



## (Material) Safety Data Sheet

### SECTION 1 - IDENTIFICATION

**Product Name:** TRÈS BN Boron Nitride Powder  
**Product Code:** PUHPxxxxxx (Where x = any digit 0 – 9, OR any letter A – Z, OR blank.), TBN16  
**MSDS Manufacturer Number:** 100  
**Product Use/Restriction:** Additive in cosmetics and skin care formulations. Not intended for food and drug use.  
**Manufacturer Name:** Saint-Gobain Advanced Ceramics Corporation  
**Address:** Boron Nitride  
168 Creekside Drive  
Amherst, NY 14228-2027  
**General Phone Number:** (716) 691-2000  
**General Fax Number:** (716) 691-2090  
**Emergency Phone Number:** 1-800-424-9300 (CHEMTREC)  
**CHEMTREC:** For emergencies in the US, call CHEMTREC: 800-424-9300  
**Canutec:** In Canada, call CANUTEC: (613) 996-6666 (call collect)  
**Website:** [www.bn.saint-gobain.com](http://www.bn.saint-gobain.com)  
**MSDS Creation Date:** July 13, 2009  
**MSDS Revision Date:** June 15, 2013

### SECTION 2 - HAZARD(S) IDENTIFICATION

**GHS Class:** GHS Category 5  
**Emergency Overview:** CAUTION! Exposure to dust may be irritating to eyes, nose and throat.  
**Route of Exposure:** Eyes. Skin. Inhalation. Ingestion.  
**Potential Health Effects:**  
**Eye:** May cause eye irritation.  
**Skin:** May cause skin irritation.  
**Inhalation:** Inhalation of dusts from this product may cause temporary mechanical irritation of the nose, throat and respiratory tract.  
**Ingestion:** Ingestion can cause nausea, vomiting, diarrhea and gastrointestinal irritation.

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Ingredient Percent
Boron Nitride	10043-11-5	97-100 %
Boron Oxide	1303-86-2	0-0.2 %

### SECTION 4 - FIRST AID MEASURES

**Eye Contact:** Immediately flush eyes with plenty of water for 15 to 20 minutes. Get medical attention, if irritation or symptoms of overexposure persists.  
**Skin Contact:** Immediately wash skin with plenty of soap and water for 15 to 20 minutes, while removing contaminated clothing and shoes. Get medical attention if irritation develops or persists.  
**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.  
**Ingestion:** If swallowed, do NOT induce vomiting. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

## SECTION 5 - FIRE FIGHTING MEASURES

Flammable Properties:	Non Flammable.
Flash Point:	No information.
Flash Point Method:	Not applicable.
Auto Ignition Temperature:	No information.
Lower Flammable/Explosive Limit:	Not applicable.
Upper Flammable/Explosive Limit:	Not applicable.
Extinguishing Media:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Protective Equipment:	As in any fire, wear Self-Contained Breathing Apparatus (SCBA), MSHA/NIOSH (approved or equivalent) and full protective gear.
Hazardous Combustion Byproducts:	Decomposition of this product may yield oxides of boron and nitrogen. Decomposition of boron nitride occurs at 2204 °C (4000 °F).

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personnel Precautions:	Use proper personal protective equipment as listed in section 8.
Environmental Precautions:	Avoid runoff into storm sewers, ditches, and waterways.
Methods for containment:	This material will settle out of the air.
Methods for cleanup:	Shovel or sweep up for re-use or disposal. Avoid creating dusty conditions. Provide ventilation. Clean up spills immediately observing precautions in the protective equipment section.

## SECTION 7 - HANDLING and STORAGE

Handling:	For industrial use only. Handle with care. Avoid dust formation. Do not breathe dust or spray mist.
Storage:	Store in a cool, dry, well ventilated area away from sources of heat and incompatible materials. Keep container tightly closed when not in use.
Hygiene Practices:	Wash thoroughly after handling.

## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION - EXPOSURE GUIDELINES

Engineering Controls:	Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
Eye/Face Protection:	Safety glasses with side-shields.
Skin Protection Description:	Normal work clothing (long sleeved shirt, long pants, and gloves) is recommended.
Hand Protection Description:	Use impervious gloves.
Respiratory Protection:	If ventilation is not sufficient to effectively prevent buildup of dusts, appropriate NIOSH respiratory protection must be provided. Consult the NIOSH web site ( <a href="http://www.cdc.gov/niosh/npptl/topics/respirators/disp_part">http://www.cdc.gov/niosh/npptl/topics/respirators/disp_part</a> ) for a list of dust respirator types and approved suppliers.
Other Protective:	Follow good industrial hygiene practices when handling this material.

