

Material Safety Data Sheet

Revision Issued: 12/06/2012 Supersedes: 9/21/2007 First Issued: 2/25/1988

Section I - Chemical Product And Company Identification

Product Name: Hi-Fibe 990

CAS Number: N/A

HBCC MSDS No. CH03120



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Section II - Composition/Information On Ingredients

Chemical Name	CAS Number	Exposure Limits (TWAs) in Air		
		ACGIH TLV	OSHA PEL	NIOSH PEL
Magnesium Silicate Hydrate	14807-96-6	2 mg/M ³	20 Mppcf	0.05 mg/M ³
Silicon Dioxide (Respirable)	14808-60-7	0.1 mg/m ³	10 mg/m ³	N/A
Silicon Dioxide (Dust)		0.1 mg/m ³	30 mg/m ³	N/A
Poly (p-phenylenediamine terephthalamide)	26125-61-1	N/A	N/A	N/A

Section III - Hazard Identification

Routes of Exposure: Inhalation, Skin, and Eyes

Summary of Acute Health Hazards

Ingestion: Large doses may cause gastric irritation, nausea, and diarrhea.

Inhalation: Inhalation of large amounts may lead to pulmonary edema. May cause irritation to the upper respiratory tract.

Skin: May cause irritation of the skin.

Eyes: May cause irritation of the eyes.

Summary of Chronic Health Hazards: Prolonged inhalation of dust is associated with respiratory effects. Chronic inhalation of dust can produce silicosis, a disease of the lungs. Cardiopulmonary impairment may occur.

Signs and Symptoms of Exposure: Short term overexposure to silica can produce cough, wheezing and shortness of breath.

Effects of Overexposure: Long term overexposure to silica dust causes silicosis, a form of pulmonary fibrosis. Continued exposure to silica dust can lead to cardiopulmonary impairment.

Medical Conditions Generally Aggravated by Exposure: N/A

Note to Physicians: N/A

Section IV - First Aid Measures

Wash dust from skin with soap and water. Flush out eyes with generous amounts of water for at least 15 minutes. See a Physician if irritation persists.

Ingestion: If large amounts are swallowed, give water to drink and get medical advice.

Inhalation: Remove to fresh air. Get medical attention for any breathing difficulty.

Skin: Wash with soap and water. OBTAIN MEDICAL ATTENTION.

Eyes: Flush with water for 15 minutes. OBTAIN MEDICAL ATTENTION.

Section V - Fire Fighting Measures

Flash Point: N/A

Autoignition Temperature: N/A

Lower Explosive Limit: N/A

Upper Explosive Limit: N/A

Unusual Fire and Explosion Hazards: Will not support combustion.

Extinguishing Media: Water, CO₂, foam, or dry chemicals

Special Firefighting Procedures: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

Section VI - Accidental Release Measures

Notify Safety Personnel of major spills. Provide ventilation. Clean-up personnel need protection against eye contact and inhalation of dust. Pick up spills taking care to avoid raising dust clouds (vacuum or wet sweeping is recommended). Place in closed container for disposal.

Section VII - Handling and Storage

Prevent possible eye and skin contact by wearing protective clothing and equipment. Do not store in direct sunlight. Prolonged exposure to sunlight and other UV light will cause discoloration, and the strength of the fiber can be degraded.

Section VIII - Exposure Controls/Personal Protection

Respiratory Protection: If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A full-face piece respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect worker in oxygen deficient atmospheres.

Ventilation: Local exhaust ventilation to collector or containment recommended to control dust to below exposure limits.

Protective Clothing: Depending on exposure levels, it may be necessary to provide body covering work clothes, special vacuuming facilities for clothes and suitable laundering or disposal arrangements, change areas with clean side/dirty side locker facilities, shower before changing to street clothes after work. Be sure talc dust is not carried home on shoes and clothing.

Eye Protection: Safety Glasses, Goggles, or Face Shield

Other Protective Clothing or Equipment: Wear protective gloves.

Work/Hygienic Practices: Avoid contact with the eyes and excess inhalation of HI-FIBE 990 dust. Wash hands thoroughly after handling, and before eating, drinking, or smoking. Do NOT place food, coffee or other drinks in the area where dusting or splashing of solutions is possible.

Section IX - Physical and Chemical Properties

Physical State: Solid **pH:** N/A
Melting Point/Range: Softens 300-350F **Boiling Point/Range:** N/A
Appearance/Color/Odor: Yellow fluffy fibers, odorless
Solubility in Water: Insoluble **Vapor Pressure(mmHg):** N/A
Specific Gravity(Water=1): 2.5-2.7 **Molecular Weight:** N/A
Vapor Density(Air=1): N/A **% Volatiles:** <1.0
How to detect this compound : N/A

Section X - Stability and Reactivity

Stability: Stable **Hazardous Polymerization:** Will not occur
Conditions to Avoid: Dusting
Materials to Avoid: Manganese trifluoride, fluorine monoxide, chlorine trifluoride.
Hazardous Decomposition Products: N/A

Section XI - Toxicological Information

Talc: irritation skin human: 300 ug/3D-1 mild; investigated as a tumorigen.

Silica, Amorphous:
-diatomaceous earth: investigated as a tumorigen

Silica, Crystalline:
-tripoli: investigated as a tumorigen.
-tridymite: investigated as a tumorigen and mutagen.
-quartz: investigated as a tumorigen and mutagen.
-cristobalite: investigated as a tumorigen.
-fused: investigated as a tumorigen.

Section XII - Ecological Information

N/A

Section XIII - Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

Section XIV - Transport Information

DOT Proper Shipping Name: N/A
DOT Hazard Class/ I.D. No.: N/A

Section XV - Regulatory Information

Reportable Quantity: N/A

NFPA Rating: Health - 1; Flammability - 0; Instability - 0

0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

Carcinogenicity Lists: NTP: No **IARC Monograph:** No **OSHA Regulated:** No

WARNING

This product contains a chemical known to the State of California to cause cancer.

Section XVI - Other Information

Synonyms/Common Names: Hi-Fibe 990

Chemical Family/Type: N/A

Inhalation:

Threshold Limit Values:

TALC - 20 mppcf (OSHA), 2 mg/M³, respirable dust (ACGIH)

SILICA - 10 mg/M³ / % SiO₂ + 2, or 50 mg/M³ / % SiO₂ + 5 (OSHA), 0.1 mg/M³ ,

Respirable dust (ACGIH), 0.3 mg/M³ , Total dust (ACGIH), 0.05 mg/M³ ,

recommended (NIOSH)

Sections Changed Since Last Revision: III, V, IX

IMPORTANT! Read this MSDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This MSDS has been prepared according to the OSHA Hazard Communication Standard [29 CFR 1910.1200]. The MSDS information is based on sources believed to be reliable. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse are beyond our control, **Hill Brothers Chemical Company** makes no warranty, either expressed or implied, with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. Also, additional information may be necessary or helpful for specific conditions and circumstances of use. It is the user's responsibility to determine the suitability of this product and to evaluate risks prior to use, and then to exercise appropriate precautions for protection of employees and others.