

# MATERIAL SAFETY DATA SHEET

ISSUE DATE: 1/9/97

REVISED DATE: 9/02/09

Supercedes: Any Previous M.S.D.S. On This Product

DUCTMATE INDUSTRIES, INC.

EMERGENCY PHONE NUMBER: CHEM-TEL INC. 1-800-255-3924

## I. IDENTIFICATION

**PRODUCT NAME:** Hi-Temp Ceramic Adhesive

**CHEMICAL FAMILY:** Silicates

**FORMULA:** Silica Powder suspended in a Silicate Solution

DUCTMATE INDUSTRIES, INC.

1502 Industrial Drive

Monongahela, PA 15063

## II. HAZARDOUS INGREDIENTS

Hazardous Compounds	CAS#	ACGIH TLV
Zirconia	1314-23-4	5 mg/m3
Silicate Solution	1312-76-1	N/D
Kaolin	1332-58-7	5 mg/m3

NOTE: The above powder is suspended in a liquid solution, therefore no free dust exists.

## III. PHYSICAL DATA

**APPEARANCE:** Odorless, Beige Viscous Liquid.

**BOILING POINT:** 210 degrees F

**SPECIFIC GRAVITY:** 1.9

**VAPOR DENSITY:** No data

**SOLUBILITY IN WATER:** 50%

**EVAPORATION RATE:** No data (Butyl Acetate=1)

## IV. HEALTH AND FIRST AID

**IN EYES:** Immediately flush eyes for at least 15 minutes. If irritation occurs get medical attention.

**ON SKIN:** Immediately flush skin.

**INGESTED:** 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.

**EFFECTS OF OVEREXPOSURE:**

**INHALATION:** May cause irritation to the respiratory tract; may cause sneezing, burning, or itching in the nose and throat. May aggravate asthma and lung disease.

**DERMAL EXPOSURE:** May cause skin irritation; may cause itching and burning of skin.

**EYE IRRITATION:** May cause eye irritation; may cause pain, redness, and tearing.

**INGESTION:** May cause irritation to the esophagus and stomach.

## V. FIRE AND EXPLOSION HAZARD DATA

**FLAMMABILITY CLASS:** No data

**FLASH POINT:** No data

**EXTINGUISHING MEDIA:** Not flammable

**UNUSUAL FIRE HAZARD:** Not considered a fire hazard and does not support combustion. When involved in a fire, does not contribute any unusual hazards.

**FIRE FIGHTING PROCEDURES:** Use self-contained air supplied breathing apparatus and impervious protective clothing.

**PRODUCT OF COMBUSTION:** N/A

## VI. SPILL OR LEAK PROCEDURES

**IF RELEASED OR SPILLED:** Isolate, dike, and store discharged material if possible. Otherwise disperse and flush with water, observing environmental protection regulations.

**WASTE DISPOSAL METHOD:** Dispose of in accordance with local, state, and federal regulations.

Do not allow material to freeze.

## VII. SPECIAL PROTECTION

**VENTILATION:** Use NIOSH approved mist respirator where spray occurs.

**EYE PROTECTION:** Use of chemical goggles is recommended where spray occurs.

**HAND PROTECTION:** Use of rubber gloves is recommended where spray occurs.

**OTHER:**

## **VIII. REACTIVITY DATA**

**STABILITY:** Stable

**INCOMPATIBILITY:** Gels when mixed with acid. Flammable hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead, and zinc, in an alkaline environment.

**HAZARDOUS DECOMPOSITION:** Hydrogen gas - see "Incompatibility"

**HAZARDOUS POLYMERIZATION:** Will not occur.

## **IX. SPECIAL PRECAUTIONS**

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.

This information is taken from sources or based upon data believed to be reliable; however, DUCTMATE INDUSTRIES, INC. makes no warranty as to the absolute correctness or sufficiency of any of the foregoing or that additional or other measures may not be required under particular conditions.