



# Tread-Shield Top Coat WB

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: N/A

Date of Issue: 11/16/2022

Version: 1.0

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** Tread-Shield Top Coat WB

**Product Code:** 2074 A

#### Intended Use of the Product

Primer. For professional use only.

#### Name, Address, and Telephone of the Responsible Party

##### **Manufacturer**

The Garland Company, Inc.  
3800 East 91<sup>st</sup> Street  
Cleveland, Ohio 44105-2197  
T-800-762-8225  
F-216-641-0633  
www.garlandco.com

##### **Supplier**

The Garland Company, Inc.  
3800 East 91<sup>st</sup> Street  
Cleveland, Ohio 44105-2197  
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www.garlandco.com

The Garland Company, Inc.  
209 Carrier Drive  
Toronto, Ontario M9W 5Y8  
T-416-747-7995 ; 800-387-5991  
F-416-747-1980

#### Emergency Telephone Number

**Emergency Number:** 1-800-262-8200 (CHEMTREC)

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### **Classification (GHS-US):**

Serious eye irritation    Cat 2A  
Skin Corrosion            Cat 2  
Acute aquatic hazard    Cat 3

#### Label Elements

##### **GHS-US Labeling**

##### **Hazard Pictograms (GHS-US)**

:



##### **Signal Word (GHS-US)**

:

Warning

##### **Hazard Statements (GHS-US)**

:

H315: Causes skin irritation  
H319: Causes serious eye irritation  
H411: Toxic to aquatic life with long lasting effects

##### **Precautionary Statements (GHS-US)**

:

P102 Keep out of reach of children.  
P103 Read label before use  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P260 Do not breathing dust/fume/gas/mist/vapours/spray  
P271 Use only outdoors or in a well-ventilated area.  
P264 Wash hands thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
Response  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off Immediately all contaminated clothing. Rinse SKIN with water/shower.

# Tread-Shield Top Coat WB

## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: N/A Date of issue: 11/16/2022

P370 + P378 In case of fire: Use Foam, alcohol foam, CO2, dry chemical, water fog for extinction.

P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

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

P301 + P312 IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.

P330 Rinse mouth.

P302 + P352 IF ON SKIN: wash with plenty of soap and water.

P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P280 Wear eye protection/ face protection.

P281 Use personal protective equipment as required.

Response:

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 - Specific treatment (see supplemental first aid instructions on this label).

P332 + P313 - If skin irritation occurs: Get medical advice/attention.

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention.

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

P362 - Take off contaminated clothing and wash before reuse.

P363 - Wash contaminated clothing before reuse.

P391 - Collect spillage.

P501 - Dispose of contents/ container to an approved waste disposal plant.

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

P314 Get medical advice/attention if you feel unwell.

### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P233 Keep container tightly closed.

### Disposal:

P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Component

HAZARDOUS INGREDIENTS:	CAS #	Weight %
Water	7732-18-5	45-65
Polyacrylate resin	Trade Secret	25-50
Dipropylene glycol methyl ether acetate	88917-22-0	<4

# Tread-Shield Top Coat WB

## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: N/A Date of issue: 11/16/2022

Propylene glycol n-butyl ether	5131-66-8	<3
Reactive diluent	Trade Secret	<3
Triethanolamine	102-71-6	<1
2,5,8,11 tetramethyl 6 dodecyn-5,8 diol ethoxylate	169117-72-0	<1
Dipropylene glycol methyl ether acetate	34590-94-8	<0.5
2-butoxyethanol	111-76-2	<0.5
2-ethyl-1-hexanol	104-76-7	<0.5
Naphtha, petroleum, heavy	64742-82-1	<0.5
Additive	NJTSRN 800963-5023	0.1-1.0

**Composition Comments:** Exact concentrations and chemical identities of ingredients not listed above are either classified as non-hazardous or are withheld as a trade secret as covered by OSHA's Hazard Communication Standard, 29 CFR 1910.1200(i).

## SECTION 4: FIRST AID MEASURES

### Description of First Aid Measures

**General:** If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** REMOVE VICTIM TO FRESH AIR AND ADMINISTER OXYGEN IF NECESSARY

**Skin Contact:** Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder contaminated clothing before re-use.

**Eye Contact:** If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation develops.

**Ingestion:** DO NOT INDUCE VOMITING, KEEP PERSON WARM AND CONSULT A PHYSICIAN IMMEDIATELY.

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

**Suitable Extinguishing Media:** Foam, alcohol foam, CO<sub>2</sub>, Dry Chemical, Water, Fog

### Advice for Firefighters

**Fire Fighting Procedures:** Exercise caution when fighting any chemical fire.

**Protection During Firefighting:** Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray to disperse vapors and protect those stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special Protective Equipment for Firefighters:** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing includes helmets, protective boots, and gloves will provide a basic level of protection for chemical incidents.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment, and emergency procedures

#### Personal precautions:

Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Avoid contact with skin and eyes.

#### Environmental precautions

# Tread-Shield Top Coat WB

## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: N/A Date of issue: 11/16/2022

**Environmental precautions:** Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

### **Methods and Materials for Containment and Cleaning Up**

**For Containment:** Contain spilled material if possible. Remove all sources of ignition and ventilate the area. Absorb with materials such as: Dirt. Vermiculite. Sand.

**Methods for Cleaning Up:** Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

**Reference to Other Sections:** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## **SECTION 7: HANDLING AND STORAGE**

### **Precautions for Safe Handling**

**General Handling:** Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink, and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Suspected of causing cancer. May damage fertility. May damage the unborn child. Pregnant or breastfeeding women should not work with this product if there is any risk of exposure. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

**Advice on General Occupational Hygiene:** Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

### **Conditions for Safe Storage**

**General:** Store away from incompatible materials (see Section 10). Store locked up. Keep only in the original container. Keep container tightly closed in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Protect from freezing.

## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **EXPOSURE LIMITS/GUIDELINES:**

<b>HAZARDOUS INGREDIENTS:</b>	<b>CAS #</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>OSHA STEL</b>
Polyester Polyol		None	None	None
Methyl N-Amyl Ketone	110-43-0	None	None	None
Xylene	1330-20-7	100 PPM	100 PPM	150 PPM
4-chlorobenzotrifluoride	98-56-6	None	None	None
Ethyl Benzene	100-41-4	100 PPM	100 PPM	125 PPM
2,6-Dimethyl-4-Heptanone	108-83-8	25 PPM	25 PPM	None
Siloxanes and silicones, di-me reaction products with silica	67762-90-7	None	None	None

# Tread-Shield Top Coat WB

## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: N/A Date of issue: 11/16/2022

Siloxanes and silicones, di-methyl	63148-62-9	None	None	None
Polyalkylene glycol	9038-95-3	None	None	None
4,6-dimethyl-2-heptanone	19549-80-5	None	None	None
Dibutyltin Dilurate	77-58-7	0.1 mg/m3	0.1 mg/m3	0.1 mg/m3
Cellulose Acetate Butyrate	9004-36-8	None	None	None
Additive		None	None	None
Light stabilizer	Trade Secret	None	None	None
Benzotriazole derivative, branched ester	Trade Secret	None	None	None

## Control Parameters

### Occupational Exposure Limits

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne vapor. Ensure eyewash/safety shower stations are available near areas where this product is used.

**RESPIRATORY PROTECTION:** Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

**EYE PROTECTION:** Safety glasses or chemical goggles as appropriate to prevent eye contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

**HAND PROTECTION:** Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

**BODY PROTECTION:** Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

<b>PHYSICAL STATE:</b>	Liquid
<b>APPEARANCE &amp; ODOR:</b>	Low viscosity liquid milky white
<b>ODOR THRESHOLD (PPM):</b>	Not Available
<b>FLASH POINT:</b>	N/A
<b>AUTOIGNITION TEMPERATURE:</b>	Not Established
<b>VAPOR PRESSURE (mmHg):</b>	Not Available
<b>VAPOR DENSITY:</b>	Not Available

# Tread-Shield Top Coat WB

## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: N/A Date of issue: 11/16/2022

<b>EVAPORATION RATE (nBuAc = 1):</b>	Not Available
<b>BOILING POINT (C°):</b>	Not Available
<b>FREEZING POINT (C°):</b>	Not Available
<b>pH:</b>	Not Available
<b>SPECIFIC GRAVITY 20°C: (WATER =1)</b>	1.08
<b>SOLUBILITY IN WATER (%)</b>	Not Available
<b>EXPLOSIVE PROPERTIES:</b>	Not Available
<b>OXIDISING PROPERTIES:</b>	Not Available

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** No additional information available.

**Chemical Stability:** Stable under recommended storage conditions. See Storage, Section 7.

**Possibility of Hazardous Reactions:** No potentially hazardous reactions known.

**Conditions to Avoid:** Avoid excessive heat or open flames as well as all sources of ignition such as sparks, heaters, and static discharges.

**Incompatible Materials:** Can react vigorously with strong oxidizing agents.

**Hazardous Decomposition Products:** Does not decompose when used and stored as recommended. Thermal decomposition may produce harmful gases or vapors.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Toxicity

Specific Component Data:

#### additive

Acute oral toxicity: LD50 rat >8,000,000 mg/kg

#### 2,5,8,11 tetramethyl 6 dodecyn-5,8 diol ethoxylate

LD50 Ingestion >2000 mg/kg – rat

Dermal LD 50 >2000 mg/kg – rabbit

#### CAS# 111-76-2

Acute oral Toxicity -LD50 rat 530 mg/kg; LD50 rabbit 520 mg/kg;

Acute dermal Toxicity LD50 Rabbit 100mg/kg;

Acute Inhalation Toxicity LC50 rat 468ppm (4h)

#### CAS# 104-76-7

Acute Oral Toxicity: LD50 rat >5000mg/kg

Acute Dermal Toxicity rabbit 1970 mg/kg

#### CAS# 64742-82-1

Acute Oral Toxicity LD50 >5000 mg/kg

Acute Dermal Toxicity LD50 rabbit >3000 mg/kg

Acute inhalation Toxicity LC50 rat >11.6 mg/l

#### CAS# 34590-94-8

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Acute Oral Toxicity (LD50) 5130 mg/kg rat

Acute Dermal Toxicity (LD50) 9500 mg/kg rabbit

### Dipropylene glycol methyl ether acetate

toxic to lungs, is very hazardous in case of ingestion, is hazardous in case of skin contact (irritant, permeator), of inhalation.

### Polyacrylate resin

Acute oral toxicity LD50 > 2000mg/kg (rat)

### Propylene glycol n-butyl ether

Acute Oral Toxicity LD50 – 1900 mg/kg rat

Acute Dermal Toxicity LD50 3100 mg/kg

inhalation NOAEL <600 ppm (rat)

### Triethanolamine

Acute Oral Toxicity LD50 4190 mg/kg (rat)

Acute Dermal Toxicity LD50 >2000 mg/kg (rabbit)

inhalation NOAEL: > 0.5 mg/ml (rat, male/female)

## Information on Toxicological Effects – Product

**TOXICITY DATA:** Toxicity data is not available for this product:

**IRRITANCY OF PRODUCT:** Contact with this product can be irritating to exposed skin, eyes, and respiratory system.

**SENSITIZATION OF PRODUCT:** This product is considered a skin sensitizer.

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Specific Component Data:

#### 2,5,8,11 tetramethyl 6 dodecyn-5,8 diol ethoxylate

This product is anticipated to be harmful to aquatic organisms based on data from similar product.

### Polyacrylate resin

Acute and Prolonged Toxicity to fish LC50 > 100mg/ml (Zebra Fish) 96 hr

### Triethanolamine

Biodegradation: Aerobic, 82% exposure time 8 days, inherently biodegradable. Biological Oxygen demand (BOD) 0.5 mg/g

Acute and Prolonged Toxicity to fish LC50 >5000 mg/ml (fathead minnow), 96 h;

Acute Toxicity to Aquatic Invertebrates EC50: 216-750 mg/l end point (green algae), 72 hr.

### Propylene glycol n-butyl ether

Biodegradation >90% exposure time 28 d;

Acute and Prolonged Toxicity to Fish LC50: 560-1000 mg/l (guppy)

Acute Toxicity to Aquatic Invertebrates EC50 >1000 mg/l (water Flea)

### Persistence and Degradability

No known applicable information.

### Mobility in Soil

**Mobility in Soil:** No data available

## SECTION 13: DISPOSAL CONSIDERATIONS

# Tread-Shield Top Coat WB

## Safety Data Sheet

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Revision Date: N/A Date of issue: 11/16/2022

**Waste Disposal Recommendations:** Waste generation should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

**Unused and Contaminated Product:** Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

### SECTION 14: TRANSPORT INFORMATION

#### 14.1 In Accordance with DOT

**Proper Shipping Name** : Not regulated  
**Hazard Class** :  
**Identification Number** :  
**Packing Group** :

#### 14.2 In Accordance with IMDG

**Proper Shipping Name** : Not regulated  
**Hazard Class** :  
**Identification Number** :  
**Packing Group** :

#### 14.3 In Accordance with IATA

**Proper Shipping Name** : Not regulated  
**Hazard Class** :  
**Identification Number** :  
**Packing Group** :

### SECTION 15: REGULATORY INFORMATION

#### US Federal Regulations

OSHA 29 CFR 1910-1200 –See section 2

TSCA – All components of this product are listed on TSCA Inventory.

CERCLA Reportable Quantity – None known

SARA Title III: Section 302 Extremely Hazardous Substances – None

Section 304 – Not applicable.

Section 311/312 – Acute health and Chronic Health

Section 313 – Toxic chemical CAS 111-76-2

RCRA – Refer to section 13.

#### US State Regulations

#### Component data:

#### State Right to Know:

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Reactive diluent	X	X	X		

### SECTION 16: OTHER INFORMATION

**Revision Date** : 12/20/2022

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.



# Tread-Shield Top Coat WB

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**Party Responsible for the  
Preparation of This Document** : The Garland Company, Inc.  
3800 East 91<sup>st</sup> Street  
Cleveland, Ohio 44105-2197  
T-1800-762-8225  
F-216-641-0633

*This information is based on our knowledge as of the Revision Date and is intended to describe the product only for the purposes of health, safety and environmental requirements as of the Revision Date. It should not therefore be construed as guaranteeing any specific property of the product nor as providing any warranty, expressed or implied. The user assumes all responsibility, liability, risk of loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use, or disposal of the product.*

North America GHS US 2019 & WHMIS

# Tread-Shield Top Coat WB

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### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Mixture

**Product Name:** Tread-Shield Top Coat WB Part B

**Product Code:** 2074-B

#### Intended Use of the Product

Primer. For professional use only.

#### Name, Address, and Telephone of the Responsible Party

##### **Manufacturer**

The Garland Company, Inc.  
3800 East 91<sup>st</sup> Street  
Cleveland, Ohio 44105-2197  
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209 Carrier Drive  
Toronto, Ontario M9W 5Y8  
T-416-747-7995 ; 800-387-5991  
F-416-747-1980

#### Emergency Telephone Number

**Emergency Number:** 1-800-262-8200 (CHEMTREC)

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### **Classification (GHS-US):**

Flammable Liquid Cat 4  
Acute inhalation toxicity Cat 4  
Serious eye irritation Cat 2A  
Skin damage Cat 2  
Acute toxicity inhalation Cat 4  
Skin sensitizer Cat 1B  
Respiratory sensitizer Cat 1B  
Acute aquatic hazard Cat 3

#### Label Elements

##### **GHS-US Labeling**

**Hazard Pictograms (GHS-US)** :



**Signal Word (GHS-US)** :

Warning

**Hazard Statements (GHS-US)** :

H227: Combustible liquid  
H315: Causes skin irritation  
H319: Causes serious eye irritation  
H317: May cause an allergic skin reaction  
H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H332: Harmful if inhaled  
H411: Toxic to aquatic life with long lasting effects

**Precautionary Statements (GHS-US)** :

P102 Keep out of reach of children.  
P103 Read label before use  
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

# Tread-Shield Top Coat WB

## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: N/A Date of issue: 11/16/2022

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray P284 Wear respiratory protection.

P264 Wash hands thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P271 Use only outdoors or in a well-ventilated area

P273 Avoid release to the environment.

### Response

P370 + P378 In case of fire: Use FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL for extinction.

P304 + P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.

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

P342 + P311 IF experiencing respiratory symptoms: call a POISON CENTER or doctor/physician.

P302 + P352 IF ON SKIN: wash with plenty of soap and water.

P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse

P333 + P313 IF SKIN irritation or rash occurs: Get medical advice/attention.

P305 + P351 + P338 If in eyes: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

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

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

### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool

### Disposal:

P501 Dispose of contents/container to a waste disposal facility in accordance with local, state, federal or international laws

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Component

HAZARDOUS INGREDIENTS:	CAS #	Weight %
Hexane, 1,6-diisocyanate-, homopolymer	28182-81-2	<50
Butoxyl	4435-53-4	20-30
Isophorone diisocyanate homopolymer	5388-05-0	<20
Polyoxyethylene tridecyl ether phosphate	9046-01-9	5-10
Dimethylcyclohexylamine	98-94-2	1-3
*Isophorone diisocyanate	4098-71-9	<0.5
*Hexane, 1,6-diisocyanato-	822-06-0	0.1-1

**Composition Comments:** Exact concentrations and chemical identities of ingredients not listed above are either classified as non-hazardous or are withheld as a trade secret as covered by OSHA's Hazard Communication Standard, 29 CFR 1910.1200(i).

