



SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name BN Glass Release Spray
Product Code 1123

Safety Data Sheet Supplier Information:

Manufacturer ZYP Coatings, Inc.
 120 Valley Court
 Oak Ridge, TN 37830
 www.zypcoatings.com

Telephone (General) (865) 482-5717 8:30 AM - 5:00 PM EST.
Emergency Telephone Number (800) 255-3924 – ChemTel
 (813) 248-0585 Outside of US – Call Collect

2. HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

Signal Word Warning

SYMBOL(S)



PRIMARY ROUTES OF EXPOSURE Inhalation and contact to the eyes.

HAZARD STATEMENTS

Eye Irritant	Category 2B	H320	Causes eye irritation
STOT:SE	Category 3	H335	May cause respiratory irritation.

PRECAUTIONARY STATEMENT(S)

P261	Avoid breathing dust / fume / gas / mist / vapors / spray.
P264	Wash hands thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor / physician if you feel unwell.
P337 + P313	If eye irritation persists: Get medical advice/ attention.
P403 + P233	Store in well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container in accordance with local/ regional/



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national/ international regulations.

Health 1
Fire 0
Reactivity 0



3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Hazard Components		Wt.%
	Identifiers		
Water	CAS No.	7732-18-5	20-30
Boron Nitride	CAS No.	10043-11-5	20-30
Proprietary Trade Secret	CAS No.	Mixture	1-2

4. FIRST AID MEASURES

EYES	Flush eyes, including under the eyelids, with large amounts of water. If irritation persists, seek medical attention.
SKIN	Wash thoroughly with mild soap and water.
INGESTION	Give copious amounts of water and seek medical attention.
INHALATION	Remove to fresh air. Seek medical attention if symptoms persist.

5. FIRE FIGHTING MEASURES

Extinguishing Media	This water-based refractory coating is non-combustible. Use extinguishing media appropriate to the surrounding fire.
Flammability Classification	Non-flammable.
Special Hazards Arising from the Chemical	None known.
Hazardous Combustion Products	None.
Specific Protective Equipment and Precautions (Firefighters)	As in any fire, wear self-contained breathing apparatus (SCBA), NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES



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Personal Precautions, Protective Equipment and Emergency Procedures	Clean up personnel should wear protective gloves and goggles to prevent possible irritation from prolonged contact. Contain the spill by using an absorbent material.
Environmental Precautions	Do not allow product to reach sewage system or any water course.
Methods and Materials For Containment and Cleaning Up	No special measures are required; refer to environmental and personal precautions, and other sections of this document.

7. HANDLING AND STORAGE

SAFE HANDLING PRECAUTIONS	Boron Nitride is slippery, and is considered a slip hazard if spilt on a walkway. Practice good housekeeping. Note exposure controls and personal protection (section 8).
SAFE STORAGE PRECAUTIONS	Store in original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits/Guidelines

Engineering Measures/Controls	Provide adequate ventilation to control dust or vapors below the regulated exposure limits (PEL and TLV).
Personal Protective Equipment	Protective clothing should be selected specifically for the workplace, depending on the concentration and quality of the hazardous substances handled. The chemical resistance of the protective gear should be inquired from the respective supplier.
Respiratory	An appropriate NIOSH-approved respirator must be worn if exposure is likely to exceed the lowest TLV/PEL rated regulations.
Eye/Face	Safety goggles or side-shielded safety glasses are recommended for any type of industrial handling.
Hands	Use impervious gloves.
Skin/Body	Normal work clothing. Note that long sleeved shirts, long pants and gloves are recommended.

Exposure Guidelines

Boron Nitride	Guideline ACGIH (TLV):	None established (treat as nuisance dust) 10 mg/m ³ (Total dust) 5 mg/m ³ (Respirable fraction)
	Guideline OSHA (PEL):	None established (treat as nuisance dust) 15 mg/m ³ (Total dust)



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5 mg/m³ (Respirable fraction)

Proprietary Trade Secret	Guideline ACGIH (TLV):	0.02 mg/m ³
	Guideline OSHA (PEL):	0.1 mg/m ³

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	Odor	None
Color	White	Vapor Pressure	10-20 mmHg
Specific Gravity	1.1	Vapor Density	Greater than air (Air=1)
pH	7-8	Solubility in Water	Dilutable
Viscosity	8-20 cps	Freezing Point	0° C (32° F)
Melting Point	n. ap.	Boiling Point	100° C (212° F)
VOC Content	0 g/L	Percent Volatile	75% -85%
Molecular Weight	n. ap.	Flash Point	n. ap.
Evaporation Rate	About that of water	Flash Point Method	n. ap.

