



CRYSTAL FILTRATION CO.

MATERIAL SAFETY DATA SHEET

FILSORB XP20

1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: FILSORB XP20

GRADE:

SUPPLIER: Crystal Filtration Co.

2158 Avon Industrial Drive

Rochester Hills, MI, 48309 Tel: 248-844-1239 Fax: 248-844-8063

2 - COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS NO.	%W/W
Synthetic amorphous silica	112926-00-8	~ 48
Sodium Silicate	1344-09-8	~ 47-49
Water	7732-18-5	~ 4
Sodium Sulfate	7757-82-6	~ 0.1-2

3 - HAZARDS IDENTIFICATION

FILSORB XP20 has not been evaluated as a single product.

Emergency Overview: White odorless powder. Causes burn to skin and eyes. Dust irritating to respiratory tract.

React with acids and some organics

Eye Contact: Causes eye burn

Skin Contact: Causes skin burn and dries mucous membrane

Inhalation: Dust irritating to respiratory tract

Chronic hazards: No Known Chronic hazards. Not Listed by NTP, IARC or OSHA as a carcinogen

Physical hazards: Spill May be slippery

HMIS Rating (Scale 0-4) Synthetic amorphous silica

HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

4 - FIRST AID MEASURES

Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If worn, remove contact lenses. Get medical attention immediately.

Skin: In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Get medical attention immediately. Wash clothing before reuse.

Inhalation: Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. get medical attention.

Ingestion: If swallowed, do not induce vomiting. Get medical attention immediately. If victim is fully conscious, give a cup of water.

General Advice: In case of doubt or when symptoms persist, seek medical attention.

5- FIRE –FIGHTING MEASURES

Flammable limits: This material is noncombustible

Extinguishing media: FILSORB XP20 is not explosive, flammable or combustible. Select the proper media to extinguish a surrounding fire.

6- ACCIDENTAL RELEASE MEASURES

Personal protection- Avoid dust formation. Wear chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots. NIOSH- approved dust respirator.

Large spill clean up: Keep unnecessary people away; isolate the hazard area and deny entry. Do not touch or walk through the material. Carefully shovel or sweep up spilled material and place in a suitable container. Avoid generating dust. Use appropriate Personal Protective equipment (PPE).

7- HANDLING AND STORAGE

Handling: Avoid dust formation. Do not get in eyes, on skin, or on clothing. Avoid breathing dust keep container closed. Promptly clean up spills. Wash thoroughly after handling.

Storage: Store in a dry area. Keep containers closed and protected from physical damage. Separate from acids, reactive metals, and ammonium salts. Do not store in aluminum, Fiberglass, Copper, Brass, Zinc or galvanized containers. This product can absorb water from air. In case of high humidity or storage for extended period of time, use plastic bag to enclose product containers to avoid caking.

8-EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use only with adequate ventilation. Keep containers closed. Safety shower and eyewash fountain should be within direct access.

Eye Protection: Safety glasses with side shields.

Skin and body protection: Use suitable protective clothing, gloves, and footwear. Select with regard for use conditions and exposure potential.

Respiratory protection: In case of exposure to high level of airborne dust, wear a respirator in compliance with national legislation. Observe OSHA regulations for respirator use (29 C.F.R 1910.134)

Hygiene measures: Handle in accordance with good industrial and safety practice.

9- PHYSICAL CHEMICAL PROPERTIES

	Synthetic Amorphous silica	Sodium silicate
Appearance:	White powder	White powder
Odor:	Odorless	Odorless
PH:	approximately 5-6.5	12.4
Solubility in water:	Insoluble	Soluble
Flash point:	Non- combustible	Non-Combustible
Viscosity:	N/A	N/A
Boling point:	N/A	N/A
Vapor density:	N/A	N/A
Evaporation rate:	N/A	N/A
Ignition Temperature:	N/A	N/A

10-STABILITY AND REACTIVITY

Stability: stable under ambient temperature (21 C) and pressure (760mm hg)

Conditions to Avoid: None

Materials to avoid: Generates heat when mixed with acid. May react with ammonium salt solution resulting in evolution of ammonia gas. Flammable hydrogen gas may be produced on contact with aluminum, tin, lead, and Zinc

Hazardous decomposition products: Hydrogen

11- TOXICOLOGICAL INFORMATION

Skin Irritation: May dry skin and mucous membranes.

Sensitization: Does not cause sensitization.

Chronic Toxicity: No evidence of mutagenic, reproductive, or carcinogenic effects.

Acute toxicity: This product has not been tested as a whole. This product does not contain any designated by IARC, NTP, and OR OSHA as a carcinogen.

Data from laboratory studies conducted by CP Kelco and / or from scientific literature on component are summarized below.

Synthetic amorphous Silica

LD50 Oral > 3300 mg/kg (rat)

LD50 Dermal > 5000 mg/kg (rat)

LC 50 Inhalation > 2.0 mg/l (rat)

Sodium Sulfate

LD50 Oral > 10000mg/kg (rat)

12-ECOLOGICAL INFORMATION

Ecotoxicity: This product not tested as a whole. This product is not expected to be toxic to aquatic life. no biocide added.

Mobility: Inert material

Bioaccumulative potential: Inert material

Other adverse effects: None known

Synthetic amorphous silica

96-Hours LC50 Brachydanio rerio: 5000mg/L (Static)

72-Hour EC50 Pseudokirchneriella Subcapitata: 44- mg/L

48-Hour EC50 Ceriodaphnia dubia: 7600 mg/L

Sodium sulfate

96-Hours LC50 Daphnia magna: 630mg/L

Primephales promelas: 13500-14500 mg/L

13-Disposal Considerations

Disposal Methods: Dispose in accordance with local, State, and national regulations.

The component of FILSORB XP20 is not regulated under RCRA landfill requirements. However, it is responsibility of user of the product to determine, at the time of disposal, whether the product fall under RCRA as a regulatory waste.

14-Transport Information

DOT: Not regulated

15- REGULATORY INFORMATION

Classification: This product has been classified in accordance with hazard criteria of the controlled products regulations (CPR) and the MSDS Contains all information required by the CPR.

NATIONAL CHEMICAL INVENTORY LISTING

USA (TSCA): Silicon Dioxide 7631-86-9, Sodium Sulfate 7757-82-6

CANADA (DSL/NDSL): Synthetic amorphous silica 112926-00-8, Sodium Sulfate 7757-82-6

Disclaimer: The information contained in this safety data sheet is the best information available to Crystal filtration. However, no representation, warranty, or guarantee is implied or expressed regarding the accuracy, reliability, or completeness of this information or use of the product.

Users and handlers of this product should make their own investigations to determine the suitability of the information provided herein for their own purposes.