- \*Indicates toxic chemicals subject to reporting requirements of section 313 of Title III and of 40 CFR 372 are present.

## SECTION 4: FIRST AID MEASURES

# Tread-Shield Top Coat WB

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### Description of First Aid Measures

**General:** If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** REMOVE VICTIM TO FRESH AIR AND ADMINISTER OXYGEN IF NECESSARY

**Skin Contact:** Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder contaminated clothing before re-use.

**Eye Contact:** If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Seek medical attention if irritation develops.

**Ingestion:** DO NOT INDUCE VOMITING, KEEP PERSON WARM AND CONSULT A PHYSICIAN IMMEDIATELY.

## SECTION 5: FIRE-FIGHTING MEASURES

### Extinguishing Media

**Suitable Extinguishing Media:** Foam, alcohol foam, CO<sub>2</sub>, Dry Chemical, Water, Fog

### Advice for Firefighters

**Fire Fighting Procedures:** Exercise caution when fighting any chemical fire.

**Protection During Firefighting:** Avoid breathing fire gases or vapors. Evacuate area. Keep upwind to avoid inhalation of gases, vapors, fumes and smoke. Ventilate closed spaces before entering them. Cool containers exposed to heat with water spray to disperse vapors and protect those stopping the leak. Avoid discharge to the aquatic environment. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

**Special Protective Equipment for Firefighters:** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing includes helmets, protective boots, and gloves will provide a basic level of protection for chemical incidents.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment, and emergency procedures

**Personal precautions:** Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into spilled material. Avoid contact with skin and eyes.

### Environmental precautions

**Environmental precautions:** Avoid discharge into drains or watercourses or onto the ground. Avoid discharge to the aquatic environment.

### Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain spilled material if possible. Remove all sources of ignition and ventilate the area. Absorb with materials such as: Dirt. Vermiculite. Sand.

**Methods for Cleaning Up:** Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

**Reference to Other Sections:** For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling

**General Handling:** Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink, and animal feeding stuffs. Handle all packages and containers carefully to minimize spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Suspected of causing cancer. May damage

# Tread-Shield Top Coat WB

## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: N/A Date of issue: 11/16/2022

fertility. May damage the unborn child. Pregnant or breastfeeding women should not work with this product if there is any risk of exposure. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers.

**Advice on General Occupational Hygiene:** Wash promptly if skin becomes contaminated. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

### Conditions for Safe Storage

**General:** Store away from incompatible materials (see Section 10). Store locked up. Keep only in the original container. Keep container tightly closed in a cool, well ventilated place. Keep containers upright. Protect containers from damage. This product polymerizes when in contact with moisture.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### EXPOSURE LIMITS/GUIDELINES:

HAZARDOUS INGREDIENTS:	CAS #	OSHA PEL	ACGIH TLV	OSHA STEL
Hexane, 1,6-diisocyanate-, homopolymer	28182-81-2	1mg/m3	None	None
Butoxyl	4435-53-4	None	None	None
Isophorone diisocyanate homopolymer	5388-05-0	None	None	None
Polyoxyethylene tridecyl ether phosphate	9046-01-9	None	None	None
Dimethylcyclohexylamine	98-94-2	None	None	None
*Isophorone diisocyanate	4098-71-9	0.005 PPM	0.005 PPM	None
*Hexane, 1,6-diisocyanato-	822-06-0	None	0.005 PPM	None

### Control Parameters

#### Occupational Exposure Limits

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne vapor. Ensure eyewash/safety shower stations are available near areas where this product is used.

**RESPIRATORY PROTECTION:** Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

**EYE PROTECTION:** Safety glasses or chemical goggles as appropriate to prevent eye contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

**HAND PROTECTION:** Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

**BODY PROTECTION:** Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

PHYSICAL STATE:

Liquid

# Tread-Shield Top Coat WB

## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: N/A Date of issue: 11/16/2022

<b>APPEARANCE &amp; ODOR:</b>	Pale yellow liquid with negligible odor
<b>ODOR THRESHOLD (PPM):</b>	Not Available
<b>FLASH POINT:</b>	168 F
<b>AUTOIGNITION TEMPERATURE:</b>	Not Established
<b>VAPOR PRESSURE (mmHg):</b>	Not Available
<b>VAPOR DENSITY:</b>	Not Available
<b>EVAPORATION RATE (nBuAc = 1):</b>	Not Available
<b>BOILING POINT (C°):</b>	Not Available
<b>FREEZING POINT (C°):</b>	Not Available
<b>pH:</b>	Not Available
<b>SPECIFIC GRAVITY 20°C: (WATER =1)</b>	1.08
<b>SOLUBILITY IN WATER (%)</b>	Not Available
<b>EXPLOSIVE PROPERTIES:</b>	Not Available
<b>OXIDISING PROPERTIES:</b>	Not Available

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** No additional information available.

