Batteries, Cosmetics, Inks and Toners, Paints, Hygiene and Sanitary Products, Other.

# Name, Address, and Telephone of the Responsible Party

Company

Soltex Inc. (Synthetic Oils & Lubricants of Texas)

4 Waterway Square Place, Suite 275

The Woodlands, TX 77380

(281)-587-0900

soltexinc.com

### **Emergency Telephone Number**

**Emergency Number** : (800)-424-9300 (CHEMTREC); (281)-587-0900 (Other Safety Information)

### **SECTION 2: HAZARDS IDENTIFICATION**

### Classification of the Substance or Mixture

**GHS-US/CA Classification** : This chemical is not considered hazardous by the US 2012 OSHA Hazardous

Communication Standard (29 CFR 1910.1200)

**Label Elements** 

**GHS-US/CA Labeling** 

Hazard Pictograms (GHS-US/CA) : None. Signal Word (GHS-US/CA) : None. Hazard Statements (GHS-US/CA) : None. Precautionary Statements (GHS-US/CA) : None.

Other Hazards : No other hazards known.

Potential health effects

**Principle Routes of Exposure:** Inhalation, Skin Contact, Eye contact

**Eye Contact:** May cause mechanical irritation. Avoid contact with eyes.

**Skin Contact:** May cause mechanical irritation and skin drying. Avoid contact with skin. No cases of

sensitization in humans have been reported.

Inhalation: Dust may be irritating to respiratory tract. Provide appropriate exhaust ventilation at

machinery and at places where dust can be generated. See also Section 8.

Ingestion: Adverse health effects are not expected. See Section 11.

Carcinogenicity: Does not contain any substances greater than 0.1% listed by IARC (International Agency

> for Research on Cancer), NTP (National Toxicology Program), OSHA (Occupational Safety and Health Administration), ACGIH (American Conference for Governmental Industrial

Hygienists) or EU (European Union). See also Section 11.

**Target Organ Effects:** Lungs, See Section 11

**Medical Conditions Aggravated by** Asthma, Respiratory disorder

**Exposure:** 

**Potential Environmental Effects:** None known. See Section 12.

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# SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Silicon Dioxide, Synthetic Amorphous Silica, Pyrogenic (Fumed) Amorphous Silica

Name: Soltex Hydrophilic Fumed Silica FS1150, FS1200, FS1300, FS1380.

Name	Product Identifier	Weight %	GHS Ingredient Classification	
Synthetic Amorphous, Fumed Silica	(CAS No) 112945-52-5	>99.9	Not Classified	

# **SECTION 4: FIRST AID MEASURES**

### **Description of First-aid Measures**

**Inhalation:** If coughing, shortness of breath or other breathing problems occur, move to fresh air. Seek medical attention if symptoms persist. If necessary, restore normal breathing through standard first aid measures.

**Ingestion/Aspiration:** Do not induce vomiting. If conscious, give several glasses of water. Never give anything by mouth to an unconscious person. If coughing, shortness of breath or other breathing problems occur, move to fresh air. Seek medical attention if symptoms persist. If necessary, restore normal breathing through standard first aid measures.

**Contact skin/eyes:** Wash thoroughly with soap and water. Seek medical attention if symptoms develop. Flush eyes immediately with large amounts of water for 15 minutes. Seek medical attention if symptoms develop.

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

**Symptoms:** The most important known symptoms and effects are described in Section 2 and/or in Section 11

#### Indication of any immediate medical attention and special treatment needed

**Note to physicians:** Treat symptomatically.

#### **SECTION 5: FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media:** Silica is non-combustible, therefore no extinguishing media needs to be identified.

Unsuitable Extinguishing Media: None.

Specific hazards arising from the

**chemical:** None. **Hazardous combustion products:** None.

**Protective equipment and**Wear suitable protective equipment. In the event of fire, wear self-contained breathing.

Precautions for firefighters: Apparatus.

Risk of Dust Explosion: Not Applicable.

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Avoid dust formation. Ensure adequate ventilation. Use personal protective equipment.

See also Section 8.

For emergency responders: Use personal protection recommended in Section 8.

**Environmental Precautions:** Contain spilled product on land, if possible. Local authorities should be advised if

significant spillages cannot be contained.

