

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Boron Nitride Aerosol Lubricoat®

Product Code 1047

Safety Data Sheet Supplier Information:

ZYP Coatings, Inc. 120 Valley Court

Manufacturer Oak Ridge, TN 37830

www.zypcoatings.com

(865) 482-5717 8:30 AM - 5:00 PM EST. Telephone (General)

Emergency Telephone Number (800) 255-3924 -VelocityEHS

(813) 248-0585 Outside of US - Call Collect

HAZARDS IDENTIFICATION

GHS CLASSIFICATION:

SYMBOL(S) SIGNAL WORD



PRIMARY ROUTES OF EXPOSURE Inhalation, contact to eyes, and skin.

HAZARD STATEMENTS

Flammable	Category 1	H222	Extremely flammable aerosol.
Gas under		H280	Contains gas under pressure; may explode if
pressure			heated.
Eye Irritant	Category 2A	H319	Causes serious eye irritation.
STOT:SE	Category 3	H336	May cause drowsiness or dizziness.

PRECAUTIONARY STATEMENT(S)

P210	Keep away from heat / sparks / open flames / hot surfaces No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P261	Avoid breathing dust / fumes / gas / mist / vapors / spray.
P264	Wash hands thoroughly after handling.
P271	Use outdoors or in a well-ventilated area.

P280 Wear protective gloves and eye protection.

IF INHALED: Remove the victim to fresh air and keep at rest in a position P304 + P340

comfortable for breathing. P305 + P351 + IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. P338

Call a POISON CENTER or doctor / physician if you feel unwell. P312

If eye irritation persists: Get medical advice / attention. P337 + P313



P403 Store in a well-ventilated place.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50° C/ 122 °F

Dispose of contents / container in accordance with local / regional / P501 national / international regulations.

Health Fire Reactivity 0



COMPOSITION / INFORMATION ON INGREDIENTS

		Hazard	Components
		alteria Tomber	

Chemical Name	Iden	tifiers	Wt.%
Boron Nitride	CAS No.	10043-11-5	5-10
Ethanol	CAS No.	64-17-5	10-30
2-Propanone (Acetone)	CAS No.	67-64-1	30-60
Propane	CAS No.	74-98-6	10-30
Butane	CAS No.	106-97-8	10-30
Isobutane	CAS No.	75-28-5	5-10
Proprietary-Trade Secret	CAS No.		1-5

FIRST AID MEASURES

Flush eyes, including under the eyelids, with large amounts of water. If irritation persists, **EYES** seek medical attention.

Wash thoroughly with mild soap and water. SKIN INGESTION In the event of swallowing, drink 1 or 2 glasses of water to dilute.

Remove from exposure. Restore breathing, keep warm, and quiet. INHALATION

General

Never give anything by mouth to an unconscious person. Do not induce vomiting. Call a

poison center or a doctor if you feel unwell.

5. FIRE FIGHTING MEASURES

Extinguishing Media Water spray or fog, dry chemical, or carbon dioxide.

Flammable aerosol. Flammability Classification Special Hazards Arising from the None known.

Chemical

Oxides of carbon. **Hazardous Combustion Products**

Specific Protective Equipment

As in any fire, wear self-contained breathing apparatus (SCBA), NIOSH (approved or equivalent) and full protective gear. Extremely flammable and Precautions (Firefighters)

liquid packaged in an aerosol spray canister using a flammable gas propellant. Vapors are heavier than air and may travel to sources of ignition

and flash back. Avoid high temperatures and static charges.



Personal Precautions, Protective	/(
Equipment and Emergency	
Procedures	

irritation from contact. In case of spill or rupture, avoid breathing vapors and ventilate area well. Remove all sources of ignition and use non-sparking equipment. Soak up with inert absorbents. Allow absorbents to dry and dispose in accordance with local/regional/national/international

Clean up personnel should wear rubber gloves and goggles to prevent

regulations. Do not allow product to reach sewage system or any water course.

Methods and Materials For Containment and Cleaning Up

Environmental Precautions

No special measures are required; refer to environmental and personal precautions, and other sections of this document.

HANDLING AND STORAGE

SAFE HANDLING PRECAUTIONS

Personnel should wear the appropriate equipment when handling the paint in order to minimize the chance of contact/exposure. Boron Nitride is

SAFE STORAGE PRECAUTIONS

slippery, and is considered a slip hazard if spilt on a walkway. Practice good housekeeping. Do not store in heat over 122° F (50° C). Do not spray into open flame or on hot surfaces. High temperatures may cause bursting. Do not puncture or incinerate. Keep out of reach of children. For warehouse storage, pallets, and cases should be placed to avoid damage or rupture from material handling equipment. With use, spray aerosol carefully and cap after each use.

EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits/Guidelines

Engineering Measures/Controls Personal Protective Equipment

Respiratory

Eye/Face

Skin/Body

Hands

Provide adequate ventilation to control dust or vapors below the regulated exposure limits (PEL and TLV). 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. An appropriate NIOSH-approved respirator must be worn if exposure is

likely to exceed the lowest TLV/PEL rated regulations.

Safety goggles or side shielded safety glasses are recommended for any

type of industrial handling.

Use impervious gloves.

Normal work clothing. Note that long sleeved shirts, long pants and gloves are recommended.

Guideline ACGIH (TLV):

Exposure Guidelines

Boron Nitride

10 mg/m³ (total dust) 5 mg/m³ (respirable fraction)

None established (treat as nuisance dust)

Guideline OSHA (PEL): None established (treat as nuisance dust)



15 mg/m³ (total dust)

5 mg/m³ (respirable fraction)

Ethanol Guideline ACGIH (TLV): 1000 ppm (or 1,880 mg/m³)

Guideline OSHA (PEL): 1000 ppm (or 1,900 mg/m³)

Acetone Guideline ACGIH (TLV): 250 ppm (600 mg/m³)

Guideline OSHA (PEL): 1000 ppm (2,400 mg/m³)

Propane Guideline ACGIH (TLV): 2500 ppm (4,508 mg/m³) Guideline OSHA (PEL): 1000 ppm (1800 mg/m³)

J-Butane Guideline ACGIH (TLV): 1000 ppm

N-Butane Guideline ACGIH (TLV): 1000 ppm Guideline OSHA (PEL): 800 ppm

Isobutane Guideline ACGIH (TLV): 1000 ppm

Guideline OSHA (PEL): None established

Proprietary-Trade Guideline ACGIH (TLV): 10 mg/m³ (total dust)

Secret 1 mg/m³ (respirable fraction)

Guideline OSHA (PEL): 15 mg/m³ (total dust)

5 mg/m³ (respirable fraction)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical StateLiquid AerosolOdorAlcohol/AcetoneColorWhiteVapor PressureNot determinedSpecific GravityNot determinedVapor DensityHeavier than air

pH n. ap. Solubility in Water NIL

Viscosity Not determined Freezing Point Not determined

Melting Point n. ap. Boiling Point Not determined

VOC Content 599 g/L (Regulatory) Percent Volatile 90%

313 g/L (Actual)

Molecular Weight n. ap. Flash Point <2° C (<36° F) for liquid

portion

Evaporation Rate Rapid Flash Point Method Closed cup

10. STABILITY AND REACTIVITY

Chemical Stability Stable under normal conditions.

Incompatible Materials Caustics and oxidizing materials and liquids. Strong acids and bases.

Conditions To Avoid Heat, sparks, flame, and/or red hot metal.

Hazardous Decomposition Products Will not occur.

11. TOXICOLOGICAL INFORMATION

Route(s) Of Entry/Exposure Note all values are calculated in accordance with OSHA 29 C.F.R. § 1910



Ingestion Skin Absorption Inhalation

Eve Contact Skin Contact LD₅₀ Oral - rat: 3718 mg/kg

for mixtures.

LD₅₀ Dermal - rat: 2853 mg/kg

LC₅₀ Inhalation - rat (per 4 hours): 17.35 mg/kg

Redness, burning, tearing, or swelling. Irritation will occur. Prolong/repeated contact with skin may cause redness, irritation,

burning, drying, or cracking.

nose and throat.

Effects of Acute Exposure

Effects of Chronic Exposure

See sections above for eye contact, skin contact, ingestion, and inhalation.

Exposure Limits

CAUTION! Exposure to dust from dried paint may be irritating to eyes,

NTP Ethanol is listed as A3 (Confirmed animal carcinogen with unknown relevance to humans).

IARC Ethanol is listed as Group 1 (Carcinogenic to humans) for ethanol in

alcoholic beverages. But, some doubt has been expressed regarding whether developmental toxicity can be caused by occupational exposure to ethyl alcohol. Inhalation and dermal exposure in the workplace result

in low blood alcohol concentrations.

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.

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.

No adverse effect.

Quantitative data on this product is not available. No toxic effects are to

be expected when this product is handled appropriately.

12. ECOLOGICAL INFORMATION

Bio Accumulative Potential

Other Adverse Effects

Mobility in Soil

Reproductive Effects

Further Information

OSHA

Ecotoxicity Data is lacking and inconclusive for this product.

Persistence/Degradability Data is lacking and inconclusive for this product.

13. DISPOSAL CONSIDERATIONS

Description of Waste Do not incinerate aerosol cans. Allow solvents on cleaning rags, papers, etc. to evaporate, and then dispose of in safety containers. Use and store

to prevent accidental rupture of aerosol cans.

Methods of Disposal Empty cans completely and then puncture it with the approved devices made for this purpose. The aerosol canisters may then be disposed in the



usual trash removal. Consult state, local or national regulations to ensure proper disposal. Disposal must be made according to official regulations.

106-97-8

UN Number UN Number UN Number Utd. Qty. Proper Shipping Name DOT, IMDG, IATA Proper Shipping Name DOT, IMDG, IATA Razard Class(es) DOT -Regulated Class 2.1 ICAO/IATA - Dangerous, hazardous goods restricted for transport by air. IMDG - Regulated Ltd. Qty. DOT - Regulated Ltd. Qty. DOT - Regulated Ltd. Qty. DOT - Regulated Ltd. Qty. ICAO/IATA - Dangerous, hazardous goods restricted for transport by air. IMDG - Regulated Ltd. Qty. DOT, IMDG, IATA ICAO/IATA - Dangerous, hazardous goods restricted for transport by air. IMDG Regulated Environmental Hazards DOT, IMDG, IATA In. ap. SPECIAL - Later REGULATORY INFORMATION Component CAS No SARA 302 Ethanol Acetone G7-64-1 Acetone G7-64-1 SARA 311/312 Ethanol Acetone G7-64-1 Acetone G7-64-1 CERCLA - Hazardous Substance Ethanol Acetone G7-64-1 Acetone G7-64-1 CERCLA - Hazardous Substance CERCLA - Hazardous Substance Ethanol Acetone G7-64-1 Acetone G7-64-1 OSHA Ethanol G4-17-5 Acetone G7-64-1 Acetone G7-64-1 OSHA Ethanol G4-17-5 Acetone G7-64-1 Acetone G7-64-1 WHIMIS Ethanol G4-17-5 Acetone G7-64-1 Acetone G7-64-1 WHIMIS Ethanol G4-17-5 Acetone G7-64-1 Pennsylvania Right to Know Ethanol G4-17-5 Acetone G7-64-1 Pennsylvania Right to Know Ethanol G4-17-5 Acetone G7-64-1 Acetone G7-64-1 Fixed G4-17-5 Acetone G7-64-1 Pennsylvania Right to Know Ethanol G4-17-5 Acetone G7-64-1 Fixed G4-17-5 Acetone			and making an earliest and that are a second as		
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N-Butane



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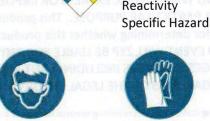
California Proposition 65 This product does not contain any material or ingredient that the State Warnings

of California has found to cause cancer which would require a warning under the statute.

All substances contained in this product are listed in the Toxic **TSCA Inventory** Substances Control Act Chemical Substance Inventory. **HEALTH** HMIS (USA)

FLAMMABILITY 4 REACTIVITY 0 PERSONAL PROTECTION E

Health Flammability Reactivity





16. OTHER INFORMATION

Protective Equipment

NFPA (USA)

SDS Number:

SDS Revision Number:

SDS Preparation or Revision Date:

SDS Prepared By: **Date Printed**

Telephone Number Abbreviations

Not Available **Not Applicable**

DOT IATA **IMDG**

LC50

US Department of Transportation

International Air Transportation Association International Maritime Code for Dangerous Goods **ICAO** International Civilian Aviation Organization

GHS Globally Harmonized System of Classification and Labelling of Chemicals CAS Chemical Abstract Service

1047

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n. ap.

January 1, 2023

January 1, 2023

865-482-5717

C. Holcombe

HMIS Hazardous Materials Identification System (US) **NFPA**

National Fire Protection Association (US)

Lethal concentration, 50 percent



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

Although reasonable care has been taken in the preparation of the information contained herein, the manufacturer extends no warranties, makes no representation and assumes no responsibility as to the accuracy or suitability of such information for the application to purchaser's intended purposes or for consequences of its use.

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