

PHOSPHATE BONDED INVESTMENTS - POWDER
MATERIAL SAFETY DATA SHEET**SECTION 1 - SOURCE/IDENTITY/USE INFORMATION****SUPPLIER**

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COMMON NAME: GC FUJIVEST POWDER
GC FUJIVEST II POWDER
GC FUJIVEST SUPER POWDER
GC FUJIVEST LOW EXPANSION POWDER
PressINvest POWDER

CHEMICAL NAME: N.A.

PRODUCT USE: Dental phosphate bonded investment material-powder component.

The following information is provided with regard to the toxicity and hazards of the pure components present in this portion of the unmixed powder/liquid system.

SECTION 2 - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

| COMPONENT | C.A.S. | EXPOSURE LIMITS | LD50/LC50 | % |
|--------------------------------------|------------|---|-----------|-------|
| Crystalline Silica | 14464-46-1 | TWA=0.05mg/m ³ (Respirable Dust) (ACGIH) | N.E. | 20-50 |
| Silica, Crystalline - Quartz | 14808-60-7 | TWA=0.1mg/m ³ (Respirable Dust) (ACGIH) | N.A. | 30-50 |
| Diammonium Hydrogenorthophosphate | | N.E. | N.E. | 5-10 |

SECTION 3 - PHYSICAL/CHEMICAL PROPERTIES

| | |
|--|--|
| BOILING POINT: N.A. | SPECIFIC GRAVITY (H₂O = 1): N.E. |
| VAPOR PRESSURE: N.A. | MELTING POINT: N.A. |
| VAPOR DENSITY: N.A. | EVAPORATION RATE: N.A. |
| SOLUBILITY IN WATER: N.E. | ODOR THRESHOLD: N.E. |
| COEFFICIENT OF OIL/WATER DISTRIBUTION: N.E. | APPEARANCE AND ODOR: White powder, odorless |

SECTION 4 - FIRE AND EXPLOSION DATA

FLASH POINT: Not flammable
FLAMMABLE LIMITS: N.A.
EXTINGUISHING MEDIA: Material is not combustible. Use extinguishing media appropriate to the surrounding area.
SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus with a full face piece operated in pressure-demand or other positive pressure mode.
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE
HAZARDOUS COMBUSTION PRODUCTS: N.A.

SECTION 5 - REACTIVITY DATA

STABILITY: Stable ☒ Unstable ☐
POLYMERIZATION: Will Not Occur ☒ Will Occur ☐

CONDITIONS TO AVOID: N.A.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing chemicals, strong bases, strong acids.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: Contains Ammonium Phosphate which when heated to decomposition emits very toxic fumes of NO_x, NH₃, and PO_x.

SECTION 6 - HEALTH HAZARD DATA and FIRST AID INFORMATION

| | YES | NO | NE | NA | NTP | IARC | OSHA | OTHER |
|---------------------|-----|----|----|----|-----|----------|------|-----------------|
| MUTAGENIC AFFECTS | | X | | | | | | |
| TERATOGENIC AFFECTS | | X | | | | | | |
| REPRODUCTIVE TOXIN | | X | | | | | | |
| CARCINOGENICITY | X | | | | X | Group 2A | | Calif. Prop. 65 |
| SENSITIZER | | X | | | | | | |

ROUTES OF ENTRY: Inhalation ☒ Skin ☒ Ingestion ☒

HEALTH HAZARD (Acute and Chronic): Contains crystalline silica, which is considered a hazard by inhalation. IARC has classified it as a probable carcinogenic for humans. Crystalline silica is also a known cause of silicosis, a non-cancerous lung disease.

CALIFORNIA PROP 65 WARNING: This product contains crystalline silica, a chemical known to the State of California to cause cancer.

SIGNS AND SYMPTOMS OF OVEREXPOSURE: Irritation and soreness in eyes, throat, and nose.

CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Individuals with pre-existing conditions of the lungs may have increased susceptibility to the toxicity of excessive exposures.

EMERGENCY FIRST AID PROCEDURES:

INHALATION: If symptoms are experienced, remove victim to fresh air. If symptoms persist, obtain medical attention.

INGESTION: Have victim rinse mouth with water. DO NOT induce vomiting. If vomiting occurs naturally, rinse mouth and give water. If symptoms persist, obtain medical advice.

SKIN: If irritation occurs, wash gently and thoroughly with lukewarm water and non-abrasive soap. If irritation persists, obtain medical advice.

EYES: If irritation occurs, immediately flush the contaminated eye(s) with lukewarm, gently flowing water for at least 10 minutes. If irritation persists, obtain medical advice.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

IN CASE OF RELEASE OR SPILL: Scrape up and discard into clean, labeled containers.

WASTE DISPOSAL METHOD: Comply with Federal, State, and local regulations. If approved, may be transferred to a land disposal site.

STORAGE, HANDLING, AND SPECIAL PRECAUTIONS: Product should be handled so as to minimize the amount of airborne dust. Store in sealed containers in a cool, dry area away from incompatible materials. Protect containers from damage or breakage.

SECTION 8 - CONTROL MEASURES

RESPIRATORY PROTECTION: Where there is potential for inhalation exposure to product dust, mist, or aerosols in excess of exposure limits, wear NIOSH/MSHA approved respiratory protection.

VENTILATION: Local Exhaust: YES Mechanical: N.E. Special: N.E. Other: N.E.

PROTECTIVE GLOVES: Rubber gloves

EYE PROTECTION: Safety glasses or goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: N.A.

WORK/HYGIENIC PRACTICE: Observe good hygienic practices

SECTION 9 - PREPARATION INFORMATION

This data is supplied to comply with OSHA Hazard Communication Standard 29 CFR 1910.1200 and W.H.M.I.S. CPR

PREPARED BY: T. L. Joritz
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DATE: 02 September 2004

N.A. = NOT APPLICABLE

N.E. = NOT ESTABLISHED

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