

- SAFETY DATA SHEET -

SECTION 1: IDENTIFICATION

Product Name: BondTAC ECO TOPCOAT
Recommended use: Waterproofing
Restrictions on use: None

MANUFACTURER

Grenhall Industries Inc.
1 Imperial Court
Brampton, Ontario, Canada L6T 4X4
Tel: 905-458-8549
Fax: 905-458-8363
www.grenhall.com

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

SECTION 2: HAZARDS IDENTIFICATION

GHS Label Elements



Emergency Overview

Signal Word(s): **WARNING**

Hazard Statement(s):
May be harmful if swallowed. Causes eye, skin 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: 0 Reactivity: 1
National Fire Protection Association (USA): Health: 2 Flammability: 0 Reactivity: 1

Relevant routes of exposure: Eyes, Inhalation, Skin, Ingestion
WHMIS hazard class:

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

Chemical Name	CAS NUMBER	%
PCBTF	98-56-6	48-52

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.
Ingestion: If swallowed, do not induce vomiting. Treat symptomatically

SECTION 5: FIRE-FIGHTING MEASURES

Flammability Will not sustain combustion. **SEE APPENDIX**
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: Under extreme heat drum may burst.
Sensitivity to static discharge: No

SECTION 6: ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8,

Environmental precautions: None
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
Storage: Keep the container tightly closed and store in a cool, dry, ventilated area.

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.

Engineering Controls:	Use local ventilation if general ventilation is insufficient.
Respiratory Protection:	In case of insufficient ventilation Use NIOSH approved respirator
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. 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:	Slight sweet aromatic
Odour threshold:	0.1 ppm (0.8 mg/m ³)
Vapour pressure:	706.61 Pa
Specific gravity:	1.3137@ 23°C
Vapor density (Air=1):	Above 1
Flash point:	43°C (109.4°F) Pensky- Martens T.C.C.
Autoignition temperature:	>600 °C
Evaporation rate (Butyl Acetate=1):	0.9
Solubility in water:	29mg/l
% Non-Volatiles:	51- 53
Viscosity:	4800 cps @23°C

SECTION 10: STABILITY AND REACTIVITY

Stability:	Stable under normal conditions of use.
Conditions to Avoid:	Heating product above 110 °C
Materials to Avoid:	Strong oxidizers. Strong acids

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity Not classified

COMPONENT	LD ₅₀	LC ₅₀
PCBTF	6,700 mg/kg oral rat	4,470 ppm inhalation rat/4 hr.

Germ cell mutagenicity : not classified
Carcinogenicity : not classified

SECTION 12: ECOLOGICAL INFORMATION

Ecology-air : not considered harmful to ozone layer
Global warming : no known ecological damage caused by this product.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste disposal : Depose in a safe manner in accordance with local/national regulations

SECTION 14: TRANSPORT INFORMATION

Transportation Classification: (DOT/TDG/IMDG/IMO/ICAO/IATA) NOT REGULATED

SEE APPENDIX

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.

SECTION 16: OTHER INFORMATION

SEE APPENDIX

Issue Date: July 30, 2018

The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Grenhall Industries Inc. will not be liable for any damages, losses, injuries or consequential damages which may result from the use of or reliance on any information contained herein.

APPENDIX

UN TDG TEST L.2 SUSTAINED COMBUSTIBILITY

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Report Date: July 25, 2018

Report #: 21944-25-07-2018

Client: Grenhall Industries Inc.
1 Imperial Court
Brampton, ON, Canada
L6T 4X4

Tests: UN TDG Test L.2 Sustained Combustibility

Product Name: BondTAC ECO Topcoat

Dell Tech Code #: 18-0213

Procedure:

This test is used to determine if a substance sustains combustion when heated under the test conditions and exposed to a flame. A specified volume (2 mL) of the substance is transferred to the sample well and its ability to sustain combustion is noted after application and subsequent removal of a standard flame under specified conditions. A metal block with a concave depression (Sample well) is heated to a specified temperature (60.5 °C for 60 seconds and if no ignition observed again at 60.5 °C for 30 seconds)

If no sustained combustion is observed at 60.5 °C, the test is repeated at 75 °C with fresh samples at 60 & 30 seconds.