10. STABILITY AND REACTIVITY

Chemical Stability	This water-based refractory coating is stable under all normal conditions of storage. Hazardous polymerization will not occur.
Incompatible Materials	None known, but as a good practice, do not mix with other chemicals.
Conditions To Avoid	None known.
Hazardous Decomposition Products	None.

11. TOXICOLOGICAL INFORMATION

Route(s) Of Entry/Exposure	Note all values are calculated in accordance with OSHA 29 C.F.R. § 1910 for mixtures.
Ingestion	LD ₅₀ Oral - rat: >9000 mg/kg
Skin Absorption	LD ₅₀ Dermal – rat: >2000 mg/kg
Inhalation	LC ₅₀ Inhalation – rat (per 4 hours): >20 mg/L
Eye Contact	Irritant due to ceramic solids in the paint.
Skin Contact	None expected.
Effects of Acute Exposure	See section above for eye contact, skin contact, ingestion, and inhalation.
Effects of Chronic Exposure	CAUTION! Exposure to dust may be irritating to eyes, nose and throat.
Exposure Limits	
NTP	No ingredient of this product is present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed carcinogen by NTP.
IARC	No ingredient of this product is present at levels greater than or equal to



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	0.1% is identified as a probable, possible, or confirmed carcinogen by OSHA.
ACGIH	No ingredient of this product is present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed carcinogen by ACGIH.
OSHA	No ingredient of this product is present at levels greater than or equal to 0.1% is identified as a probable, possible, or confirmed carcinogen by OSHA.
Reproductive Effects	No adverse effects.
Further Information	Quantitative data on this product is not available. No toxic effects are to be expected when this product is handled appropriately.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Data is lacking and inconclusive for this product.
Persistence/Degradability	Data is lacking and inconclusive for this product.
Bio Accumulative Potential	Data is lacking and inconclusive for this product.
Mobility in Soil	Data is lacking and inconclusive for this product.
Other Adverse Effects	Data is lacking and inconclusive for this product.

13. DISPOSAL CONSIDERATIONS

Description of Waste	No data.
Methods of Disposal	Consult local/regional/national/international regulations for compliance. The liquid nature of this product may restrict disposal options. Non-contaminated paint may be returned to the manufacturer for proper disposal. The dried paint generally does not exhibit any characteristics of a hazardous waste.

14. TRANSPORT INFORMATION

UN Number	
DOT, IMDG, IATA	n. ap.
Proper Shipping Name	
DOT, IMDG, IATA	n. ap.
Hazard Class(es)	DOT – Not Regulated.
DOT, IMDG, IATA	ICAO/IATA – Not Dangerous or not hazardous goods not restricted for transport by air. IMDG – Not Regulated
Packaging Group	DOT – Not Regulated
DOT, IMDG, IATA	ICAO/IATA – Not Dangerous or not hazardous goods not restricted for transport by air. IMDG – Not Regulated
Environmental Hazards	
DOT, IMDG, IATA	n. ap.
Special Precautions	



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DOT, IMDG, IATA

n. ap.

15. OTHER REGULATORY INFORMATION

California Proposition 65 Warnings

This product does not contain any material or ingredient that the State of California has found to cause cancer which would require a warning under the statute.

TSCA Inventory

All substances contained in this product are listed in the Toxic Substances Control Act Chemical Substance Inventory.

HMIS (USA)

HEALTH 1

FLAMMABILITY 0

REACTIVITY 0

PERSONAL PROTECTION E

NFPA (USA)



Health
Flammability
Reactivity
Specific Hazard

Protective Equipment



16. OTHER INFORMATION

SDS Number: 1123
SDS Revision Number: 2-1-0
SDS Preparation or Revision Date: January 6, 2020
SDS Prepared By: C. Holcombe
Date Printed: January 6, 2020
Telephone Number: 865-482-5717
Abbreviations

Not Available n. av.

Not Applicable n. ap.

DOT US Department of Transportation

IATA International Air Transportation Association

IMDG International Maritime Code for Dangerous Goods

ICAO International Civilian Aviation Organization

GHS Globally Harmonized System of Classification and Labeling of Chemicals

CAS Chemical Abstract Service

HMIS Hazardous Materials Identification System (US)

NFPA National Fire Protection Association (US)

LC50 Lethal concentration, 50 percent

LD50 Lethal dose, 50 percent

STOT Specific Target Organ Toxicity



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RQ	Reportable Quantity
TPQ	Threshold Planning Quantity
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
SARA	Superfund Amendments and Reauthorization Act
TSCA	Toxic Substances Control Act
RTK	Right to Know
EPCRA	Emergency Planning and Community Right to Know Act
TLV	Threshold Limit Values
PEL	Permissible Exposure Limits

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