- SAFETY DATA SHEET -

SECTION 1: IDENTIFICATION

Product Name: **BondTAC White Topcoat**
Recommended use: Low-voc Waterproofing membrane & white, reflective coating
Restrictions on use: None

MANUFACTURER
Grenhall Industries Inc.
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Brampton, Ontario, Canada L6T 4X4
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www.grenhall.com

EMERGENCY CONTACT:
Chemtrec: 1-800-424-9300
Canutec: 613-996-6666

SECTION 2: HAZARDS IDENTIFICATION

GHS Label Elements

Emergency Overview

This material is classified as hazardous under U.S. OSHA regulations(29CFR 1910.1200)(Hazcom 2012) and Canadian WHMIS regulations(Hazardous Products Regulation) WHMIS 2015

Signal Word(s): **DANGER!**

Hazard Statement(s): flammable Liquid-Category 3, Skin irritation-Category 2, Eye irritation-Category 2A, Reproductive toxicity-Category 2, Aspiration toxicity-Category 1

May be harmful if swallowed. Causes eye, skin and respiratory tract irritation.

Precautionary Statements:

General: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

Hazardous Material Information System (USA): **Health:** 2 **Flammability:** 3 **Reactivity:** 1
National Fire Protection Association (USA): **Health:** 2 **Flammability:** 3 **Reactivity:** 1

Relevant routes of exposure: Eyes, Inhalation, Skin, Ingestion

WHMIS hazard class: B.2, D.2.B

Potential Health Effects

Inhalation: Vapours may cause headaches, nausea, dizziness and respiratory tract irritation.
Skin Contact: Irritating to skin.
Eye Contact: Liquid or vapours may irritate the eyes.
Ingestion: Harmful if swallowed.

Existing conditions aggravated by exposure: Not available.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components	CAS NUMBER	%
Acetone	67-64-1	10 - 20
Toluene	108-88-3	20 - 30
Naphtha (light aliphatic)	64742-89-8	1 - 10
PCBTF	98-56-6	1 - 15
Xylene	1330-20-7	1-10
Ethyl benzene	100-41-4	<1

SECTION 4: FIRST-AID MEASURES

Inhalation: Move to fresh air. Seek medical attention if complaint persists.

Skin Contact: Wash affected area immediately with soap and water. Seek medical attention, if irritation develops.

Eye Contact: Flush eyes immediately with copious quantities of water for 15 minutes. Seek immediate medical attention.

Ingestion: If swallowed, do not induce vomiting. Seek medical advice immediately.

SECTION 5: FIRE-FIGHTING MEASURES

Flash point: -7°C (19.4°F) T.C.C.

Autoignition temperature: Not available

Flammability/Explosive limits in air: 0.8 - 8%(V)

Extinguishing Media: Foam, water spray (fog). Dry chemical powder or carbon dioxide.

Special firefighting procedures: Wear self-contained breathing apparatus. Wear full protective clothing.

Unusual fire or explosion hazards: Vapours may cause flash fire. Vapours may travel along ground to remote ignition source where they can ignite, flashback or explode

Hazardous combustion products: Carbon dioxide. Carbon monoxide.

Sensitivity to static discharge: Vapours sensitive.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Do not allow product to enter sewer or waterways.

Clean-up methods: Soak up with inert absorbent material and place in a chemical-safe waste container until ready for disposal.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid contact with skin, eyes, and clothing. Do not breathe vapour and mist. Wash thoroughly after handling. Ensure electrical continuity by bonding and grounding (earthing) all equipment.

Storage: Keep the container tightly closed and store in a cool, dry, ventilated area. Containers, even those that have been emptied, can contain explosive vapours. Do not cut, drill, grind, weld or perform similar operations on or near containers.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

	Acetone	**Toluene**	**Naphtha** (light aliphatic)	**PCBTF**	**Xylene**	**Ethylbenzene**
OSHA Permissible Exposure Limit (PEL)	1,000 ppm	200 ppm (TWA) 300 ppm (ceiling conc.) 500 ppm (max conc.)	1,000 ppm	Not Available	100ppm	100ppm
ACGIH Threshold Limit Value (TLV)	500 ppm (TWA)		400 ppm	Not Available	100ppm	20ppm

Engineering Controls: Use local ventilation if general ventilation is insufficient to maintain vapour concentration below established exposure limits.

