

MATERIAL SAFETY DATA SHEET

Glass Capillary Tubes

SECTION I – NAME AND PRODUCT

Manufactured for: Separation Technology, Inc. An EKF Diagnostics Company 570 Monroe Road, Suite 1008 Sanford, Florida 32771 (407) 788-8791 (407) 788-3677 (Fax)	Product Name: N51-A Chemical and Common Name: Borosilicate Glass Catalog Numbers: 270-109, 270-110, 270-300
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SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Component	CAS #	PEL(mg/M ³)	TLV(mg/M ³)	%(optional)
Silicon Dioxide	14808-60-7	N/A	N/A	72
Boron Oxide	1303-86-2	15	10	12
Aluminum Oxide	1344-28-1	N/A	10	7
Potassium Oxide	12136-45-7	N/A	N/A	2
Sodium Oxide	12401-86-4	N/A	N/A	6
Calcium Oxide	1305-78-8	5	2	1

SECTION III – PHYSICAL AND CHEMICAL COMPOSITION

Boiling Point:	N/A	Vapor Density (Air=1):	N/A
Melting Point:	N/A	Specific Gravity:	2.3
Vapor Pressure (mmHg):	N/A	Evaporation Rate:	N/A
Solubility in Water:	N/A		
pH:	N/A		
% Volatile:	N/A		
Appearance & Odor:	Clear glass; no odor.		

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A
Flammable Limits: LEL: N/A UEL: N/A
Extinguishing Media: Not combustible. Use same as for surrounding area.
Special Firefighting Procedures: Wear pressure demand self-contained breathing apparatus in conjunction with appropriate personal protective equipment.
Unusual Fire and Explosion Hazards: None

SECTION V – STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	None
Incompatibility (Materials to avoid):	Avoid contact with Hydrofluoric Acid.

Hazardous Decomposition of Byproducts:

If contacted by hydrofluoric acid, silicon tetrafluoride will be generated which is a corrosive gas.

Hazardous Polymerization:

Will not occur.

Although the individual chemicals that make up this product may be toxic, they present no health hazards when in the form of glass.

SECTION VI – HEALTH HAZARD DATA
(Acute and Chronic)

Routes of Entry:

If grinding/polishing - skin & eye contact; inhalation

Health Hazards (Acute and Chronic):

Although the individual chemicals that make up this product may be toxic, they present no health hazards when in the form of glass. Manufacture of glass involves high temperature fusion which renders ingredients inert. This product does contain silica in the form of Silicon Dioxide; grinding and polishing may create free silica dust. Repeated, prolonged exposure to free silica may cause cancer and silicosis. Silicosis will produce symptoms of cough and shortness of breath, developing gradually. Free silica particles on contact with the eye may cause a reaction that could damage vision. Symptoms would include a gradual clouding of vision. See First Aid below.

Carcinogenicity (of product):

NTP: No.
IARC Monographs: No
OSHA Regulated: No

Signs and Symptoms of Exposure:

Silicosis generally develops after years of repeated high exposure.

Medical Conditions generally aggravated by exposure:

None, unless heavy dust exposure is involved, in which case lung disease may be aggravated.

Emergency First Aid Procedures:

If dust or particles contact eye, flush with water, but do not attempt to remove particles. Seek immediate medical attention.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken if Case Material is Released or Spilled:

Sweep, shovel, or vacuum spilled material into a closed container. Avoid generation of dust.

Waste Disposal Method:

Dispose of in accordance with local, state, and/or Federal Regulations.

Precautions to be taken in Handling and Storing:

Store in dry, cool location.

Other Precautions: None

SECTION VIII – CONTROL MEASURES

Respiratory Protection (Type):		If necessary, wear NIOSH/MSHA approved respiratory protection for dusts, mists, or fumes. In almost any conditions of use, except heavy dust production, none is required.
Ventilation:	Local Exhaust:	General ventilation recommended under normal conditions of use.
	Special:	If active dust and/or fume generation occurs, local ventilation is recommended.
	Mechanical (General):	None
	Other:	None
Protective Gloves:		Recommended to prevent skin irritation if dust is involved or activity involves risk of breakage and cuts.
Eye Protection:		Required if dust generation or risk of breakage exists.
Other Protective Clothing or Equipment:		Consider exposed skin protection of arms to prevent cuts in event of breakage..
Work/Hygiene Practices:		Avoid inhalation of dusts/fumes. Prohibit consumption of food, beverages, and smoking in the work area.

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