

## MATERIAL SAFETY DATA SHEET

IDENTITY (As Used on Label and List)		QUIK SEAL 7
<b>Section I</b>		
Manufacturer's Name Arrow Enterprises, Inc.	Emergency Telephone Number 616-247-7877	
Address (Number, Street, City, State, and ZIP Code) 2017 Eastern, SE Grand Rapids, MI 49510	Telephone Number for Information 616-247-7877	
	Date Prepared August 31, 1988	
	Signature of Preparer (optional)	

Section II - Hazardous Ingredients/Identity Information				
Hazardous Components (Specific Chemical Identity/Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Crystalline Quartz CAS# 14808-60-7	N/A	N/A	*	2-6%
Total Dust (Quartz)	$\frac{30\text{mg}/\text{m}^3}{\%SiO_2+2} = 3\text{mg}/\text{m}^3$	N/A	N/A	N/A
Respirable Crystalline Quartz present (TWA)	$\frac{10\text{mg}/\text{m}^3}{\%SiO_2+2} = 1\text{mg}/\text{m}^3$	0.1mg/m <sup>3</sup> TWA	NIOSH 50ug/m <sup>3</sup> TWA	2%
Respirable Crystalline Quartz proposed (TWA)	0.1mg/m <sup>3</sup>	50ug/m <sup>3</sup> TWA	N/A	N/A
Total Nuisance Dust	15mg/m <sup>3</sup>	10mg/m <sup>3</sup>	N/A	N/A
Respirable Nuisance Dust	5mg/m <sup>3</sup>	5mg/m <sup>3</sup>	N/A	N/A

**\*WARNING:** This clay product contains a small amount of crystalline silica which may cause delayed respiratory disease if inhaled over a prolonged period of time. Avoid breathing dust. Use NIOSH/MSHA approved respirator where TLV for crystalline silica may be exceeded. IARC Monographs on the evaluation of the Carcinogenic Risk of Chemicals to Humans (volume 42, 1987) concludes that there is "limited evidence" of the carcinogenicity of crystalline silica to humans. IARC classification

Section III - Physical/Chemical Characteristics			
Boiling Point	n/a	Specific Gravity (H <sub>2</sub> O = 1)	2.5
Vapor Pressure (mm Hg.)	n/a	Melting Point	n/a
Vapor Density (AIR = 1)	n/a	Evaporation Rate (Butyl Acetate = 1)	n/a
Solubility in Water	Negligible		
Appearance and Odor	Pale grey to buff powder or granules, odorless		

Section IV - Fire and Explosion Hazard Data			
Flash Point (Method Used)	n/a	Flammable Limits	n/a
		LEL	--
		UEL	--
Extinguishing Media	n/a		

Special Fire Fighting Procedures	Inorganic Mineral/Non-Flammable
Unusual Fire and Explosion Hazards	n/a

### Section V - Reactivity Data

Stability	Unstable		Conditions to Avoid	None Known
	Stable	X		

Incompatibility (Materials to Avoid) None Known

Hazardous Decomposition or Byproducts None Known

Hazardous Polymerization	May Occur		Conditions to Avoid	None Known
	Will Not Occur	X		

### Section VI - Health Hazard Data

Route(s) of Entry: Inhalation? Yes      Skin? No      Ingestion? No

Health Hazards (Acute and Chronic) May cause delayed respiratory disease if dust inhaled over a prolonged period of time.

Carcinogenicity: NTP? NO      IARC Monographs? Yes      OSHA Regulated? No

Signs and Symptoms of Exposure Excessive inhalation of dust may result in shortness of breath and reduced pulmonary function.

Medical Conditions Generally Aggravated by Exposure Individuals with pulmonary and/or respiratory disease included but not limited to asthma and bronchitis should be precluded from exposure to dust.

Emergency and First Aid Procedures  
Eyes - Flush with water  
Gross inhalation of dust - Remove to fresh air; give oxygen or artificial respiration if necessary; get medical attention.

### Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled Vacuum if possible to avoid generating airborne dust. Avoid breathing dust. Wear an approved respirator. Avoid adding water, the product will become slippery when wet.

Waste Disposal Method Follow federal, state and local regulations for solid waste.

Precautions to Be Taken in Handling and Storing Avoid breathing dust, use NIOSH/MSHA approved respirator where TLV limits for Crystalline Silica may be exceeded.

Other Precautions Slippery when wet

### Section VIII - Control Measures

Respiratory Protection (Specify Type) OSHA standard 1910.134 or ANSI Z88.2-1980 specification

Ventilation	Local Exhaust	As appropriate	Special	None
	Mechanical (General)	As appropriate	Other	None

Protective Gloves Not Required      Eye Protection Recommended

Other Protective Clothing or Equipment None

Work/Hygiene/Maintenance Practices Use good housekeeping practices.