### EXPOSURE GUIDELINES

#### **Boron Oxide:**

Guideline ACGIH:	TLV-TWA: 10 mg/m <sup>3</sup>
Guideline OSHA:	PEL-TWA: 15 mg/m <sup>3</sup> Total particulate/dust (T)
Guideline NIOSH:	: 2000 mg/m <sup>3</sup>
British Columbia Canada :	OEL-TWA: 10 mg/m <sup>3</sup>
Quebec Canada :	VEMP-TWA: 10 mg/m <sup>3</sup>

## SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

Physical State:	Powder.
Color:	White to off-white.
Odor:	Little to no odor. Slight ammonia odor.
Boiling Point:	Not determined.
Melting Point:	Not determined.
Specific Gravity:	1.8 - 2.1
Solubility:	Insoluble in water.
Vapor Density:	Not applicable.
Vapor Pressure:	Not applicable.
Percent Volatile:	Not applicable.
Evaporation Rate:	Not applicable.
Evaporation Point:	Not applicable.
pH:	Not applicable.
Molecular Weight:	Mixture
Viscosity:	Not applicable.
Flash Point:	No information.
Flash Point Method:	Not applicable.
Auto Ignition Temperature:	No information.

## SECTION 10 - STABILITY and REACTIVITY

Chemical Stability:	Stable under normal conditions.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions.
Incompatible Materials:	This product may react with strong acids or oxidizing agents.
Special Decomposition Products:	Decomposition of this product may yield oxides of boron and nitrogen. Decomposition of boron nitride occurs at 2204 °C (4000 °F).

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Boron Nitride :

Skin: Administration onto the skin - Rabbit LD : >20 mL/kg [Details of toxic effects not reported other than lethal dose value]

### Boron Oxide :

Eye: Eye - Rabbit Standard Draize test.: 50 mg

Skin: Administration onto the skin - Rabbit Standard Draize test.: 1 gm

Ingestion: Oral - Rat LD50: 3150 mg/kg [Details of toxic effects not reported other than lethal dose value]  
Oral - Mouse LD50: 3163 mg/kg [Details of toxic effects not reported other than lethal dose value]

## SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity:	No ecotoxicity data was found for the product.
Environmental Fate:	No environmental information found for this product.

## SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with Local, State, Federal and Provincial regulations.

## SECTION 14 - TRANSPORT INFORMATION

DOT Shipping Name:	Not Regulated.
DOT UN Number:	Not Regulated.
IATA:	Not Regulated.

IATA Pictograms

**Not  
Regulated**

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## SECTION 15 - REGULATORY INFORMATION

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**Risk Phrases:** R36/37/38 - Irritating to eyes, respiratory system and skin.  
**Safety Phrase:** S22 - Do not breathe dust.  
S37/39 - Wear suitable gloves and eye/face protection.

### **Boron Nitride :**

**TSCA Inventory Status:** Listed  
**EINECS Number:** 233-136-6  
**Canada DSL:** Listed  
**South Korea KECL:** Listed: KECI Number - KE-03535  
**Australia AICS:** Listed: Assessed by NICNAS: No

### **Boron Oxide :**

**TSCA Inventory Status:** Listed  
**EINECS Number:** 215-125-8  
**Massachusetts:** Listed  
**Pennsylvania:** Listed  
**Canada DSL:** Listed  
**Canada IDL:** Identified under the Canadian Hazardous Products Act Ingredient Disclosure List: 0.1%.205(228)  
**South Korea KECL:** Listed: KECI Number - KE-09919  
**Australia AICS:** Listed: Assessed by NICNAS: No

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## SECTION 16 - ADDITIONAL INFORMATION

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**HMIS Health Hazard:** 1  
**HMIS Fire Hazard:** 1  
**HMIS Reactivity:** 0  
**HMIS Personal Protection:** X  
**MSDS Creation Date:** July 13, 2009  
**MSDS Revision Date:** June 15, 2015