

MATERIAL SAFETY DATA SHEET

SECTION 1 GENERAL INFORMATION

Manufacturer: SCHOTT Nexterion AG
 Address: Hattenbergstr. 10, D – 55122 Mainz
 Phone: +49(0)6131 66-25036

Product Name: Nexterion Slide A+
 Chemical Name: Aminosilane Coated Borosilicate Glass
 C.A.S. Number: None
 Date effective: 01.04.2004

SECTION 2 Composition/information on ingredients

Chemical Name	Percent	Reg.* (Y/N)	Cas#	OSHA (PEL)	ACGIH (TLV)	Carc. (Y/N)
Silica	75 – 85	Y	014808607	0.1mg/m ³	0.1mg/m ³	N
Boron Oxide	10 – 20	Y	001303862	15mg/m ³	10mg/m ³	N
Alumina	1 – 5	Y	001344281	15mg/m ³	10mg/m ³	N
Sodium Oxide	1 – 5	N	1313593	N/A	N/A	N
Potassium Oxide	0 – 2	N	12136457	N/A	N/A	N

*Regulated as per lists: OSHA 29CFR 1910 Subpart Z; ACGIH; NTP and IARC

One glass slide contains approximately 1.3 to 1.4 x10³ mol amine groups per m² surface area.

SECTION 3 Physical data

Boiling Point: not applicable
 Vapor Pressure: not applicable
 Vapor Density: not applicable
 Solubility in Water: not applicable
 Specific gravity: 2.2 – 2.3 g/cm³
 Melting Range: 510 – 550°C
 Physical State: solid with a density between 2.2 to 2.3 g/cm³
 Appearance and odor: in plates with various thickness, no odor

SECTION 4 Fire and explosion hazard data

Flash Point:	not applicable
Auto Ignition Temperature:	not applicable
Flammable Limits % Vol. in Air:	not applicable
Extinguishing Media:	non-combustible material
Special Fire Fighting Procedures:	Use extinguishing media that is appropriate for the classification of surrounding fire. Inorganic glass is non-combustible.
Unusual Fire and Explosion Hazards:	There is the possibility of flying glass fragments if hot glass comes in contact with water or carbon dioxide extinguishing media.

SECTION 5 Health hazard data

Inhalation:	Acute: Respiratory irritation. Chronic: Possible pneumoconiosis effects
Ingestion:	Ingestion's may cause vomiting, diarrhea, depressed circulation and in severe cases shock, coma, paralysis and cyanosis.
Skin:	Ground glass particles and dust may cause irritation.
Eye:	May cause irritation.
First Aid:	Inhalation: Remove to fresh air. Seek medical attention. Ingestion: Seek medical attention. Skin: Wash wit soap and water. Seek medical attention if irritation permits. Eye: Flush well with running water. Seek medical attention if irritation permits.

SECTION 6 Spill, leak and disposal

Spill or Leak Procedures:	No special precautions.
Waste Disposal:	Follow Federal State and local regulations.

SECTION 7 Special protection information

Engineering Controls:	Use local exhaust ventilation, hood or equipment enclosure to avoid dispersal of fibrous or other glass particulars into the workplace air.
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Personal Protective Equipment: Respiratory - if glass dust or particulars are above the OSHA permissible exposure limits use a NIOSH approved respirator for dust and fibers. Eye protection – industrial safety glasses that meet ANSI Z87 standards. Protective gloves – recommended gloves for protection from sharp edges.

SECTION 8 **Special precautions and comments**

Reactivity: Borosilicate glass is a stable material. As a particular chemically resistant glass it is inert to many chemicals (including acidic and basic solutions), but it may react to hot, strong alkaline solutions and – like all glasses - with concentrated very aggressive hydrofluoric and phosphoric acids. Hazardous decomposition or byproducts may emit metal oxide fumes when heated to high temperatures.

Comments: Inorganic borosilicate glass is an amorphous, inorganic, usually transparent or translucent substance, consisting of a mixture of silicates, alkaline components, and/or borates formed by fusion of silica and various types of oxides with a flux and a stabilizer into a mass that cools to a rigid condition without crystallization.

SECTION 9 **Special precautions and comments**

The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Abbreviations used:

ACGIH: American Conference of Governmental Industrial Hygienists
 CERCLA: Comprehensive Environmental Response, Compensation and Liability Act
 CFR: Code of Federal Regulations
 DSL: Canadian Domestic Substance List
 EPA: Environmental Protection Agency
 HEPA: high Efficiency Particulate Air
 HMIS: Hazardous Material Identification System
 IARC International Agency for Research on Cancer
 NDSL: Non Canadian Domestic Substance List
 NFPA: National Fire Protection Association
 NIOSH: National Institute of Occupational Safety and Health
 NTP: National Toxicology Program
 OSHA: Occupational Safety and Health Administration
 RCRA: Resource Conservation and Recovery Act
 RQ: Reportable Quantities
 SARA: Superfund Amendments and Reauthorization Act
 TLV: Threshold Limit Value
 TPQ: Threshold Planning Quantity
 TSCA: Toxic Substance Control Act
 WHMIS: workplace Hazardous Materials Information System