


Safety Data Sheet

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1. IDENTIFICATION	
Product: Boron Nitride Spray, PN 202418.001	MSDS #: 901515.001
Product Use: For laboratory use only.	Date: Rev B, May 6, 2014

2. HAZARDS IDENTIFICATION:
 Classification & labeling according to GHS, OSHA, and Table 3.1 Annex VI of regulation 1272/2008/EU, as amended:
 Classification: Hazard Class and Category: Flammable gas, Category 1 (gases under pressure); Flammable liquid, Category 2; Serious eye damage/eye irritation, Category 2; Specific target organ toxicity after single exposure, Category 3.



GHS/CLP/OSHA Label Elements: Pictogram(s): Signal Word(s): Danger. Hazard statement(s): Extremely flammable gas. Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness. Precautionary statements(s): Use only in a well ventilated area. Keep away from sources of ignition - No smoking.

A white, flammable, solvent based paint of boron nitride packaged in an aerosol spray can using a compressed flammable gas propellant.. Contents under pressure. The small quantities supplied in our products are unlikely to cause severe or immediate health effects. Use only as directed and in accordance with safe laboratory practices.

3. COMPOSITION/INFORMATION ON INGREDIENTS:				EXPOSURE LIMITS		
CHEMICAL INGREDIENT NAME	CAS NUMBER	EC NUMBER	% by Weight	OSHA	ACGIH	EU IOELV
Boron Nitride	10043-11-5	233-136-6	15-20	NA	NA	NA
Ethanol	64-17-5	200-578-6	15-20	1000 ppm	1000 ppm STEL	NA
Acetone	67-64-1	200-662-2	30-35	1000 ppm	500 ppm; 750 ppm STEL	500 ppm
Propane	74-98-6	200-827-9	10-15	1000 ppm	NA	NA
Butane	106-97-8	203-448-7	10-15	NA	1000 ppm STEL	NA

Notes: Product is provided in a 13 ounce aerosol can; for use only with our instruments to prevent laser energy transmission through samples. Exposure Limits are 8-Hour TWA. (Time Weighted Average) unless designated C (Ceiling) or STEL (Short Term Exposure Limit).

4. FIRST AID MEASURES:
 Inhalation: Remove to fresh air.
 Skin Contact: Wash thoroughly with mild soap and water.
 Eye Contact: Immediately flush with water for a minimum of 15 minutes.
 Ingestion: If conscious, drink 1 – 2 glasses of water to dilute. Do not induce vomiting. Get medical attention.
 After following first aid measures, seek medical attention.

5. FIRE-FIGHTING MEASURES:
 Flammable Properties: Flammable liquid and gas. Vapors are heavier than air and may travel to sources of ignition and flash back.
 Extinguishing Media: Dry chemical, carbon dioxide or appropriate foam.
 Unique Aspects Contributing To a Fire: None.
 Special Fire Fighting Procedures: Aerosol cans can rupture violently from heat developed pressure.
 Note: As in any fire, wear self-contained breathing apparatus, and full protective gear.

6. ACCIDENTAL RELEASE MEASURES: Spills from aerosol cans are unlikely and generally of small volume. Ventilate the area well. Remove all sources of ignition. Absorb with spill pillow or other absorbent. Place wastes into closed containers for proper disposal.

7. HANDLING AND STORAGE: Avoid heat, static electricity, or any source of ignition. Do not store in sunlight or heat over 120 °F (49°C). High temperatures may cause bursting. Contents are under pressure. Do not puncture or incinerate. Do not spray into open flame or onto hot surfaces. Use only as directed and in accordance with safe laboratory practices.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION:
 Handle in accordance with safe laboratory practices.
 Respiratory Protection: Not normally needed. If exposure limits are exceeded, use approved respirator.
 Eye Protection: Safety glasses with side protection.
 Skin Protection: Not normally needed. Disposable latex rubber gloves are acceptable for light intermittent exposure.
 Engineering Controls: Work in a fume hood or use general or other local exhaust ventilation to meet Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance: White spray paint

Physical State: Liquid in aerosol can	Flash Point: Propellant: -73 °F (-55 °C)	Vapor Pressure: NA
Odor: Alcohol/acetone	Explosion Limits: Propellant: 1.9 - 9.5	Vapor Density (air=1): > 1
pH: NA	Boiling Point: Propellant: -44 °F (-43 °C)	Solubility in Water: No
Specific Gravity: 1.61 g/cc	Melting Point: NA	Other: Percent volatile: 80-90%

10. STABILITY AND REACTIVITY:

Hazardous Polymerization Will Not Occur May Occur
 Stability: Stable

<u>Hazardous Decomposition/Combustion Products:</u> Oxides of carbon.	<u>Conditions & Materials to Avoid:</u> Caustics, oxidizers, heat, flame, sparks, red hot metal.
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11. TOXICOLOGICAL INFORMATION:

Primary Route(s) of Exposure under Normal Use: Inhalation.

Target Organ(s): Respiratory system, central nervous system.

Acute Effects: Spray and vapor are irritating to skin, eyes and upper respiratory tract. May cause headache or dizziness. May aggravate asthma and other chronic respiratory conditions.

Boron Nitride: oral, rat lethal dose :>50 gm/kg.

Acetone: inhalation, rat LC50: 50100 mg/m3/8H.

Chronic Effects: NA

Other Information: Chemical Ingredient(s) not classified as carcinogen(s) by OSHA, IARC, NTP, ACGIH, or California.

12. ECOLOGICAL INFORMATION: NA

13. DISPOSAL CONSIDERATIONS: Consult state, local or national regulations for proper disposal. Do not incinerate aerosol cans. The U.S. Environmental Protection Agency (EPA) classifies unused product as hazardous waste.

14. TRANSPORT INFORMATION:

<u>IATA/ICAO:</u> Shipping Name: Consumer Commodity Hazard Class: 9 UN/NA #: 8000 Packing Group #: 2	IMDG: Aerosols, UN 1950 ADR: NA
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15. REGULATORY INFORMATION:

U.S. TOSCA: Constituents listed.

Canada: This product has been classified according to the hazard criteria of the Controlled Product Registration (CPR) and this SDS contains all the information required by the CPR.

16. OTHER INFORMATION:

<u>U.S. EPA</u>	National Fire Protection Association Rating		
<u>SARA 313 Chemicals</u>	<u>CERCLA RQ</u>	4=Severe Hazard	HEALTH NA
Acetone	5000	3=Serious Hazard	FLAMMABILITY NA
		2=Moderate Hazard	REACTIVITY NA
		1=Slight Hazard	OTHER NA
		0=Minimal Hazard	

Notes, abbreviations and acronyms:

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| ACGIH: American Conference of Governmental Industrial Hygienists | GHS: Globally Harmonized System of Classification and Labeling of Chemicals |
| ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road | IATA: International Air Transport Association |
| CAS: Chemical Abstracts Service (division of the American Chemical Society) | IMDG: International Maritime Code for Dangerous Goods |
| EC: European Commission | NA: Not Available. |
| EU IOELV: European Union Indicative Occupational Exposure Limit Values | OSHA: Occupational Safety and Health Administration |

For laboratory use only. Not for drug, household or other uses.

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