



MATERIAL SAFETY DATA SHEET

PRODUCT: *Flame Shield Mix 1670*

PRODUCT IDENTIFICATION

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| Trade Name: Flame Shield Mix 1670 | Chemical Name: Mixture |
| Chemical Family: Ceramic Adhesive | Chemical Formula: n/a |
| Hazardous Components of Mixtures: None | |
| Ingredients (Inert and Hazardous): Aluminum Oxide*) | C.A.S. # 1344-28-1 ACGIH TLV – 10 mg/M ³ OSHA PEL – N/D |
| Silicate Solution*) | C.A.S. # 1312-76-1 ACGIH TLV – N/D OSHA PEL – N/D |

* NOTE: The above powders are suspended in an inorganic liquid solution, therefore no free dust exists

| | |
|----------------------|---|
| Health: | 0 |
| Flammability: | 0 |
| Reactivity: | 0 |

Physical Data

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|----------------------------|----------------------|
| Boiling Point | 212oF |
| Melting Point | No Data |
| Evaporation Rate | <1.00 |
| Solubility in Water | 50% |
| Appearance | White viscous liquid |
| V.O.C. content | 0 gm/ltr |
| Specific Gravity | 2.4 |
| Vapor Pressure | No Data |
| Vapor Density | No Data |
| Odor | None |

Fire and Explosion Data

| | |
|---|--|
| Flash Point | No Data |
| Lower / Upper Explosive Limit | No Data |
| Extinguishing Media | Not flammable |
| Special Fire Fighting Procedures | Use self contained air supplied breathing apparatus, and impervious protective clothing |
| Unusual Fire and Explosion Data | Not considered a fire hazard and does not support combustion. When involved in a fire, does not contribute any unusual fire hazards. |

Health Hazard Data

Inhalation

Causes irritation to the respiratory tract; may cause sneezing, burning, or itching in nose and throat. May aggravate asthma and lung diseases.

Dermal Exposure

Causes skin irritation; may cause itching and burning of skin.

Eye Irritation

Causes eye irritation; may cause pain, redness, and tearing.

Ingestion

Causes irritation to the esophagus and stomach, may cause nausea, vomiting, and diarrhea.

Emergency and First-Aid Procedures

Eyes

Flush with large amounts of water, lifting upper and lower lids occasionally, get medical attention if irritation occurs.

Skin

Thoroughly wash exposed area with soap and water. Remove contaminated clothing, and launder before re-use.

Ingestion

Immediately drink two glasses of water and induce vomiting by either giving Ipecac syrup or by placing finger at back of throat. Never give anything by mouth to an unconscious person. Get medical attention immediately.

Inhalation

Remove to fresh air, consult a physician if necessary.

Reactivity Data

Hazardous Polymerization

Will not occur

Hazardous Decomposition or By Products

Hydrogen - see "Conditions to Avoid"

Stability

Stable

Conditions to Avoid

Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead, and zinc, in an alkaline environment.

Incompatibility

Gels when mixed with acid.

Precautions for Safe Handling and Use

Steps to be Taken In Case Material is Released or Spilled

Isolate, dike and store discharged material, if possible. Otherwise disperse and flush with water, observing environmental protection regulation.

Waste Disposal Method

Dispose of in accordance with local, state, and Federal regulations.

Special Protection Information

Use NIOSH approved mist respirator where spray occurs. Use of rubber gloves and chemical goggles is recommended.

Good industrial hygiene practice requires that employee exposure be maintained below the recommended TLV. This is preferably achieved through the provision of adequate ventilation where necessary. Where dust cannot be controlled in this way, personal respiratory protection should be employed.

Disclaimer of Liability

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Other: For additional information, contact Champion Fiberglass, Inc.; 6400 Spring Stuebner Rd., Spring, TX 77389; Phone (281) 655-8900.

Spring, TX 11/11/2008

A handwritten signature in cursive script that reads "Goran Haag".

Goran Haag