SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name	Glass Release Thinner
Product Code	2123

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 Identifiers		Wt.%
Water	CAS No.	7732-18-5	96-99
Proprietary Trade Secret	CAS No.	Mixture	1-4

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:

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

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid	**Odor**	None
Color	Hazy	**Vapor Pressure**	10-20 mmHg
Specific Gravity	1.0	**Vapor Density**	Greater than air (Air=1)
pH	7-8	**Solubility in Water**	Dilutable
Viscosity	5-12 cps	**Freezing Point**	0° C (32° F)
Melting Point	n. ap.	**Boiling Point**	100° C (212° F)
VOC Content	0 g/L	**Percent Volatile**	98-99%
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 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.

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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	
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**

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FLAMMABILITY	**0**
REACTIVITY	**0**
PERSONAL PROTECTION	**E**

NFPA (USA)

Health
Flammability
Reactivity
Specific Hazard

Protective Equipment

16. OTHER INFORMATION

SDS Number:	2123
SDS Revision Number:	2-1-0
SDS Preparation or Revision Date:	May 1, 2017
SDS Prepared By:	C. Holcombe
Date Printed	May 1, 2017
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
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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