





since 1895

# Material Safety Data Sheet

NFPA	WHMIS	PPE	Transport Symbol
			Not Regulated

Preparation Date 12-Dec-2006

Revision Date 7-Jul-2010

Revision Number 4

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Tuff-Coat  
**Product Code** 1643  
**UN-No** Not available

**Contact Manufacturer**  
 The Garland Company, Inc.  
 3800 East 91st. Street  
 Cleveland, Ohio 44105-2197  
 Ph: (800) 762-8225 Fax: (216) 641-0633

Garland Canada, Inc.  
 1296 Martin Grove Rd.  
 Toronto, Ontario M9W 4X3  
 Ph: (416)747-7995 Fax: (416)747-1980

**Emergency Telephone Number** 1-800-762-8225 (24 Hrs.)

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Appearance** White.

**Physical State** Liquid.

**Odor** Slight.

**Mexico - Grade** Slight risk, Grade 1

### Potential Health Effects

**Principle Routes of Exposure** Eye contact, Skin contact.

### **Acute Effects**

**Eyes** May cause slight irritation.  
**Skin** Substance may cause slight skin irritation.  
**Inhalation** May cause irritation of respiratory tract.  
**Ingestion** Ingestion may cause irritation to mucous membranes.

**Chronic Effects** Repeated contact may cause allergic reactions in very susceptible persons.

See Section 11 for additional Toxicological information.

**Aggravated Medical Conditions** Not available.

**Interactions with Other Chemicals** Not available.

**Potential Environmental Effects** See Section 12 for additional Ecological information.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous Components

Chemical Name	CAS-No	Weight %	North American Hazard Indicator
Calcium Carbonate	1317-65-3	10 - 30	1
Zinc Oxide	1314-13-2	1 - 5	1

### 4. FIRST AID MEASURES

**Eye Contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

**Skin Contact** Wash off with warm water and soap.

**Inhalation** Move to fresh air.

**Ingestion** Drink 1 or 2 glasses of water. Do not induce vomiting. Consult a physician. Never give anything by mouth to an unconscious person.

**Notes to Physician** Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Not available

**Hazardous Combustion Products** Not available

#### Explosion Data

**Sensitivity to mechanical impact** No

**Sensitivity to static discharge** No

#### **Specific Hazards Arising from the Chemical**

No information available.

#### **Protective Equipment and Precautions for Firefighters**

Standard procedure for chemical fires.

**NFPA**

**Health 1**

**Flammability 0**

**Instability 0**

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions</b>	Use personal protective equipment.
<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Keep out of waterways.
<b>Methods for Containment</b>	Dike with inert absorbant material
<b>Methods for Cleaning Up</b>	Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly. After cleaning, flush away traces with water.
<b>Other Information</b>	Not applicable

## 7. HANDLING AND STORAGE

<b>Handling</b>	Wear personal protective equipment. Avoid contact with skin and eyes.
<b>Storage</b>	Keep container tightly closed in a dry and well-ventilated place. Keep at temperatures above 0°C.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	Ontario TWAEV	Mexico
Calcium Carbonate		TWA: 15 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	STEL: 20 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>
Zinc Oxide	TWA: 2 mg/m <sup>3</sup> STEL: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	STEL: 10 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>	STEL: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> TWA: 10 mg/m <sup>3</sup>

Chemical Name	NIOSH IDLH
Zinc Oxide	500 mg/m <sup>3</sup>

<b>Engineering Measures</b>	Do not allow ventilation equipment to draw material odors indoors.
<b>Personal Protective Equipment</b>	
<b>Eye/face Protection</b>	Tightly fitting safety goggles.
<b>Skin Protection</b>	Long sleeved clothing.
<b>Respiratory Protection</b>	No special protective equipment required. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

**Hygiene Measures**  
General industrial hygiene practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	White
<b>Odor</b>	Slight
<b>Physical State</b>	Liquid
<b>pH</b>	9.00
<b>Flash Point</b>	201°F (94°C)

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Autoignition Temperature</b>	Not available	
<b>Boiling Point/Range</b>	212°F (100°C)	
<b>Freezing Point</b>	32°F / 0°C	
<b>Flammability Limits in Air</b>	<b>Lower</b> Not available	<b>Upper</b> Not available
<b>Explosive Properties</b>	Not available	
<b>Oxidizing Properties</b>	Not available	
<b>Evaporation Rate</b>	slower than ether	
<b>Vapor Pressure</b>	Not available	
<b>Vapor Density</b>	Heavier than air	
<b>Specific Gravity</b>	1.307	
<b>Density</b>	10.91 lbs/gal (U.S.)	
<b>Water Solubility</b>	Soluble in water	
<b>Volatiles</b>	60.2%	
<b>VOC Content</b>	N/A	

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable.
<b>Conditions to Avoid</b>	Temperatures above 0°C.
<b>Incompatible Materials</b>	No materials to be especially mentioned.
<b>Hazardous Decomposition Products</b>	None under normal use.
<b>Possibility of Hazardous Reactions</b>	None under normal processing

## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity

#### **Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Zinc Oxide	5000 mg/kg Rat		

### Chronic Toxicity

<b>Carcinogenicity</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen
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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants

<b>Persistence/Degradability</b>	Not available
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**Bioaccumulation/ Accumulation** Not available

**Mobility in Environmental Media** Not available

### 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Method** Dispose of in accordance with local regulations

**Contaminated Packaging** Empty containers should be taken for local recycling, recovery or waste disposal

**US EPA Waste Number** Not available

### 14. TRANSPORT INFORMATION

**DOT** Not Regulated

**TDG** Not regulated

**MEX** Not regulated

**ICAO** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

### 15. REGULATORY INFORMATION

#### International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS
Calcium Carbonate	X	-	X	X	-	-	X	X	X	X
Zinc Oxide	X	X	-	X	-	X	X	X	X	X

**TSCA** Complies  
**DSL** Does not Comply  
**NDSL** Complies  
**EINECS** Does not Comply  
**ELINCS** Does not Comply  
**ENCS** Does not Comply  
**CHINA** Complies  
**KECL** Complies  
**PICCS** Complies  
**AICS** Complies

#### USA

#### Federal Regulations

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain any HAPs.

**State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**State Right-to-Know**

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Calcium Carbonate	X		X		X
Zinc Oxide	X	X	X		X

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**WHMIS Hazard Class**

Non-controlled

16. OTHER INFORMATION
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Preparation Date                      12-Dec-2006

Revision Date                            7-Jul-2010

Revision Summary                      Not available

## Disclaimer

The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of MSDS**