

AUG 10 1992

MATERIAL SAFETY DATA SHEET

ISSUE DATE: 11/85
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FORM NO.: 008

SECTION I - GENERAL INFORMATION

- 1.1 Product Trade Name.: Ultra-Vest(R), 552, 553, 555, 555D, 714, 924, 926, 965
- 1.2 Part (Item) Number.:
- 1.3 Chemical Name.....: Silicon Dioxide/Sulfate
- 1.4 Synonyms.....: Silica/Gypsum
- 1.5 Division Name.....: Ransom & Randolph
- Address.....: 120 W. Wayne St.
- City, State, Zip...: Maumee, OH 43537
- 1.6 Emergency Phone No.: 419/893-9497 1.12 National Stock No:
- 1.7 Phone No. for Info.: 419/893-9497 1.13 Specification No.:
- 1.14 Chemical Family...: Inorganic minerals
- 1.8 Date.....: 1.15 Type/Grade/Class.:
- 1.9 Dentsply Contact...: 1.16 NRC/EPA Number....:
- 1.10 Signature.....:
- 1.11 Formula.....: $SiO_2/Ca SO_4 \cdot 1/2 H_2O$

SECTION II - PRODUCT INGREDIENTS

Chemical Name (Ingredients)	CAS #	%	TLV mg/m3	OSHA PEL mg/m3
: Silica (quartz)	: 14808-60-7	:	: 0.1*	: 0.1*
:	:	:	: 10.0**	: 0.3**
: Silica (cristobalite)	: 14464-16-1	:	: 0.05*	: 0.05*
:	:	:	: 5.0**	: 0.15**
: Calcium Sulfate	: 7778-18-9	:	:	: 5.0*
:	:	:	: 10.0**	: 15.0**
:	:	:	:	:
:	:	:	:	:
:	:	:	:	:
:	:	:	:	:
:	:	:	:	:
:	:	:	:	:
:	:	:	:	:
* Respirable Dust	** Total Dust			

SECTION III - PHYSICAL PROPERTIES

- 3.1 Boiling Point.....: N/A
- 3.2 Vapor Pressure.....: N/A
- 3.3 Vapor Density.....: N/A
- 3.4 Critical Temp.....: N/A
- 3.5 Decomposition Temp.: N/A
- 3.6 Melting/Freezing Pt.: N/A
- 3.7 Solubility in Water: 1.5% by wt.
- 3.8 Critical Pressure...: N/A
- 3.9 Perm. Exp. Limit...: N/A
- 3.10 Appearance and Odor: N/A
- 3.11 Specific Gravity...: 2.5
- 3.12 pH.....: 6-8
- 3.13 Evaporation Rate...: N/A
- 3.14 Viscosity.....: N/A
- 3.15 % Volatile by Vol.: N/A
- 3.16 Magnetism.....: N/A
- 3.17 Autoignition Temp.: N/A
- 3.18 Corrosion Rate....: N/A
- 3.19 Molecular Weight...: Mixture

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

- 4.1 Flash Point (Method Used)...: N/A
- 4.2 Flammable (Explosion) Limits:
LEL: N/A UEL: N/A
- 4.3 Extinguishing Media - Water Spray : Y Carbon Dioxide: Y Foam: Y
Dry Chemical: Y Other: N/A
- 4.4 Special Fire Fighting Procedures and Equipment Avoid eye & skin contact: Y
Do not breathe fumes : Y

Other:

4.5 Unusual Fire and Explosion Hazards: None

SECTION V - HEALTH HAZARD DATA

5.1 Effects of Over Exposure: Avoid contact with eyes. Dust may be irritating. Inhalation of dust may result in irreversible lung damage, silicosis.

5.2 Emergency and First Aid Procedures. In case of eye contact GET MEDICAL ATTENTION! Flush with flowing water at least 15 minutes.

Eyes: Flush with water. If irritation persists, see a physician.

Skin: Wash with soap and water.

Inhalation: Move exposed individual to fresh air. Call a physician.

Ingestion: See a physician.

NEVER GIVE FLUIDS OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAVING CONVULSIONS!

5.3 Carcinogenicity: The International Agency For Research On Cancer in its publication, "IARC Monographs On The Evaluation Of Carcinogenic Risk To Humans - Silica And Some Silicates" - Volume 42, 1987, has concluded that there is sufficient evidence for the carcinogenicity of crystalline silica in experimental animals, and limited evidence of the carcinogenicity of crystalline silica in humans, and has, therefore, classified crystalline silica in group 2A of Probably Carcinogens. Not listed by NTP or OSHA.

5.4 Medical Conditions Aggravated: Lung and breathing disorders aggravated by dust.

5.5 Labels: Contains crystalline silica. Avoid breathing dust. May cause silicosis. May cause cancer based on animal data.

5.6 Transportation Regulations: No D.O.T. label required.

SECTION VI - REACTIVITY DATA

5.1 Stable: Y Unstable: N

5.2 Conditions to Avoid (Stability).....: None

5.3 Incompatibility (Materials to Avoid): None

5.4 Hazardous Decomposition Products.....: When heated to decomposition, it may emit fumes of SO_x.

5.5 Hazardous Polymerization Will Occur: N Will Not Occur: Y

5.6 Conditions to Avoid (Polymerization): N/A

SECTION VII - SPECIAL PRECAUTIONS AND SPILL OR LEAK PROCEDURES

7.1 Handling and Storage Precautions: Normal warehouse handling and storage.

7.2 Other Precautions: For industrial use only. Read technical data bulletin about this product prior to use.

- 7.3 Steps to be Taken in Case Material is Released or Spilled: Wet down with water to eliminate dust. Carefully sweep up and place in a suitable container for disposal. Avoid creating a dusty atmosphere.
- 7.4 Waste Disposal Procedure: Dispose of material as solid waste in a closed container. Follow all chemical pollution control regulations.
- 7.5 Neutralizing Agent: N/A

SECTION VIII - OCCUPATIONAL PROTECTION MEASURES

- 8.1 Respiratory Protection: American Optical Respirator #50048, R90N Filter, #51062 Filter Cover.
- 8.2 Ventilation Local Exhaust: Recommended Mechanical (General): Required
 Special: N/A Other: N/A
- 8.3 Protective Gloves.....: Y
- 8.4 Eye Protection-not normally necessary but recommended: Y
Chemical Workers Goggles: Y Other: N/A
- 8.5 Other Personal Protective Equipment: Eye wash and shower.

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Attachment: