

MATERIAL SAFETY DATA SHEET
(OSHA 29 CFR 1910.1200)

Product: HydroPlug

Section 1: Manufacturer's Name

JETomes & Associates, Inc.

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Emergency Telephone Number: N/A

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Section II: Product Identification

Product Name

HydroPlug

Code #

C118/ C120/ C121

Section III: Hazardous Ingredients/Identify Information

Hazardous Components	CAS No.	PEL(OSHA) mg/M3	TLV(ACGIH) mg/M3
Silica Sand, Crystalline	14808-60-7	10 %SiO ₂ +2	0.05 (respirable)
Portland Cement	65997-15-1	5	15
May contain one or more of the following ingredients:			
Amorphous Silica	07631-86-9	80mg %SiO ₂	10
Calcium Sulfate	10101-41-4	5	5
Lime	01305-62-0	5	5
Fly Ash	68131-74-8	5	5
Calcium Aluminate Cement	65997-16-2	5	5
Copolymer Powder	249374-78-8	N/A	N/A
Silicon Dioxide	7440-21-3	N/A	N/A
Glass Fiber	N/A	N/A	N/A

Other Limits: National Institute for Occupational Safety and Health (NIOSH). Recommended standard maximum permissible concentration=005mg/M3 (respirable free silica) as determined by a full-shift sample up to 10-hour working day, 40-hour work week. See NIOSH Criteria for a Recommended Standard Occupational Exposure to Crystalline.

Section IV: Physical/Chemical Characteristics

Appearance: Gray to gray-brown colored powder. Some products contain coarse aggregate
Vapor Pressure: none
Vapor Density: none
Solubility in Water: Slight
Boiling Point: >2700F
Melting Point: >2700F
Evaporation Rate: none
Odor: None
Specific Gravity: 2.6-3.15

Section V: Fire and Explosion Hazard Data

Flammability: Noncombustible and not explosive

Section VI: Reactivity Data

Stability: stable

Incompatibility (Materials to avoid): Contact of silica with powerful oxidizing agents such as fluorine, chlorine, trifluoride, manganese trioxide, oxygen difluoride, may cause fires.

Hazardous Decomposition or Byproducts: Silica will dissolve in hydrofluoric Acid and produce a corrosive gas silicon tetrafluoride..

Hazardous Polymerization: Will not occur.

Conditions to avoid: Keep dry until used to preserve product utility.

Section VII: Health Hazard Data

Route(s) of Entry: Inhalation: yes **Skin:** yes **Ingestion:** yes

Acute Exposure: Product becomes alkaline with exposed to moisture. Exposure can dry the skin, cause alkali burns and effect the mucous membranes. Dust can irritate the eyes and upper respiratory system. Toxic effects noted in animals include, for acute exposures, alveolar damage with pulmonary edema.

Chronic Exposure: Dust can cause inflammation of the lining tissue of the interior of the nose and inflammation of the cornea. Hypersensitive individuals may develop an allergic dermatitis. Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs and possibly cancer. There is evidence that exposure to respirable silica or the disease silicosis is associated with an increased incidence of Scleroderma, tuberculosis and kidney disorders.

Carcinogenicity Listings:

Known carcinogen	
OSHA:	not listed as a carcinogen
IARC Monographs:	Group 1 Carcinogen
California proposition65:	Known carcinogen.

NTP: The National Toxicology Program, in its "Ninth Report on Carcinogens" (released May 15, 2000) concluded that "Respirable crystalline silica (RCS), primarily quartz dusts occurring in industrial and occupational settings, is known to be a *human carcinogen*, based on sufficient evidence of carcinogenicity from studies in humans indicating a casual relationship between exposure to RCS and increased lung cancer rates in workers exposed to crystalline silica dust (reviewed in IAC, 1997; Brown et al., 1997; Hind et al., 1997).

IARC: The International Agency for Research on Cancer ("IARC") concluded that there was "*Sufficient evidence*" in humans for the carcinogenicity of crystalline silica in the forms of quartz or cristobalite from occupational sources", and that there is "*sufficient evidence* in experimental animals for the carcinogenicity of quartz or cristobalite." The overall IARC evaluation was that "crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1)." The IARC evaluation noted that "carcinogenicity was not detected in all industrial circumstance or studies. Carcinogenicity may be dependant on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." For further information on the IARC evaluation, see IARC Monographs on the Evaluation of carcinogenic Risks to Humans, Volume 68, "Silica, Some Silicates..." (1997).

Signs and Symptoms of Exposure: Symptoms of excessive exposure to the dust include shortness of Breathe and reduced pulmonary function. Excessive exposure to skin and eyes especially when mixed with water can cause caustic burns as severe as third degree.

Medical Conditions Generally Aggravated y Exposure: Individuals with sensitive skin and with pulmonary and/or respiratory disease, including but not limited to asthma and bronchitis, or subject to eye irritation, should be precluded from exposure. Exposure to crystalline silica or the disease silicosis is associated with increased incidence of scleroderma, Tuberculosis and possibly increased of kidney lesions.

Emergency First Aid Procedures: Irrigate (flood) eyes immediately and repeatedly with clean water. Wash exposed skin areas with soap and water. If irritation or inflammation occurs seek prompt attention. For gross inhalation, removed person immediately to fresh air, give artificial respiration as needed. Get prompt medical attention.

Section VIII: Precautions for Safe Handling and Use

Spills: If spilled, use dustless methods (vacuum) and place into close able container for disposal or sue if not contaminated or wet. Use adequate ventilation.

Waste Disposal Method: The packaging and material may be land filled; however, material should be covered to minimize generation of airborne dust. This product is not classified as a hazardous waster under RCRA or CERCLA.

Section VIII: Control Measures/Personal Protection

Inhalation: DO NOT BREATHE DUST. In dusty environments, the use of OSHA, MSHA or NIOSH approved respirator is recommended. Local exhaust can be used if necessary, to control airborne dist levels.

Eyes: Wear tight fitting goggles

Skin: The use of barrier creams or impervious gloves, boots and clothing to protect the skin from contact is recommended. Following work, workers should shower with soap and water.

Precautions must be observed because burns occur with little warning-little heat is sensed.

WARN EMPLOYEES AND/OR CUSTOMERS OF THE HAZARDS AND REQUIRED OSHA PRECAUTIONS ASSOCAITED WITH THE USE OF THIS PRODUCT.

Note: The information and recommendations contained herein are based upon the date believed to be correct. However, no guarantee or warranty of any kind, express or implies, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects, which may be caused by exposure to silica contained in our products. Customers-users must comply with all applicable health and safety laws, regulations and orders covering silica.