### Methods and material for containment and cleaning up

**Methods for containment:** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Clean up promptly by vacuum. Use of a vacuum with high efficiency particulate air (HEPA)

filtration is recommended. Do not create a dust cloud by using a brush or compressed air. Pick

up and transfer to properly labelled containers. See Section 13.

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#### **SECTION 7: HANDLING AND STORAGE**

Precautions for safe handling Advice on safe handling:

Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Provide appropriate exhaust ventilation at machinery and at places where dust can be generated. Do

not create a dust cloud by using a brush or compressed air.

Take precautionary measures against static discharges. All metal parts of the mixing and processing equipment must be earthed/grounded. Ensure all equipment is electrically earthed/grounded before beginning transfer operations. Fine dust is capable of penetrating

electrical equipment and may cause electrical shorts.

General hygiene considerations: Handle in accordance with good industrial hygiene and safety practice

Conditions for safe storage, including any incompatibilities

**Storage Conditions:** Keep containers tightly closed in a dry and well-ventilated place. Do not store together

with volatile chemicals as they may be adsorbed onto product. Store at ambient

conditions. Keep in properly labeled containers.

**Incompatible materials:** None known.

### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure guidelines:** The table below is a summary. Please see the specific legislation for complete

information.

Amorphous Silica, The regulatory Australia: exposure limits are found under the Austria MAK

general silica, CAS RN 7631-86-9:

Australia: 2 mg/m³, TWA, Respirable
Austria MAK 4 mg/m³, TWA, Inhalable fraction

Finland: 5 mg/m<sup>3</sup>

Germany TRGS 900: 4 mg/m³, TWA, Inhalable fraction

India: 10 mg/m<sup>3</sup>, TWA

Ireland: 2.4 mg/m³, TWA, Respirable dust Norway: 1.5 mg/m³, TWA, Respirable dust

Switzerland: 4 mg/m³, TWA

UK WEL: 6 mg/m³, TWA, Inhalable fraction / 2.4 mg/m³, TWA, Respirable fraction

US OSHA PEL: 6mg/m³ (54 FR2701

**Dust, or Particulates Not Otherwise** 

Specified:

Belgium: 10 mg/m³, TWA, Inhalable / 3 mg/m³ TWA, Respirable

China: 8 mg/m³, TWA / 10 mg/m³, STEL

France: 10 mg/m³, TWA Inhalable dust / 5 mg/m³, TWA Respirable dust

Italy: 10 mg/m³, TWA, Inhalable / 3 mg/m³, TWA, Respirable
Malaysia: 10 mg/m³, TWA, Inhalable / 3 mg/m³, TWA, Respirable
Spain: 10 mg/m³, VLA, Inhalable / 3 mg/m³, VLA, Respirable
US ACGIH - PNOS: 10 mg/m³, TWA, Inhalable / 3 mg/m³, TWA, Respirable
US OSHA - PEL: 15 mg/m³, TWA, Total dust / 5 mg/m³, TWA, Respirable

MAK: Maximale Arbeitsplatzkonzentration (Maximum Workplace Concentration)

**PEL: Permissible Exposure Limit** 

PNOS: Particulate Not Otherwise Specified

STEL: Short Term Exposure Limit

TRGS: Technische Regeln für Gefahrstoffe (Technical Rule for Hazardous Materials)

TWA: Time Weighted Average

US ACGIH: United States American Conference of Governmental Industrial Hygienists

US OSHA: United States Occupational Safety and Health Administration

VLA: Valore Límite Ambientales (Environmental Limit Value)

WEL: Workplace Exposure Limit

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**Engineering Controls:** Ensure adequate ventilation to maintain exposures below occupational limits. Provide

appropriate local exhaust ventilation at machinery and at places where dust can be generated.

Personal protective equipment [PPE]

**Respiratory Protection:** Approved respirator may be necessary if local exhaust ventilation is not adequate.

**Hand Protection:** Wear protective gloves to prevent skin drying. Use protective barrier cream before handling

the product. Wash hands and other exposed skin with mild soap and water.

**Eye/face Protection:** Wear eye/face protection. Wear safety glasses with side shields (or goggles).

Skin and Body Protection: Wear suitable protective clothing. Wash clothing daily. Work clothing should not be

allowed out of the workplace.

