

## ***Material Safety Data Sheet***

Identity: Boron Nitride

Formula: BN

### SECTION I - GENERAL INFORMATION

Manufacturer: [Stanford Advanced Materials](#) (SAM)

The information below is believed to be accurate and represents the best information available to SAM. However, SAM makes no warranty, expressed or implied with respect to such information and assumes no liability resulting from its use.

### SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Chemical Family: Nitrides

Hazardous Components	CAS #	OSHA PEL	ACGIH TLV	%
Boron Nitride	10043-11-5	15mg/m <sup>3</sup>	10mg/m <sup>3</sup>	95-100

### SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Physical States: Solid

Boiling Point: NA

Vapor Pressure: NA

Melting Point: NA

Vapor Density: NA

Evaporation Rate: N/A

Percent Volatile: NA

Solubility in water: insoluble

Specific Gravity (water=1): 1.8 - 2.1

*Appearance and odor:* Colorless white reshaped solid

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA:

Flash Point: NA

Autoignition Temp: NA

Flammable Limits: NA

Extinguishing Media:

Use extinguishing agent suitable for type of surrounding fire.

*Special Fire Fighting Procedures:*

Firefighters must wear full face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Fumes from fire are hazardous. Isolate runoff to prevent environmental pollution.

*Unusual Fire and Explosion Hazards:*

Does not give a flash point by conventional test methods.

SECTION V - REACTIVITY DATA
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*Stability:* Stable

*Conditions to Avoid (stability):* Contact with strong oxidizers.

*Incompatibility:* Materials to Avoid:

*Hazardous Decomposition or Byproducts:*

*Hazardous Polymerization:*

*Conditions to avoid (hazardous polymerization):*

SECTION VI - HEALTH HAZARD DATA
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*Routes of entry:* Inhalation? Yes      Skin? Yes      Eyes? Yes      Ingestion? Yes      Other? No

*Health Hazards (Acute and Chronic):*

*Emergency and First Aid Procedures:*

*Inhalation:* Remove victim to fresh air; keep warm and quiet; give oxygen if breathing is difficult and seek medical attention if symptoms persist.

*Ingestion:* Do NOT induce vomiting.

*Skin:* Remove contaminated clothing; brush material off skin; was affected area with mild soap and water; seek medical attention if symptoms persist.

*Eye:* Flush eyes with lukewarm, water, lifting upper and lower eyelids, for a least 15 minutes. See medical attention if symptoms persist.

*Skin:* Remove contaminated clothing, brush material off skin, wash affected area with mild soap and water, and seek medical attention if symptoms persist

*Eye:* Flush eyes with lukewarm water, lifting upper and lower eyelids for at least 15 minutes and seek medical attention.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

*Steps to be taken in case material is released or spilled:*

Wear appropriate respiratory and protective equipment specified in section VIII. Isolate spill area, provide ventilation and extinguish sources of ignition. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for proper disposal. Take care not to raise dust.

*Waste disposal method:*

Dispose of in accordance with state, local, and federal regulations.

*Hazard Label Information:*

Store in cool, dry area and in tightly sealed container. Wash thoroughly after handling.

SECTION VIII - CONTROL MEASURES

*Protective Equipment Summary (Hazard Label Information):*

NIOSH/MSHA approved respirator, impervious gloves, safety glasses, clothes to prevent contact.

*Ventilation:*

Local Exhaust: To maintain concentration at low exposure levels.

Mechanical (General): Recommended.

*Protective Gloves:* Rubber gloves

*Eye Protection:* Safety glasses.

*Other Protective Clothing or Equipment:* Protective gear suitable to prevent contamination.

*Work/Hygienic/Maintenance Practices:*

Implement engineering and work practice controls to reduce and maintain concentration of exposure at low levels. Use good housekeeping and sanitation practices. Do not use tobacco or food in work area. Wash thoroughly before eating or smoking. Do not blow dust off clothing or skin with compressed air.

Please be advised that N/A can either mean Not Applicable or No Data Has Been Established