

Material Safety Data Sheet

Material Name: Tres BN Boron Nitride Cosmetic Powders

ID: MSDS-100A

Issue Date: 08/07/01

*** Section 1 - Chemical Product and Company Identification ***

Part Number: PUHP1106, PUHP1107

Chemical Name: Boron Nitride Powder, dimethicone/methicone

Product Use: Cosmetic application. Not intended for food and drug use.

Manufacturer Information

Saint-Gobain Advanced Ceramics Corporation

Boron Nitride

168 Creekside Drive

Amherst, NY 14428-2027

Phone: (716) 691-2000

Fax: (716) 691-2090

Emergency # 1-800-424-9300 (CHEMTREC)

NOTE: CHEMTREC emergency telephone number is to be used in the event of chemical emergencies involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to customer service.

*** Section 2 - Composition / Information on Ingredients ***

CAS #	Component	Percent
10043-11-5	Boron nitride (BN)	95-97
63148-62-9	Poly(dimethylsiloxane)	0-5
63148-57-2	Siloxanes and Silicones, methyl hydrogen	0-5

Component Information/Information on Non-Hazardous Components

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication). Exact composition of products will vary with each individual product. All ingredients listed above may not always be included in final product.

*** Section 3 - Hazards Identification ***

Emergency Overview

This is a non-flammable, non-reactive solid material. It is supplied in the form of an odorless, white powder. Exposure to dust may be irritating to eyes, nose and throat. Product may form explosive dust/air mixtures if high concentration of product dust is suspended in air. If heated over 300 degrees F, toxic and irritating formaldehyde vapors may be released.

Potential Health Effects: Eyes

Dust or powder may irritate eye tissue. Vapors released during thermal processing may cause eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Potential Health Effects: Skin

Dust or powder may irritate the skin. Vapors released during thermal processing may cause skin irritation.

Potential Health Effects: Ingestion

Ingestion of this product may cause nausea, vomiting and diarrhea.

Potential Health Effects: Inhalation

This product contains polysiloxane compounds which may generate formaldehyde vapors when exposed to temperatures exceeding 300 degrees F in the presence of air. Formaldehyde is a potential cancer hazard, causes irritation and sensitization of the skin and respiratory system, causes eye and throat irritation and is acutely toxic.

HMIS Ratings: Health: 1 Fire: 1 Reactivity: 0 Pers. Prot.: Safety glasses, gloves

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 4 - First Aid Measures ***

First Aid: Eyes

Flush immediately with water for at least 15 minutes. Do not rub eyes. If irritation persists get medical attention.

First Aid: Skin

For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

First Aid: Inhalation

If gas/fume/vapor/dust/mist from the material is inhaled, remove the affected person immediately to fresh air. If respiratory irritation occurs, if breathing becomes difficult, or if other symptoms develop, seek medical attention immediately.

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First Aid: Notes to Physician

None.

*** Section 5 - Fire Fighting Measures ***

Flash Point: Not available

Method Used: Not available

Upper Flammable Limit (UFL): Not available

Lower Flammable Limit (LFL): Not available

Auto Ignition: Not available

Flammability Classification: Non-flammable

Rate of Burning: Not available

General Fire Hazards

High concentration of airborne dust may form explosive mixture with air.

Hazardous Combustion Products

Decomposition of this product may yield oxides of boron and nitrogen. Polysiloxane compounds may release silicates and formaldehyde upon decomposition.

Extinguishing Media

Use methods for the surrounding fire.

Fire Fighting Equipment/Instructions

Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Stop the flow of material, if this is without risk.

Clean-Up Procedures

Sweep up or gather material and place in appropriate container for disposal. Wet down spilled material with water to avoid generating airborne dusts.

Evacuation Procedures

None necessary.

Special Procedures

Avoid inhalation of dust from the spilled material. Follow all Local, State, Federal and Provincial regulations for disposal.

*** Section 7 - Handling and Storage ***

Handling Procedures

As with all chemicals, good industrial hygiene practices should be followed when handling this material. Special care must be taken to avoid inhalation exposure when using this product at high temperatures (above 300 degrees F). Wash thoroughly after handling. Use this product with adequate ventilation. Keep formation of airborne dusts to a minimum. Not for food and drug use.

Storage Procedures

Store in a cool, dry area away from moisture and excessive heat.

*** Section 8 - Exposure Controls / Personal Protection ***

Exposure Guidelines

A: General Product Information

Keep formation of airborne dusts to a minimum. If product is heated to decomposition, irritating formaldehyde vapors may be released. Vapor concentrations should be monitored and controlled in accordance with 29 CFR 1910.1048.

B: Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

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C: Exposure Limits for Chemicals which may be Generated During Processing:

Formaldehyde (50-00-0)

ACGIH: C 0.3 ppm

OSHA: 0.75 ppm TWA PEL; 2 ppm STEL; 0.5 ppm TWA action level; Irritant and potential cancer hazard (29 CFR 1910.1048)

NIOSH: 0.016 ppm TWA; NIOSH Potential Occupational Carcinogen - see Appendix A
C 0.1 ppm (15 min)

Engineering Controls

Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear safety glasses; chemical goggles for fumes which may arise from thermal processing.