Respiratory Protection: Use NIOSH approved respirator if there is potential to exceed exposure limits.

Eye/face Protection: Safety goggles or safety glasses with side shields.

Skin Protection: Use impermeable gloves and protective clothing as necessary to prevent skin contact.

Personal Protective Equipment: Personal protective equipment (PPE) should meet recommended national standards. Check with PPE suppliers. The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Select controls based on a risk assessment of local circumstances. Appropriate measures include: Adequate explosion-proof ventilation to control airborne concentrations below the exposure guidelines/limits. Eye washes and showers for emergency use.

Additional Information: Wash hands before eating, drinking, or using the toilet.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	White
Odour:	Solvent
Odour threshold:	Not available
Vapour pressure:	Not available
Specific gravity:	1.26 @24°C
Vapor density (Air=1):	Above 1
Flash point:	-7°C T.C.C.
Autoignition temperature:	Not available
Evaporation rate (Butyl Acetate=1):	Greater (faster than)
Evaporation rate (Ethyl Acetate=1):	Less (slower than)
Solubility in water:	Not soluble
% Non-Volatiles:	60-63
Viscosity:	1650-1760 cps

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions of use.

Conditions to Avoid: Avoid heat, sparks, open flames and other ignition sources.

Materials to Avoid: Strong oxidizing agents.

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicological testing has not been conducted for the overall product. The data shown below is representative for the individual hazardous ingredients.

COMPONENT	LD_{50}	LC_{50}
Acetone	5.8 g/kg, oral Rat	27,000 ppm
Toluene	Dermal (Rabbit) 14100 uL/kg Oral (Rat) 636 mg/kg	Inhalation (Mouse) 400 ppm/24Hr. Inhalation (Rat) 49 gm/m^3/4Hr. Inhalation (Female Rat) 19 mg/L/4Hr.
Naphtha (light aliphatic)	>2,000 mg/g, oral Rat	>5,000 ppm
PCBTF	6,700 mg/g, oral Rat	4,470 ppm, inhalation rat/4Hr.
Xylene	3253mg/g oral Rat	inhalation Rat6350 ppm (27.6 mg/L)(vapours)
Ethyl benzene	3500mg/kg oral Rat	inhalation Rat 4000ppm(17.4 mg/L)(vapours)

SECTION 12 : ECOLOGICAL INFORMATION

Ecological information:

Acute Toxicity	
Fish	Toxic: LL/EL/IL50>1<=10mg/l
Aquatic crustaces	Toxic: LL/EL/IL50>1<=10mg/l
Algae/aquatic plants	Toxic: LL/EL/IL50>1<=10mg/l
Microorganisms	Practically non toxic: LL/EL/IL50> 100mg/l

SECTION 13: DISPOSAL CONSIDERATIONS

Material Disposal: Destroy by incineration at an approved waste facility.

Container Disposal: Drain container thoroughly and vent in a safe place away from sparks and fire.
Refer to Section 7 before handling the product or containers. Residue may present an explosion hazard.

SECTION 14: TRANSPORT INFORMATION

Transportation Classification: **(DOT/TDG/IMDG/IMO/ICAOIATA)**

Identification Number:	UN1133
Proper Shipping Name:	ADHESIVES containing flammable liquid
Hazard Class or Division:	3
Packing Group:	II
Marine pollutant	Yes

SECTION 15: REGULATORY INFORMATION

Canada Regulatory Information:

CEPA DSL/NDSL Status: All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

This product has been classified in accordance with the hazard criteria of the CPR
W.H.M.I.S. Classification: B2, D2A, D2B

United States Regulatory Information:

TSCA 8 (b) Inventory Status: All components are listed on or are exempt from listing on the Toxic Substances Control Act Inventory.

SARA Title III Section 313 Form “R”/TRI Reportable Chemical

Other Regulations:

EPA 40 CFR 51.100 Definition of VOC

SOR/2009-264 CEPA VOC Concentration Limits for Architectural Coatings Regulations: 211 gVOC/L

Environmental hazards: This substance meets the criteria for environmentally hazardous substance according to the IMDG code.

SECTION 16: OTHER INFORMATION

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