**Other:** Handle in accordance with good industrial hygiene and safety practice. Emergency

eyewash and safety shower should be located nearby.

**Environmental exposure controls:** In accordance with all local legislation and permit requirements as applicable for dusts.

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

# **Information on Basic Physical and Chemical Properties**

Physical State : Solid

**Appearance** : White powder

Odor : None

Odor Threshold : Not applicable

**pH** : 3.7-4.7

**Evaporation Rate** : Not applicable

Melting Point/Freezing Point : 1700°C (NIOSH Pocket Guide to Chemical Hazards)

Boiling Point/Boiling Range : 2230°C (NIOSH Pocket Guide to Chemical Hazards)

Flash Point : Not combustible Auto-ignition Temperature : Not applicable

Flammability (solid, gas) : Not flammable. Product resists ignition and does not promote flame spread

Lower Flammable Limit: Not applicableUpper Flammable Limit: Not applicableVapor Pressure: Not applicableVapor Density: Not applicableDensity: Not availableBulk Gravity: Not availableSpecific Gravity at 20°C: Not available

Water Solubility : Slightly soluble (According to OECD 105)

Solubility(ies): Not availablePartition Coefficient (N-Octanol/Water): Not applicableDecomposition Temperature: Not applicableViscosity: Not applicable

Oxidizing Properties : No oxidizing properties

Softening Point: Not applicableVOC Content (%): Not applicableDust Explosion Classification: Not applicable

End point is listed "not applicable" due to the inherent properties of the substance

"Not available" indicates testing has not been performed

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### **SECTION 10: STABILITY AND REACTIVITY**

Stability: Stable under recommended handling and storage conditions.

**Reactivity:** Not reactive. Substance is an inert inorganic solid.

Possibility of hazardous reactions: None under normal processing.

Conditions to avoid: None known.

Hazardous polymerization: Hazardous polymerization does not occur.

Incompatible materials: None known.

Explosion data: Will not cause dust explosion.

Sensitivity to Mechanical Impact: None

**Sensitivity of Static Discharge:** This material is an inorganic dust and will not create nor support conditions that would result in a dust explosion or fire. Take precautionary measures against static discharges. Avoid dust formation. All metal parts of the mixing and processing equipment must be earthed/grounded. Ensure all equipment is electrically earthed/grounded before beginning transfer operations.

Hazardous decomposition products: None Known.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

**Acute toxicity** 

Oral LD50: LD50/oral/rat = > 5000 mg/kg. No deaths occurred and no signs of toxicity were seen during the

observation periods after single oral administration of silica (OECD 401).

**Inhalation LC50:** Due to the product's physical characteristics, no suitable testing procedure is available.

**Dermal LD50:** LD50/dermal/rabbit = > 2000 mg/kg. Very slight transient erythema in one animal. No signs of

systemic organ toxicity (OECD 402).

**Skin corrosion/irritation:** Primary irritation index = 0/8 @ 24 hr. Not classified as an irritant (OECD 404).

Serious eye damage/eye irritant: Draize score 1.0/110 @ 24 hr. Not classified as an irritant in rabbit studies (OECD 405). High dust

concentrations may cause mechanical irritation.

Sensitization: No experimental animal data are available. No cases of sensitization in humans have been

reported.

**Mutagenicity:** Not mutagenic in Ames test. Negative in the unscheduled DNA synthesis assay. Negative in the

chromosome aberration test in Chinese hamster ovary (CHO) cells.

Carcinogenicity:

No evidence of carcinogenicity was observed in multiple animal species following repeated oral

or inhalation exposure to amorphous silica. Similarly, epidemiology studies show no evidence

of carcinogenicity in workers who manufacture amorphous silica.

Reproductive Toxicity: No effects on reproductive organs or fetal development have been reported in animal toxicity

studies.

STOT - single exposure: Based on available data, specific target organ toxicity is not expected after single oral, single

inhalation, or single dermal exposure.

STOT - repeated exposure: Repeated dose toxicity: oral (rat), 2 weeks to 6 months, no significant treatment-related adverse

effects at doses of up to 8% silica in the diet.

