



since 1895

Material Safety Data Sheet

NFPA	WHMIS	PPE	Transport Symbol
			DOT Not Regulated

Preparation Date 19-Dec-2006

Revision Date 16-Apr-2007

Revision Number 4

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Mineral Lap Coating
Product Code 7827
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 Canda, 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

Harmful if swallowed
 May cause skin irritation and/or dermatitis
 Mild eye irritation

Appearance Blue green.

Physical State Liquid.

Odor Slight chlorine.

Mexico - Grade Slight risk, Grade 1

Potential Health Effects

Principle Routes of Exposure Eye contact, Skin contact.

Acute Effects

Eyes Contact with eyes may cause irritation.
Skin Substance may cause slight skin irritation.
Inhalation No information available.

Ingestion	May be harmful if swallowed.
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
Limestone	1317-65-3	30 - 60	1
Titanium dioxide	13463-67-7	5 - 10	1
Zinc Oxide	1314-13-2	5 - 10	1

4. FIRST AID MEASURES

Eye Contact	Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Inhalation	Move to fresh air in case of accidental inhalation of vapours.
Ingestion	Do not induce vomiting. Call a physician or Poison Control Centre immediately.
Notes to Physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Foam. Carbon dioxide (CO ₂). Dry chemical.
Unsuitable Extinguishing Media	Not available
Hazardous Combustion Products	Carbon monoxide, Carbon dioxide (CO ₂), Hydrocarbons.
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

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

NFPA

Health 1

Flammability 0

Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Evacuate personnel to safe areas. Avoid contact with the skin and the eyes.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Keep out of waterways. Local authorities should be advised if significant spillages cannot be contained.
Methods for Containment	Dam up
Methods for Cleaning Up	Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.
Other Information	Not applicable

7. HANDLING AND STORAGE

Handling	Avoid contact with skin, eyes and clothing. Wear personal protective equipment.
Storage	Keep tightly closed in a dry and cool place. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	Ontario TWAEV	Mexico
Limestone		TWA: 15 mg/m ³ TWA: 5 mg/m ³	TWA: 10 mg/m ³	STEL: 20 mg/m ³ TWA: 10 mg/m ³
Titanium dioxide	TWA: 10 mg/m ³	TWA: 15 mg/m ³	TWA: 10 mg/m ³	STEL: 20 mg/m ³ TWA: 10 mg/m ³
Zinc Oxide	TWA: 2 mg/m ³ STEL: 10 mg/m ³	TWA: 15 mg/m ³ TWA: 5 mg/m ³	STEL: 10 mg/m ³ TWA: 2 mg/m ³	STEL: 10 mg/m ³ TWA: 5 mg/m ³ TWA: 10 mg/m ³

Chemical Name	NIOSH IDLH
Titanium dioxide	5000 mg/m ³
Zinc Oxide	500 mg/m ³

Engineering Measures	Do not allow ventilation equipment to draw material odors indoors..
-----------------------------	---

Personal Protective Equipment

Eye/face Protection	Safety glasses with side-shields.
Skin Protection	Long sleeved clothing. Impervious gloves.
Respiratory Protection	No special protective equipment required.

Hygiene Measures

Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Blue green	
Odor	Slight chlorine	
Physical State	Liquid	
pH	< 10	
Flash Point	Not applicable	
Autoignition Temperature	Not available	
Boiling Point/Range	Not available	
Freezing Point	Not available	
Flammability Limits in Air	Lower Not available	Upper Not available
Explosive Properties	Not available	
Oxidizing Properties	Not available	
Evaporation Rate	Not available	
Vapor Pressure	Not available	
Vapor Density	Not available	
Specific Gravity	Not available	
Water Solubility	Miscible with water	
Volatiles	Not available	

10. STABILITY AND REACTIVITY

Stability	Stable.
Conditions to Avoid	No information available.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Carbon monoxide. Carbon dioxide (CO ₂). Organic materials.
Possibility of Hazardous Reactions	Hazardous polymerisation does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Titanium dioxide	10000 mg/kg Rat		
Zinc Oxide	5000 mg/kg Rat		

Chronic Toxicity

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen

Chemical Name	ACGIH	IARC	NTP	OSHA	Mexico
Titanium dioxide		Group 2B		X	

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

Persistence/Degradability Not available

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
Limestone	X	-	X	X	-	-	X	X	X	X
Titanium dioxide	X	X	-	X	-	X	X	X	X	X
Zinc Oxide	X	X	-	X	-	X	X	X	X	X

TSCA	Complies
DSL	Does not Comply
NDSL	Does not Comply
EINECS	Complies
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 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**

WARNING: This product contains a chemical(s) known to the State of California to cause cancer.

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Limestone	X		X		X
Titanium dioxide	X	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

D2B Toxic materials

16. OTHER INFORMATION

Preparation Date 19-Dec-2006
 Revision Date 16-Apr-2007
 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