SOLTEX Hydrophilic Fumed Silica

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).

Revision Date: 07/16/2019 Date of issue: 07/16/2019 Version: 1.0

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)
3707 FM 1960 W Ste. 560
Houston, TX 77068
(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 Exposure:	Asthma, Respiratory disorder
Potential Environmental Effects:	None known. See Section 12.

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.

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 exposure limits are found under the general silica, CAS RN 7631-86-9:	Australia:	2 mg/m³, TWA, Respirable
	Austria MAK	4 mg/m³, TWA, Inhalable fraction
	Finland:	5 mg/m³
	Germany TRGS 900:	4 mg/m³, TWA, Inhalable fraction
	India:	10 mg/m³, 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

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 applicable
Upper Flammable Limit	:	Not applicable
Vapor Pressure	:	Not applicable
Vapor Density	:	Not applicable
Density	:	Not available
Bulk Gravity	:	Not available
Specific Gravity at 20°C	:	Not available
Water Solubility	:	Slightly soluble (According to OECD 105)
Solubility(ies)	:	Not available
Partition Coefficient (N-Octanol/Water)	:	Not applicable
Decomposition Temperature	:	Not applicable
Viscosity	:	Not applicable
Oxidizing Properties	:	No oxidizing properties
Softening Point	:	Not applicable
VOC Content (%)	:	Not applicable
Dust 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

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^3 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.

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

IATA

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

IMDG

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

RID

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

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 7631-86-9	-	X	X	-

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)
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 : 07/16/2019

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

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.