Repeated dose toxicity: inhalation (rat), 13 weeks, Lowest Observed Effect Level (LOEL)=1.3 mg/m<sup>3</sup>

based on mild reversible effects in the lungs.

Repeated dose toxicity: inhalation (rat), 90 days, LOEL = 1 mg/m3 based on reversible effects in the

lungs and effects in the nasal cavity.

Based on available data, a STOT-RE classification is not warranted.

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

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### **SECTION 12: ECOLOGICAL INFORMATION**

Pollutant potential:

Persistence and degradability: The methods for determining biodegradability are not applicable to inorganic substances.

**Bioaccumulation:** Not expected due to physicochemical properties of the substance.

**Mobility:** Not expected to migrate.

PBT and vPvB Assessment: This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not

considered to be very persistent nor very bioaccumulating (vPvB).

Other adverse effects: Not available.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

Disclaimer: Information in this section pertains to the product as shipped in its intended composition as described in Section 3 of this SDS. Contamination or processing may change waste characteristics and requirements. Regulations may also apply to empty containers, liners or rinsate. State/provincial and local regulations may be different from federal regulations.

RCRA: Unused product is not a hazardous waste under U.S. RCRA, 40 CFR 261.

Disposal considerations: Disposal should be in accordance with applicable regional, national and local laws and regulations

### **SECTION 14: TRANSPORT INFORMATION**

#### DOT

UN/ID no Not regulated
Proper Shipping Name Not regulated
Hazard Class Not regulated
Packing Group Not regulated

### ICAO (air)

UN/ID no Not regulated
Proper Shipping Name Not regulated
Hazard Class Not regulated
Packing Group Not regulated

# <u>IATA</u>

UN/ID no Not regulated
Proper Shipping Name Not regulated
Hazard Class Not regulated
Packing Group Not regulated

#### <u>IMDG</u>

UN/ID no Not regulated Proper Shipping Name Not regulated Hazard Class Packing Not regulated Group Not regulated

# RID

UN/ID no Not regulated
Proper Shipping Name Not regulated
Hazard Class Not regulated
Packing Group Not regulated

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#### **ADR**

UN/ID no Not regulated
Proper Shipping Name Not regulated
Hazard Class Not regulated
Packing Group Not regulated

#### **SECTION 15: REGULATORY INFORMATION**

Regulatory information is found under the general silica: CAS RN 7631-86-9, EINECS RN 231-545-4.

#### **US Federal Regulations**

#### TSCA Section 12(b) Export Regulations

This product does not contain any chemicals which require export notification under TSCA 12(b).

#### SARA Section 302 (40 CFR 355) Extremely Hazardous Substances

No components are listed as extremely hazardous substances under SARA Section 302.

#### SARA 311/312 Hazard Categories

See GHS classification in section 2 for applicable SARA 311/312 hazard categories under the revised 40 CFR 370 (June 13, 2016).

#### SARA Section 313 (40 CFR 372) Toxics Release Inventory

Does not contain any of the substances identified under Section 313 as toxic chemicals in excess of the de minimis concentrations necessary to be subject to the supplier notification requirements.

#### Clean Air Act Amendments of 1990 (CAA, Section 112, 40 CFR 82)

This product does not contain any components listed as a Hazardous Air Pollutant, Flammable Substance, Toxic Substance, or Class 1 or 2 Ozone Depletor

#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

## **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

#### **US State Regulations**

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### **US State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania	Louisiana:
Silica	-	X	X	-
7631-86-9				

#### Canada - WHMIS Classification (HPR, SOR/2015-17)

See Section 2 for Hazard Classification. This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the M/SDS contains all the information required by the Hazardous Products Regulations.

#### **International Regulations**

Listed on the EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

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Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on the Korean ECL (Existing Chemicals List)

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on TCSI (Taiwan Chemical Substance Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the United States TSCA (Toxic Substances Control Act) Section 8(b) inventory

# SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 08/14/2025

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard

Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR).

#### **References:**

NIOSH Pocket Guide to Chemical Hazards, September 2005. "Silica, amorphous". DHHS (NIOSH) Publication No. 2005-149. National Technical Information Service, Springfield, VA. p. 277

#### Party Responsible for the Preparation of This Document

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Soltex US GHS SDS

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