Results:

	Test 1		Test 2		Test 3	
Block Temperature	60.5 °C					
Heating Time (seconds)	60	30	60	30	60	30
Sustained Combustion Observed ?	No	No	No	No	No	No
	Test 1		Test 2		Test 3	
Block Temperature	75 °C					
Heating Time (seconds)	60	30	60	30	60	30
Sustained Combustion Observed ?	No	No	No	No	No	No



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Conclusion:

The sample BondTAC ECO Topcoat does not ignite and does not sustain combustion and has passed this test.

Liquids meeting the definition in 2.3.1.2 with a flash point of more than 35°C which do not sustain combustion need not be considered as flammable liquids for the purposes of the UN TDG regulations. Liquids are considered to be unable to sustain combustion if they have passed the UN TDG Manual of test & Criteria, Part III, sub-section 35.5.2 UN TDG Test L.2 Sustained Combustibility.

The UN TDG Manual of test & Criteria, Part III, sub-section 35.5.2 UN TDG Test L.2 Sustained Combustibility requires that the test be performed at 60.5 °C and 75 °C. The sample was also tested at 95 °C and 110 °C at the request of the test sponsor.

	Test 1		Test 2		Test 3	
Block Temperature	95 °C					
Heating Time (seconds)	60	30	60	30	60	30
Sustained Combustion Observed ?	No	No	No	No	No	No
	Test 1		Test 2		Test 3	
Block Temperature	110 °C					
Heating Time (seconds)	60	30	60	30	60	30
Sustained Combustion Observed ?	No	No	No	No	No	No

Tested by: 
 Dana Madin, Lab Technician

Approved by: 
 Joe McCarthy, Lab Services Manager



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SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

DELL TECH LABORATORIES LTD.
100 Collip Circle, Suite 220
London, Ontario N6G 4X8 Canada
Joseph McCarthy
Phone: 519 858 5024
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CHEMICAL

Valid To: May 31, 2019

Certificate Number: 4305.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following tests on chemical compounds, cleaning agents, pharmaceuticals, and cosmetics:

<u>Test</u>	<u>Test Method(s)</u>
In Vitro Membrane Barrier Test Method for Skin Corrosion	OECD 435/Corrositex®
Corrosion to Metals	UN Manual of Tests and Criteria, Part III, Section 31.7
Ignition Distance Test of Aerosols	UN Manual of Tests and Criteria, Part III, Section 31.4
Enclosed Space Ignition Test	UN Manual of Tests and Criteria, Part III, Section 31.5
Foam Flammability	UN Manual of Tests and Criteria, Part III, Section 31.6
Sustained Combustion	UN Manual of Tests and Criteria, Part III, Section 35.5.2 (Test L.2)
Flash Point by Tag Closed Cup Tester (> -4 °C only)	ASTM D56
Flash Point by Pensky-Martens Closed Cup Tester	ASTM D93
Flashback and Flame Length Projection of a Flammable Product Enclosed in a Spray Container	CCCR Schedule 1

(A2LA Cert. No. 4305.01) 08/15/2017

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Test

Determination of Flame Projection

Static Coefficient of Friction of Polish-Coated
Flooring Surfaces as Measured by the James
Machine

Test Method(s)

Health Canada Official Method DO-30

ASTM D2047

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Accredited Laboratory

A2LA has accredited

DELL TECH LABORATORIES LTD.

London, Ontario, Canada

for technical competence in the field of

Chemical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).



Presented this 15th day of August 2017.

A handwritten signature in black ink, appearing to read 'L. Se...', written over a horizontal line.

President and CEO
For the Accreditation Council
Certificate Number 4305.01
Valid to May 31, 2019

For the tests to which this accreditation applies, please refer to the laboratory's Chemical Scope of Accreditation.