



Safety Data Sheet

Section 1: Identification

Product Identifier • **Boron Nitride Powder**

Product Name • **L'EAU BN™**

Synonyms • LEAU3002; LEAU500

Relevant identified uses of the substance or mixture and uses advised against

Recommended use • Additive in cosmetics and skin care formulations

Restrictions on use • Not intended for food and drug use

Details of the supplier of the safety data sheet

Manufacturer • Saint-Gobain Advanced Ceramics Corporation Boron Nitride
168 Creekside Drive
Amherst, NY 14228-2027
United States
www.bn.saint-gobain.com

Telephone (General) • 716-691-2000

Telephone (General) • 716-691-2018 - EHS

Emergency telephone number

• 800-424-9300 - CHEMTREC

Section 2: Hazard Identification

GHS Category 5

Label elements

Hazard statements • No label element(s) required

Other hazards

• This product is not considered hazardous under the U.S. OSHA 29 CFR 1910.1200 HazardCommunicationStandard.

Canada

According to WHMIS

Classification of the substance or mixture

- WHMIS**
- Not classified
Classification criteria not met

Label elements

- WHMIS**
- No label element(s) required

Other hazards

- WHMIS**
- In Canada, the product mentioned above does not meet the criteria to be considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients**Substances**

- Material does not meet the criteria of a substance.

Mixtures

Non-Hazardous Components					
Chemical Name	Identifiers	%(weight)	LD50/LC50	Classifications According to Regulation/Directive	Comments
Boron Nitride	CAS: 10043-11-5 EINECS: 233-136-6	93% TO 98%	NDA	OSHA HCS 2012: Not Classified - Classification criteria not met	NDA
(Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer	CAS: 68938-54-5	2% TO 4%	NDA	OSHA HCS 2012: Not Classified - Data Lacking	NDA

See Section 11 for Toxicological Information.

Section 4: First-Aid Measures**Description of first aid measures****Inhalation**

- Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Skin

- In case of contact with substance, immediately flush skin with running water for at least 20 minutes.

Eye

- In case of contact with substance, immediately flush eyes with running water for at least 20 minutes.

Ingestion

- Do NOT induce vomiting. Rinse mouth. Do not give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

- Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

See Section 2 for Potential Health Effects.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media • Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media • None known.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • Material is non-combustible and is not expected to pose a fire or explosion hazard.

Hazardous Combustion Products • Decomposition of this product may yield oxides of boron and nitrogen. Decomposition of boron nitride occurs at 2204 °C (4000 °F).

Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions • Take proper precautions to minimize exposure by using appropriate personal protective equipment.

Emergency Procedures • No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended.

Environmental precautions

- Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures • Avoid generating dust.
SMALL DRY SPILLS: With clean shovel place material into clean, dry container and cover loosely; move containers from spill area.
LARGE SPILLS: Cover powder spill with plastic sheet or tarp to minimize spreading.

Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

Section 7 - Handling and Storage

Precautions for safe handling

Handling • Avoid creating dusts. Do not breathe dust. Do not use in areas without adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Storage • Store in a cool, dry and well-ventilated place away from sources of heat and incompatible materials. Keep container tightly closed when not in use.

Incompatible Materials or • This product may react with strong acids or oxidizing agents.

Ignition Sources
Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines						
	Result	ACGIH	Canada British Columbia	Canada Manitoba	Canada New Brunswick	Canada Northwest Territories
L'EAU BN™ as Particulates not otherwise classified (PNOC)	TWAs	10 mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles, recommended) <i>as Particulates not otherwise classified (PNOC)</i>	10 mg/m3 TWA (total dust); 3 mg/m3 TWA (respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	10 mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles, recommended) <i>as Particulates not otherwise classified (PNOC)</i>	3 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction); 10 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, inhalable fraction) <i>as Particulates not otherwise classified (PNOC)</i>	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass) <i>as Particulates not otherwise classified (PNOC)</i>
Exposure Limits/Guidelines (Con't.)						
	Result	Canada Nova Scotia	Canada Nunavut	Canada Ontario	Canada Quebec	OSHA
L'EAU BN™ as Particulates not otherwise classified (PNOC)	TWAs	10 mg/m3 TWA (inhalable particles, recommended); 3 mg/m3 TWA (respirable particles, recommended) <i>as Particulates not otherwise classified (PNOC)</i>	5 mg/m3 TWA (respirable mass); 10 mg/m3 TWA (total mass) <i>as Particulates not otherwise classified (PNOC)</i>	10 mg/m3 TWA (inhalable particulate); 3 mg/m3 TWA (respirable particulate) <i>as Particulates not otherwise classified (PNOC)</i>	10 mg/m3 TWAEV (including dust, inert or nuisance particulates; containing no Asbestos and <1% Crystalline silica, total dust) <i>as Particulates not otherwise classified (PNOC)</i>	15 mg/m3 TWA (total dust); 5 mg/m3 TWA (respirable fraction) <i>as Particulates not otherwise classified (PNOC)</i>

Exposure controls

Engineering Measures/Controls

- Dilution ventilation. Adequate ventilation systems as needed to control concentrations of airborne contaminants below applicable threshold limit values.