**Chemical Stability:** Stable under recommended storage conditions. See Storage, Section 7.

**Possibility of Hazardous Reactions:** No potentially hazardous reactions known.

**Conditions to Avoid:** Avoid excessive heat or open flames as well as all sources of ignition such as sparks, heaters, and static discharges.

**Incompatible Materials:** Avoid water, amines, strong bases, alcohols, metal compounds, and surface active compounds.

**Hazardous Decomposition Products:** May form toxic chemicals, carbon monoxide, carbon dioxide, oxides of nitrogen, HCN and HDI

## SECTION 11. TOXICOLOGICAL INFORMATION

Specific Component Data:

Hexamethylene homopolymer
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Acute Oral Toxicity: LD50 > 5000 mg/kg (rat)
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### Information on Toxicological Effects – Product

**TOXICITY DATA:** Toxicity data is not available for this product:

**IRRITANCY OF PRODUCT:** Contact with this product can be irritating to exposed skin, eyes, and respiratory system.

**SENSITIZATION OF PRODUCT:** This product is considered a skin sensitizer.

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

# Tread-Shield Top Coat WB

## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: N/A Date of issue: 11/16/2022

No data available

### **Persistence and Degradability**

No known applicable information.

### **Mobility in Soil**

**Mobility in Soil:** No data available

## **SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste Disposal Recommendations:** Waste generation should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

**Unused and Contaminated Product:** Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration or landfill should only be considered when recycling is not feasible.

## **SECTION 14: TRANSPORT INFORMATION**

### **14.1 In Accordance with DOT**

**Proper Shipping Name** : Not regulated in non-bulk packaging  
**Hazard Class** :  
**Identification Number** :  
**Packing Group** :

### **14.2 In Accordance with IMDG**

**Proper Shipping Name** : Combustible liquid n.o.s. (contains butoxyl)  
**Hazard Class** : 3  
**Identification Number** : NA 1993  
**Packing Group** : 3

### **14.3 In Accordance with IATA**

**Proper Shipping Name** : Combustible liquid n.o.s. (contains butoxyl)  
**Hazard Class** : 3  
**Identification Number** : NA 1993  
**Packing Group** : 3

## **SECTION 15: REGULATORY INFORMATION**

### **US Federal Regulations**

OSHA 29 CFR 1910-1200 –See section 2

TSCA – All components of this product are listed on TSCA Inventory.

SARA Extremely Hazardous Substances - Isophorone diisocyanate (Sarah EHS TPQ) 500 lbs.

CERCLA Reportable Quantity –Hexane 1,6-diisocyanateo- CERCLA/SARA RQ 100 lbs.

SARA Title III: Section 302 Extremely Hazardous Substances – None

Section 304 – Not applicable.

Section 311/312 – Acute health and Chronic Health

Section 313 – Xylene, 1.0% threshold value

RCRA – Refer to section 13.

### **US State Regulations**

**Prop 65:** This product may contain trace amounts of the following components that are regulated under California Proposition 65: Dioxane (cancer list), Acetaldehyde (Cancer list), Ethylene oxide (Cancer list, Reprod. List)

# Tread-Shield Top Coat WB

## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/Monday, March 26, 2012/Rules and Regulations

Revision Date: N/A Date of issue: 11/16/2022

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### SECTION 16: OTHER INFORMATION

<b>Revision Date</b>	:	12/20/2022
<b>Other Information</b>	:	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.
<b>Party Responsible for the Preparation of This Document</b>	:	The Garland Company, Inc. 3800 East 91 <sup>st</sup> Street Cleveland, Ohio 44105-2197 T-1800-762-8225 F-216-641-0633

*This information is based on our knowledge as of the Revision Date and is intended to describe the product only for the purposes of health, safety and environmental requirements as of the Revision Date. It should not therefore be construed as guaranteeing any specific property of the product nor as providing any warranty, expressed or implied. The user assumes all responsibility, liability, risk of loss, damage, or expense arising out of, or in any way connected with, the handling, storage, use, or disposal of the product.*