Personal Protective Equipment: Skin

Normal work clothing (long sleeved shirts and long pants) is recommended. Use impervious gloves.

Personal Protective Equipment: Respiratory

When dusts or thermal processing fumes are generated and ventilation is not sufficient to effectively remove them, appropriate NIOSH approved respiratory protection must be provided.

Personal Protective Equipment: General

In areas where thermal processing occurs, levels of hazardous decomposition products, particularly formaldehyde, should be monitored and appropriate workplace exposure standards enforced.

*** Section 9 - Physical & Chemical Properties ***

Appearance:	White powder	Odor:	Odorless
Physical State:	solid	pH:	Not available
Vapor Pressure:	Not applicable	Vapor Density:	Not applicable
Boiling Point:	Not applicable	Melting Point:	Not applicable
Solubility (H2O):	Insoluble	Specific Gravity:	1.8 - 2.1
Evaporation Rate:	Not applicable	Viscosity:	Not applicable
Percent Volatile:	Not applicable	Molecular Weight:	Mixture

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable under normal conditions.

Chemical Stability: Conditions to Avoid

Avoid dispersion of dust in air. Avoid excessive heat and ignition sources.

Incompatibility

This product may react with strong acids or oxidizing agents.

Hazardous Decomposition

Thermal decomposition products may include oxides of boron and nitrogen. Decomposition of boron nitride occurs at 2204 C (4000 F). Upon decomposition polysiloxanes may release silicates and formaldehyde.

Hazardous Polymerization

Will not occur.

*** Section 11 - Toxicological Information ***

Acute and Chronic Toxicity

A: General Product Information

This product is considered a nuisance dust. Excessive airborne concentrations of nuisance dusts may cause irritation to skin or mucous membranes by chemical or mechanical action. Asthma and chronic respiratory conditions may be aggravated by exposure to this product. Exposure to boron nitride has not been shown to result in boron poisoning. Under normal operating conditions or thermal decomposition, boron nitride has not been shown to liberate free boron.

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B: Component Analysis - LD50/LC50

Poly(dimethylsiloxane) (63148-62-9)

VX6390000:Slyterm XLT (10/1/97)

Oral LD50 Rat : >17 gm/kg

Dermal LD50 Rabbit : >2 gm/kg

Carcinogenicity

A: General Product Information

No information available.

B: Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.

Epidemiology

No information available.

Neurotoxicity

No information available.

Mutagenicity

No information available.

Teratogenicity

No information available.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No information available.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

No ecotoxicity data are available for this product's components.

Environmental Fate

No information available.

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Waste must be handled in accordance with all federal, state, provincial, and local regulations.

*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Not regulated as dangerous goods.

Additional Info.: None.

International Transportation Regulations

No additional information available.

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

No information available.

B: Component Analysis

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), or CERCLA (40 CFR 302.4).

State Regulations

A: General Product Information

Other state regulations may apply. Check individual state requirements.

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B: Component Analysis - State

None of this product's components are listed on the state lists from CA, FL, MA, MN, NJ, or PA.

Other Regulations

A: General Product Information

No additional information available.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL	EINECS
Boron nitride (BN)	10043-11-5	Yes	Yes	Yes
Siloxanes and Silicones, methyl hydrogen	63148-57-2	Yes	Yes	No
Poly(dimethylsiloxane)	63148-62-9	Yes	Yes	No

C: Component Analysis - WHMIS IDL

No components are listed in the WHMIS IDL.

* * * Section 16 - Other Information * * *

Other Information

Reasonable care has been taken in the preparation of this information, but the manufacturer makes no warranty of merchantability or any other warranty, expressed or implied, with respect to this information. The manufacturer makes no representations and assumes no liability for any direct, incidental or consequential damages resulting from its use.

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists. AICS = Australian Inventory of Chemical Substances. CAS = Chemical Abstract Service. CERCLA = Comprehensive Environmental Response, Compensation and Liability Act. CFR = Code of Federal Regulations. CHEMTREC = Chemical Transportation Emergency Center. DSL = Canadian Domestic Substance List. EINECS = European Inventory of New and Existing Chemical Substances. EPA = Environmental Protection Agency. HEPA = High Efficiency Particulate Air. HMIS = Hazardous Materials Identification System. IARC = International Agency for Research on Cancer. IDLH = Immediately Dangerous to Life and Health. NDSL = Canadian Non-Domestic Substance List. NFPA = National Fire Protection Association. NIOSH = National Institute of Occupational Safety and Health. NJTSR = New Jersey Trade Secret Registry. NTP = National Toxicology Program. OSHA = Occupational Safety and Health Administration. NA = Not available or Not Applicable. SARA = Superfund Amendments and Reauthorization Act. TDG = Transportation of Dangerous Goods. TLV = Threshold Limit Value. TSCA = Toxic Substances Control Act. WHMIS = Workplace Hazardous Materials Information System.

Contact: Technical Service

Contact Phone: (716) 691-2052

This is the end of MSDS # MSDS-100A