


Material Safety Data Sheet

No. SC3E-F-120

IDENTITY 5 x 3.2 FRIT LID (DWG No.A-009197-01)	
Section I	
Manufacturer's Name KYOCERA CORPORATION	Emergency Telephone Number (075)804-3500 Head Office(Japan)
Address 6 Tobadono-CHO, Takeda, Fushimi-KU, Kyoto 612-8501 Japan.	Telephone Number For Information (075)804-3500 Head Office(Japan)
	Date Prepared Feb.21.2006
Contact Point: K.Noto Title: Engineering department manager of COMMUNICATION COMPONENTS DIVISION	Signature of Prepare 

Section II - Hazardous Ingredient/Identity Information

Hazardous Components	CAS NO.	ACGIH	Wt%6
Aluminum oxide	Al ₂ O ₃ 1344-28-1	TLV:10mg/m ³	Above 53
Titanium oxide	TiO ₂ 13463-87-7	TLV:10mg/m ³	Below 4
Chromium oxide	Cr ₂ O ₃ 1308-38-8	TLV:0.5mg/m ³ (as Cr)	Below 2
Manganese oxide	MnO ₂ 1313-13-9	TLV:0.2mg/m ³ (as Mn)	Below 3
Cobalt oxide	Co ₃ O ₄ 1308-06-1	TLV:0.02mg/m ³ (as Co)	Below 0.5
Silicon oxide	SiO ₂ 14808-60-7	TLV:0.1mg/m ³ (as Powder)	Below 3
Magnesium oxide	MgO 1309-48-4	TLV:10mg/m ³ (as Fume)	Below 0.5
Iron oxide	Fe ₂ O ₃ 1309-37-1	TLV:5mg/m ³ (as Fe)	Below 2
Calcium oxide	CaO 1305-78-8	TLV:2mg/m ³	Below 0.5
Lead oxide	PbO 1317-38-8	TLV:0.05mg/m ³ (as Pb)	Below 18
Lead fluoride	PbF ₂ 7783-46-2	TLV:0.05mg/m ³ (as Pb)	Below 8
Niobium oxide	Nb ₂ O ₅ 1313-86-8	-	Below 2
Bismuth oxide	Bi ₂ O ₃ 1304-78-3	-	Below 3
Zinc oxide	ZnO 1314-13-2	TLV:10mg/m ³ (as dust)	Below 2
Copper oxide	CuO 1317-38-0	TLV:1mg/m ³ (as dust)	Below 1
Boron oxide	B ₂ O ₃ 1303-86-2	TLV:10mg/m ³	Below 2

Section III -Physical/Chemical Characteristics

Boiling Point	Not applicable	Specific Gravity	Not applicable
Vapor Pressure	Not applicable	Softening Point	275°C(Seal Glass)
Vapor Density	Not applicable	Evaporation Rate	Not applicable
Solubility in Water	Insoluble		
Appearance and Odor	Black(Ceramics),Bottle green(Seal Glass) and no smell		

Section IV -Fire and Explosion Hazard Data

Flash Point(Method Used)	Not applicable	Flammable Limits	Not applicable
Extinguishing Media	Not applicable		
Special Fire Fighting Procedures	None		
Unusual Fire and Explosion	Not combustible,but seal glass forms lead fume.		

Section V -Reactive Data

Stability	Unstable		Condition to Avoid
	Stable	x	

Incompatibility

Hazardous Decomposition or Byproducts	None		
Hazardous	May Occur		Condition to Avoid
Polymerization	Will Not Occur	x	

Section VI -Health Hazard Data

Route(s) of Entry	Inhalation?	Skin?	Ingestion?
	Will Not Occur	Will Not Occur	Will Not Occur

Health Hazards(Acute and Chronic)

Not applicable.

Carcinogenicity	NTP?	IARC Monographs?	OSHA Regulated?
	Not applicable	Not applicable	Not applicable

Signs and Symptoms of Exposure Not applicable**Medical Condition Generally Aggravated by Exposure**

Not applicable

Emergency and First Procedures

First hold the eyelids open and flush the eyes with plenty of fresh water.

Then take a doctor.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Collect the material into a container for disposal.

Waste Disposal Method

Waste material can be disposed to bury according to Federal, State and Local Regulations.

Precaution to be Taken in Handling and Storing

Handling:

Do not drop material. Do not knock materials alternately or against hard solids.

Use gloves in case of touching to materials directly.

Storing: Indoor storage in dry condition. Keep apart from strong acids

Section VIII - Control Measure

Respiratory Protection (Specific Type)

Extra personal protection: P2 filter respirator for harmful particles, in case of heating in air

Ventilation	Local Exhaust	Special
	Maintain levels below ACGIH.	Not applicable
	Mechanical (General)	Other
	Not applicable	Not applicable

Protective Gloves

Use gloves

Eye Protection

Use safety goggles, in case of heating in air.

Other Protective Clothing or Equipment

Unnecessary

Work/Hygiene Practices

Depending on the degree of exposure, periodic medical examination is indicated.

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確認人員: Q/A

