



Solex

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: 10/08/2015

Version: 1.0

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Solex

Product Code: 7468

Intended Use of the Product

Environmentally-friendly, reflective roof coating. For professional-use only

Name, Address, and Telephone of the Responsible Party

Manufacturer

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

Supplier

The Garland Company, Inc.
3800 East 91st Street
Cleveland, Ohio 44105-2197
T-800-762-8225
F-216-641-0633

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)

Flam. Liq. 4 H227

Skin Corr. 2 H315

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.

Precautionary Statements (GHS-US)

: P210 – Keep away from heat/sparks/open flames/hot surfaces – No smoking.
P264 – Wash hands thoroughly after handling. Wash contaminated work clothing before reuse.
P280 – Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P321 - Specific treatment (see supplemental first aid instructions on this label).
P332 + P313 - If skin irritation occurs: Get medical advice/attention.
P362 - Take off contaminated clothing and wash before reuse.
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction
P403 + P235 - Store in a well-ventilated place. Keep cool.
P501 - Dispose of contents/container to an approved waste disposal plant.

Unknown Acute Toxicity (GHS-US)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	Product identifier	% (w/w)	Classification (GHS-US)
Titanium Dioxide	(CAS No) 13463-67-7	10-30	Skin Irrit. 2, H315
Dipropylene Glycol MM Ether	(CAS No) 34590-94-8	5-10	Flam. Liq. 4, H227
Water	(CAS No) 7731-18-5	10-30	
Acrylic Copolymer	Mixture	5-10	
Fluoropolymer	Mixture	30-60	

Full text of H-Phrases: See Section 16

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

First-aid Measures General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice

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(show the label where possible). IF exposed or concerned: Get medical advice/attention.

First-aid Measures After Inhalation: Move to fresh air.

First-aid Measures After Skin Contact: Wash off with warm water and soap.

First-aid Measures After Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

First-aid Measures After Ingestion: Do not induce vomiting. Consult a physician. Never give anything by mouth to an unconscious person.

Indication of Any Immediate Medical Attention and Special Treatment Needed

If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon dioxide (CO₂). Foam. Dry powder.

Unsuitable Extinguishing Media: Not available.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not available.

Explosion Hazard: Not available.

Reactivity: Not available.

Advice for Firefighters

Firefighting Instructions: Exercise caution when fighting any chemical fire.

Protection During Firefighting: Not available.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Use personal protective equipment.

For Non-emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Responders

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Ventilate area.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Keep out of waterways.

Methods and Material for Containment and Cleaning Up

For Containment: Contain with inert absorbent material.

Methods for Cleaning Up: Dike with inert absorbent material. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Precautions for Safe Handling: Wear personal protective equipment. Avoid contact with skin and eyes.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work.

Conditions for Safe Storage, Including Any Incompatibilities

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep at temperatures above 0°C.

Incompatible Materials: Not available.

Storage Area: Not available.

Specific End Use(s)

Environmentally-friendly, reflective roof coating.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Chemical Name	ACGIH TLV	OSHA PEL	Ontario TWAEV	Mexico
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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
Dipropylene Glycol MM Ether	TWA: 100 ppm STEL: 150 ppm Skin	TWA: 600 mg/m ³ TWA: 100 ppm Skin	STEL: 910 mg/m ³ STEL: 150 ppm TWA: 605 mg/m ³ TWA: 100 ppm	STEL: 900 mg/m ³ STEL: 150 ppm TWA: 60 mg/m ³ TWA: 100 ppm

Chemical Name	NIOSH IDLH
Titanium dioxide	5000 mg/m ³
Dipropylene Glycol MM Ether	600 ppm

Exposure Controls

Appropriate Engineering Controls: Do not allow ventilation equipment to draw material odors indoors

Personal Protective Equipment: Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



Hand Protection: Protective gloves.

Eye Protection: Tightly fitting safety goggles.

Skin and Body Protection: Long sleeved clothing.

Respiratory Protection: No special protective equipment required. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Other Information: When using, do not eat, drink, or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: White
Odor	: Slight
Odor Threshold	: Not available
pH	: 8.5
Relative Evaporation Rate (butyl acetate = 1)	: Not available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: 212°F / 100°C
Flash Point	: 174°F/79°C
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: >1 mmHg
Relative Vapor Density at 68°F (20°C)	: <1
Relative Density	: Not available
Specific Gravity	: 1.2575
Solubility	: slightly soluble
Partition coefficient: n-octanol/water	: Not available
Viscosity	: Not available
Explosion Data – Sensitivity to Mechanical Impact	: Not available
Explosion Data – Sensitivity to Static Discharge	: Not available
Volatile Organic Compounds	: >50 g/L

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Stable.

Chemical Stability: Stable under ordinary conditions of use and storage.

Possibility of Hazardous Reactions: None under normal processing.

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Conditions to Avoid: Temperatures above 0°C.

Incompatible Materials: No materials to be especially mentioned.

Hazardous Decomposition Products: None under normal processing.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects – Ingredient(s)

LD50 and LC50 Data

Component Information

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

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	

SECTION 12: ECOLOGICAL INFORMATION

Toxicity – Ingredients

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

Dipropylene Glycol MM Ether

Water Flea Data

Daphnia magna LC50=1919 mg/L (48 h)

Dipropylene Glycol MM Ether

log Pow = -0.064

Persistence and Degradability

Not established.

Bioaccumulative Potential – Product

Not established.

Mobility in Soil

No additional information available.

Other Adverse Effects

Other Information: No additional information available.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of in accordance with local, state, and federal regulations.

Additional Information: Prevent runoff from entering drains, sewers, or waterways.

SECTION 14: TRANSPORT INFORMATION

In Accordance with DOT

Special Provisions : Not Regulated

Proper Shipping Name :

Hazard Class :

Identification Number :

In Accordance with IMDG

Proper Shipping Name : Not Regulated

Hazard Class :

Identification Number :

Packing Group :

In Accordance with IATA

Proper Shipping Name : Not Regulated

Hazard Class :

Identification Number :

Packing Group :

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In Accordance with TDG

Special Provisions : Not Regulated
Proper Shipping Name :
Hazard Class :
Identification Number :
Packing Group :

SECTION 15: REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS
Titanium dioxide	X	X	X	X	X	X	X	X	X	X
Dipropylene Glycol MM Ether	X	X	X	X	X	X	X	X	X	X
Water	X	X	X	X	X	X	X	X	X	X
Acrylic Copolymer	X	X	X	X	X	X	X	X	X	X
Fluoropolymer	X	X	X	X	X	X	X	X	X	X

TSCA Complies
DSL Complies
NDSL Complies
EINECS Complies
ELINCS Complies
ENCS Complies
CHINA Complies
KECL Complies
PICCS Complies
AICS Complies

US 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.

US 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
Titanium dioxide	X	X	X		X
Dipropylene Glycol MM Ether	X	X	X		X

Canadian Regulations

Solex
Non-controlled

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision date : 10/09/2015

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

Party Responsible for the Preparation of This Document

The Garland Company, Inc.
3800 East 91st Street

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Cleveland, Ohio 44105-2197

T-800-762-8225

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.

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