Personal Protective Equipment

Pictograms



Respiratory

- Follow the OSHA respirator regulations found in 29 CFR 1910.134. Use a NIOSH/MSHA approved respirator if exposure limits are exceeded or symptoms are experienced. For limited exposure use an N95 dust mask. For prolonged exposure use an air-purifying respirator with high efficiency particulate air (HEPA) filters.

Eye/Face

- Safety glasses with side shields should be worn at a minimum.

- Hands**
- Wear appropriate gloves.
- Skin/Body**
- Wear long sleeves and/or protective coveralls.
- General Industrial Hygiene Considerations**
- Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.
- Environmental Exposure Controls**
- Follow best practice for site management and disposal of waste.

Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

MSHA = Mine Safety and Health Administration

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limits are based on 15-minute exposures

TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)

TWAEV = Time-Weighted Average Exposure Value

TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Solid	Appearance/Description	White to off-white powder with little to no odor.
Color	White to off-white.	Odor	Little to none.
Taste	Data lacking	Particulate Type	Dust
Particulate Size	Data lacking	Aerosol Type	Not relevant
Odor Threshold	Data lacking	Physical and Chemical Properties	Data lacking
General Properties			
Boiling Point	Data lacking	Melting Point	Data lacking
Decomposition Temperature	Data lacking	Heat of Decomposition	Data lacking
pH	Not relevant	Specific Gravity/Relative Density	1.8 to 2.1 Water=1
Density	15.021 to 17.5245 lbs/gal	Bulk Density	Data lacking
Water Solubility	Insoluble	Solvent Solubility	Data lacking
Viscosity	Data lacking	Explosive Properties	Not relevant.
Oxidizing Properties:	Not relevant.		
Volatility			
Vapor Pressure	Data lacking	Vapor Density	Data lacking
Evaporation Rate	Data lacking	VOC (Wt.)	Data lacking
VOC (Vol.)	Data lacking	Volatiles (Wt.)	Data lacking
Volatiles (Vol.)	Data lacking		
Flammability			
Flash Point	Not relevant	UEL	Not relevant
LEL	Not relevant	Autoignition	Data lacking
Self-Accelerating Decomposition Temperature	Data lacking	Heat of Combustion (ΔH_c)	Data lacking

(SADT)			
Burning Time	Data lacking	Flame Duration	Data lacking
Flame Height	Data lacking	Flame Extension	Data lacking
Ignition Distance	Data lacking	Flammability (solid, gas)	Data lacking
Environmental			
Half-Life	Data lacking	Octanol/Water Partition coefficient	Data lacking
Coefficient of water/oil distribution	Data lacking	Bioaccumulation Factor	Data lacking
Bioconcentration Factor	Data lacking	Biochemical Oxygen Demand BOD/BOD5	Data lacking
Chemical Oxygen Demand	Data lacking	Persistence	Data lacking
Degradation	Data lacking		
Other Information			
<ul style="list-style-type: none"> No additional physical and chemical parameters noted. 			

Section 10: Stability and Reactivity

Reactivity

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Extreme heat, sparks, and open flame. Incompatible materials, oxidizers and oxidizing conditions.

Incompatible materials

- Strong acids and strong oxidizing agents.

Hazardous 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

Information on toxicological effects

Component Name	CAS	Data
Boron Nitride (93% TO 98%)	10043-11-5	Acute Toxicity: orl-rat LD :>50 gm/kg; ihl-rat TCLo:100 mg/m ³ /4H/28W-l; skn-rbt LD :>20 mL/kg
GHS Properties		Classification
Acute toxicity		OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard		OSHA HCS 2012 • Classification criteria not met
Carcinogenicity		OSHA HCS 2012 • Classification criteria not met

Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	OSHA HCS 2012 • Classification criteria not met
Skin sensitization	OSHA HCS 2012 • Classification criteria not met
STOT-RE	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
Route(s) of entry/exposure	<ul style="list-style-type: none"> ● Inhalation, Skin, Eye, Ingestion
Medical Conditions Aggravated by Exposure	<ul style="list-style-type: none"> ● Disorders of the lungs.
Potential Health Effects	

Inhalation**Acute (Immediate)**

- Exposure to dust may cause irritation. Nuisance dust may affect the lungs but reactions are typically reversible.

Chronic (Delayed)

- Repeated and prolonged exposure to dust may cause lung effects including pneumoconiosis.

Skin**Acute (Immediate)**

- Exposure to dust may cause mechanical irritation.

Chronic (Delayed)

- No data available.

Eye**Acute (Immediate)**

- Exposure to dust may cause mechanical irritation.

Chronic (Delayed)

- No data available.

Ingestion**Acute (Immediate)**

- Exposure to dust may cause irritation.

Chronic (Delayed)

- No data available.

Key to abbreviations

LD = Lethal Dose

TC = Toxic Concentration

Section 12 - Ecological Information**Toxicity**

- Material data lacking.

