Arrow Enterprises, Inc.
P.O. Box 7453
Grand Rapids, MI 49510
(616) 247-7877

MATERIAL SAFETY DATA SHEET

IDENTITY *(As Used on Label and List)* QUIK SEAL 7

Section I

Manufacturer's Name: Arrow Enterprises, Inc.	Emergency Telephone Number: 616-247-7877
Address *(Number, Street, City, State, and ZIP Code)*: 2017 Eastern, SE	Telephone Number for Information: 616-247-7877
Grand Rapids, MI 49510	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) $\frac{30mg/m^3}{\%SiO_2+2}$ = $3mg/m^3$		N/A	N/A	N/A
Respirable Crystalline Quartz $\frac{10mg/m^3}{\%SiO_2+2}$ = $1mg/m^3$			NIOSH	
present (TWA)		$0.1mg/m^3$ TWA	$50ug/m^3$ TWA	2%
proposes (TWA)	$0.1mg/m^3$	$50ug/m^3$ TWA	N/A	N/A
Total Nuisance Dust	$15mg/m^3$	$10mg/m^3$	N/A	N/A
Respirable Nuisance Dust	$5mg/m^3$	$5mg/m^3$	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 2A

Section III — Physical/Chemical Characteristics

Boiling Point	n/a	Specific Gravity (H_2O = 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 including 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/Hygienic/Maintenance Practices: Use good houskeeping practices.