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Material Certification

Material Type: Silicon Dioxide , SiO(2) Description: Pieces, 3 – 6 mm size , 50 grams KJLC Part Number: EVMSIO240B			Analysis Type: Typical, % by wt.	
		#	Lot Number: 575455 / 4-17-06	
Ac:	Cu:	N:	Sc:	2 2 3 4 8 = 2
Ag:	F:	Na:	Se:	
Al:	Fe:	Nb:	Si: Matrix	
Ar:	Ga:	Ne:	Sm:	
As:	Ge:	Ni:	Sn:	
At:	Н:	0:	Matrix Sr:	
Au:	He:	Os:	Ta:	
В:	Hf:	P:	Tb:	
Ba:	Hg:	Pb:	Te:	2
Be:	I:	Pd:	Ti: 0.0004	
Bi:	In:	Pt:	V:	
Br:	Ir:	Ra:	W:	200
C:	К:	Rb:	Y:	
Ca:	Kr:	Re:	Zn:	
Cd:	La:	Rh:	Zr:	
Cl:	Li:	Rn:		
Co:	Mg:	Ru:	£	
Cr:	Mn:	S:	:	
Cs:	Mo:	Sb:	:	

Materials Technician: John McElhattan Date: 4-17-06

MATERIAL SAFETY DATA SHEET

SILICON DIOXIDE

Section I

Kurt J. Lesker Company 1925 Worthington Avenue Clairton, PA 15025 Ph: 412/387-9200 Fax: 412/384-2573				
Chemical Name and Synonyms Silicon Dioxide		Date of Last Revis		te of Last Revision /06/06
Formula SiO ₂	Chemical Family fused silica		Ly	Chemical Abstract No. 60676-86-0
TSCA Listed				Calc. Molecular Wt. 60.08

Section II Hazardous Ingredients

Hazardous Ingredients	CAS #	%	TLV	OSHA PEL
silicon dioxide	60676-86-0	100	6mg/m³/cu.m (total dust 3mg/ m³ resp. dust)	0.80mg/cu.m crystal silicon

Section III Physical Data

Boiling Point (0°C): 22.30	Density (gmcc): 2.17-2.66 g/cm ³
Vapor Pressure: NA	% Volatile by Volume: NA
Reaction with Water: none	Evaporation Rate (H ₂ O -1): NA
Solubility in Water: insoluble	Melting Point (°C): 1610°C-1728°C
Appearance and Odor: colorless crystalline appearing solid, powder, pieces, no odor	Other Comments

Section IV Fire & Explosion Hazard Data

Flash Point (method) NA	Autoignition Temp.	Flammability non-flammable	LEI NA	UEI NA		
Extinguishing Media NA						
Special Fire Fighting Procedures None						
Unusual Fire and Explosion Hazards None						

Section V Spill or Leak Process

Steps to be Taken in Case Material is Released or Spilled Sweep or scoop us and remove.

Waste Disposal Method (Consult federal, state or local authorities

for proper disposal procedures.) Dispose of with normal refuse.

Health Hazard Data Section VI

Toxicity Data

ipr-rat LDLo: 400mg/kg iun-rabbit LD_{Lo}: 35 mg/kg

itr-rat LD_{LO}: 120mg/kg iun-cat LD_{Lo}: 15mg/kg ipr-mouse LD_{Lo}: 40mg/kg HMIS Hazard Rating

Health: 0

Flammability: 0 Reactivity: 0

Personal Protection: B

Route(s) of Entry

Inhalation

Skin

Ingestion

Effects of Overexposure (acute and chronic) Inhalation: A mild irritant. As an amorphous form, this SiO_2 is not

a cause of silicosis.

Dermal/Eye Contact: No effect on the skin or eye, and is non-toxic

to the skin

Other (specify): Non toxic via ingestion.

Medical Conditions Generally Aggravated by Exposure: ND

Carcinogenicity

NTP:

IARC Monographs

OSHA Regulations

None

Emergency and First Aid Procedures

Ingestion: Non-toxic

Inhalation: Remove to fresh air

Skin Contact: Brush off material. Flush with soap and water.

Eye Contact: Flush to remove particles.

None

Reactivity Data Section VII

Stability

Conditions Contributing to Instability

Stable: X

Unstable:

Incompatibility (materials to avoid): None

Hazardous Decomposition Products - Thermal and Other (list): None

Hazardous Polymerization

May Occur:

Will Not Occur: X

Conditions to Avoid

Section VIII Special Protective Information

Respiratory Protection (specify type). Use Only Niosh Approved Equip.

Any respirator approved for dusts, fumes, or mists

Ventilation (always maintain exposure below permissible limits)

Local Exhaust: recommended

Mechanical (general): Use with adequate ventilation

Special:

Other:

Protective Gloves: None needed

Eye Protection: Safety Glasses

Other Protective Equipment/Work Practices

Normal laboratory wear.

Special Precautions Section IX

Precautions to be Taken in Handling and Storing: None

Transportation Requirements DOT Class: Not classified

UN Number: N.C. IMCO Class: N.C.

Other:

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ND = NO DATA FOUND NA = NOT APPLICABLE