Persistence and degradability

- Material data lacking.

Bioaccumulative potential

- Material data lacking.

Mobility in Soil

- Material data lacking.

Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

Other adverse effects

Ecological Fate

- Material data lacking.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	NDA

Special precautions for user • No special precautions.

IATA Pictograms

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • Not relevant.

Not Regulated

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • None

State Right To Know

Component	CAS	MA	NJ	PA
Boron Nitride	10043-11-5	No	No	No
(Dimethylsiloxane)-(Ethylene Oxide) Block Copolymer	68938-54-5	No	No	No

Inventory

Component	CAS	Canada DSL	Canada NDSL	China	TSCA
Boron Nitride	10043-11-5	Yes	No	Yes	Yes
(Dimethylsiloxane)-(Ethylene Oxide) Block Copolymer	68938-54-5	Yes	No	Yes	Yes

Canada

Labor

Canada - WHMIS - Classifications of Substances

- | | | | |
|--|------------|------------|------------|
| • (Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer | 68938-54-5 | 2% TO 4% | Not Listed |
| • Boron Nitride | 10043-11-5 | 93% TO 98% | Not Listed |

Canada - WHMIS - Ingredient Disclosure List

- | | | | |
|--|------------|------------|------------|
| • (Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer | 68938-54-5 | 2% TO 4% | Not Listed |
| • Boron Nitride | 10043-11-5 | 93% TO 98% | Not Listed |

Environment

Canada - CEPA - Priority Substances List

- | | | | |
|--|------------|------------|------------|
| • (Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer | 68938-54-5 | 2% TO 4% | Not Listed |
| • Boron Nitride | 10043-11-5 | 93% TO 98% | Not Listed |

China

Other

China - Annex I & II - Controlled Chemicals Lists

- | | | | |
|--|------------|------------|------------|
| • (Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer | 68938-54-5 | 2% TO 4% | Not Listed |
| • Boron Nitride | 10043-11-5 | 93% TO 98% | Not Listed |

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

- | | | | |
|--|------------|------------|------------|
| • (Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer | 68938-54-5 | 2% TO 4% | Not Listed |
| • Boron Nitride | 10043-11-5 | 93% TO 98% | Not Listed |

U.S. - OSHA - Specifically Regulated Chemicals

- | | | | |
|--|------------|------------|------------|
| • (Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer | 68938-54-5 | 2% TO 4% | Not Listed |
| • Boron Nitride | 10043-11-5 | 93% TO 98% | Not Listed |

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

- | | | | |
|--|------------|----------|------------|
| • (Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer | 68938-54-5 | 2% TO 4% | Not Listed |
|--|------------|----------|------------|

- Boron Nitride 10043-11-5 93% TO 98% Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

- (Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer 68938-54-5 2% TO 4% Not Listed
- Boron Nitride 10043-11-5 93% TO 98% Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

- (Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer 68938-54-5 2% TO 4% Not Listed
- Boron Nitride 10043-11-5 93% TO 98% Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

- (Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer 68938-54-5 2% TO 4% Not Listed
- Boron Nitride 10043-11-5 93% TO 98% Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

- (Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer 68938-54-5 2% TO 4% Not Listed
- Boron Nitride 10043-11-5 93% TO 98% Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

- (Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer 68938-54-5 2% TO 4% Not Listed
- Boron Nitride 10043-11-5 93% TO 98% Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

- (Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer 68938-54-5 2% TO 4% Not Listed
- Boron Nitride 10043-11-5 93% TO 98% Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

- (Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer 68938-54-5 2% TO 4% Not Listed
- Boron Nitride 10043-11-5 93% TO 98% Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

- (Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer 68938-54-5 2% TO 4% Not Listed

- Boron Nitride 10043-11-5 93% TO 98% Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

- (Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer 68938-54-5 2% TO 4% Not Listed
- Boron Nitride 10043-11-5 93% TO 98% Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

- (Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer 68938-54-5 2% TO 4% Not Listed
- Boron Nitride 10043-11-5 93% TO 98% Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

- (Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer 68938-54-5 2% TO 4% Not Listed
- Boron Nitride 10043-11-5 93% TO 98% Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

- (Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer 68938-54-5 2% TO 4% Not Listed
- Boron Nitride 10043-11-5 93% TO 98% Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

- (Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer 68938-54-5 2% TO 4% Not Listed
- Boron Nitride 10043-11-5 93% TO 98% Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

- (Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer 68938-54-5 2% TO 4% Not Listed
- Boron Nitride 10043-11-5 93% TO 98% Not Listed

United States - Rhode Island

Labor

U.S. - Rhode Island - Hazardous Substance List

- (Dimethylsiloxane)- (Ethylene Oxide) Block Copolymer 68938-54-5 2% TO 4% Not Listed
- Boron Nitride 10043-11-5 93% TO 98% Not Listed

Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.
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Section 16 - Other Information

Last Revision Date ● 01/August/2012

Preparation Date ● 15/June/2015

Disclaimer/Statement of Liability ● Reasonable care has been taken in the preparation of this information, but the supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Material Safety Data Sheet before handling product.

Key to abbreviations

NDA = No Data Available
