

# MATERIAL SAFETY DATA SHEET

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## SECTION I – Product/Company Information

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**1.1 Product Trade Name:** Accu-Cast 880  
**1.2 Part (Item) Number:** 880  
**1.3 Company Name:** Accu-Dent Research & Development Company, Inc.  
**1.4 Address:** 687 Brian Way, Medford, OR 97501  
**1.5 Emergency Telephone Number:** (800) 424-9300 (Chemtrec)  
**1.6 Telephone Number for Information:** (800) 533-6825 (8:00 AM – 7:00 PM Eastern Time)  
**1.7 Date Prepared:** 1/15/91 Dated Revised: 8/8/01

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## SECTION II - Hazardous Ingredients/Identity Information

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<u>Hazardous Components</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Crystalline Silica - Cristobalite	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>
Crystalline Silica - Quartz	0.05 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>
Amorphous Silica - Diatomaceous Earth	1.2 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Calcium Sulfate	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Tetrasodium Pyrophosphate	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Potassium Alginate (As nuisance dust)	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

**Warning: This product contains silica, crystalline (airborne particles of respirable size) which is known by the State of California to cause cancer.**

### OTHER INFORMATION:

Product contains *Ultramarine Blue Extender* from Seltzer Chemical as colorant.

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## SECTION III - Physical/Chemical Characteristics

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**3.1 Boiling point:** N.A.  
**3.2 Vapor pressure:** N.A.  
**3.3 Vapor density:** N.A.  
**3.4 Solubility in water:** Partially Soluble  
**3.5 Appearance and odor:** Dry fluffy powder, blue in color, no flavor or odor additive  
**3.6 Specific Gravity:** 0.3 g/cm<sup>3</sup>  
**3.7 Melting point:** N.A.  
**3.8 Evaporation rate:** N.A.

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## SECTION IV - Fire and Explosion Hazard Data

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**4.1 Flash point (method used):** N.A.  
**4.2 Flammability (explosive limits):** LEL: N.A. UEL: N.A.  
**4.3 Extinguishing media:** N.A.

4.4 Special fire fighting procedures:	N.A.
4.5 Unusual fire and explosion hazards:	In common with most organic materials, this product should be treated as a combustible dust in the finely divided and suspended state.

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## SECTION V - Reactivity Data

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5.1 Stability:	Unstable:            Stable: X
5.2 Conditions to avoid (stability):	High humidity and water contamination will cause material to gel. Prolonged exposure to heat greater than 60°C (140°F)
5.3 Incompatibility (materials to avoid):	Hydrofluoric acid.
5.4 Hazardous decomposition or byproducts:	N.A.
5.5 Hazardous polymerization:	May occur:            Will not occur: X
5.6 Conditions to avoid (polymerization):	High humidity and prolonged heat greater than 60°C

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## SECTION VI - Health Hazard Data

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6.1 Route(s) of entry:	Inhalation?: Yes      Skin?: No      Ingestion?: Yes
6.2 Health hazards (acute and chronic):	Acute: Transitory upper respiratory irritation or eye irritation. Chronic: Inhalation of crystalline silica has been classified by IARC as carcinogenic for humans (Group 1). Inhalation of crystalline silica is also a known cause of silicosis, a non-cancerous lung disease caused by excessive exposure to crystalline silica. Respirable dust from this product may contain up to 50% free crystalline silica (Cristobalite). As such it represents a risk to the respiratory system. Long term, unprotected exposure to dust levels in excess of the TLV or PEL may cause lung disease (silicosis).
6.3 Carcinogenicity:	NTP?: Proposed      IARC monographs?: Yes (Group 1)      OSHA regulated?: Yes
6.4 Signs and symptoms of exposure:	Inhalation: Irritation and soreness in throat and nose. In extreme exposures some congestion may occur.      Eyes: Temporary irritation or inflammation. Not hazardous when ingested.
6.5 Medical conditions generally aggravated by exposure:	Pre-existing upper respiratory and lung diseases such as but not limited to bronchitis, emphysema, and asthma. Target organs: Lungs, Eyes.
6.6 Emergency first aid procedures:	Remove to fresh air. Drink water to clear throat and blow nose to evacuate dust. For eyes flush with copious amounts of water for 15 minutes. If irritation persists consult a physician.

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## SECTION VII - Precautions for safe handling and use

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7.1 Steps to be taken in case material is released or spilled:	Vacuum clean dust with equipment fitted with a HEPA filter. Use dust suppression such as water if sweeping is necessary. Sweep up spilled material and place in closed containers for disposal.
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- 7.2 Waste disposal methods: Dispose of in accordance with Federal, State and Local regulations.
- 7.3 Precautions to be taken in handling and storage: Minimize dust generation and accumulation. Avoid breathing dust, avoid contact with eyes. Close bags immediately after use. Continue to follow all MSDS/label warnings when handling empty containers. Observe normal warehouse handling procedures. Store in a cool dry area. Store away from foodstuffs and beverages.
- 7.4 Other precautions: The avoidance of any air contaminant is always a recommended practice. Adherence to work place ventilation standards is an assurance of general personnel health and comfort.

**SECTION VIII - Control Measures**

- 8.1 Respiratory protection: Recommended NIOSH approved nuisance dust mask. <10X PEL, use 3M 9900; <100X PEL, use MSA Ultra-Twin with H filter; <200X PEL, use MSA 01-00-06 with type C supplied air unit (continuous flow mode); or equivalent.
- 8.2 Ventilation: Use sufficient natural or mechanical ventilation to keep dust level below PEL.
- 8.3 Protective Gloves: Rubber Gloves
- 8.4 Eye protection: Goggles or safety glasses with sideshields.
- 8.5 Other protective clothing or equipment: Rubber apron.
- 8.6 Work/Hygienic practices: Avoid dusting when in use. Observe normal care when working with chemicals.

<b>NFPA HAZARD CLASSIFICATIONS</b>	
Health	2
Flammability	0
Reactivity	0
Specific Hazard	N.A.

NFPA – National Fire Protection Association  
 N.A. - Not Applicable  
 N.E. - Not Established

Questions? Call 1-541-618-8461

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