





since 1895

Material Safety Data Sheet

NFPA	WHMIS	PPE	Transport Symbol
			Not Regulated

Preparation Date 12-Dec-2006

Revision Date 11-May-2010

Revision Number 4

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Solex
Product Code 7468
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

This material can cause severe eye irritation, redness, tearing or blurred vision.

Skin Substance may cause 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 Preexisting eye, skin and respiratory disorders may be aggravated by exposure to this chemical.

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
Dipropylene Glycol MM Ether	34590-94-8	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 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. Carbon dioxide (CO₂). Foam. Dry powder. Water Fog.

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 2****Instability 1****6. ACCIDENTAL RELEASE MEASURES**

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

7. HANDLING AND STORAGE

Handling	Wear personal protective equipment. Avoid contact with skin and eyes.
Storage	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep at temperatures above 0°C.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH TLV	OSHA PEL	Ontario TWAEV	Mexico
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
Dipropylene Glycol MM Ether	600 ppm

Personal Protective Equipment**Eye/face Protection**

Tightly fitting safety goggles.

Skin 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.

Hygiene Measures

General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White
Odor	Slight

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
pH	8.70
Flash Point	201°F / 93.9°C
Autoignition Temperature	No data available
Boiling Point/Range	212°F - 378°F / 100°C - 192.2°C
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	> 1 mmHg @ 0°F
Vapor Density	< 1
Specific Gravity	1.2585
Water Solubility	slightly soluble
Volatiles	Not available
VOC Content	134 g/l (1.12 lb/gal)

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Chronic Toxicity

Carcinogenicity

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

12. ECOLOGICAL INFORMATION

Ecotoxicity

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)

Persistence/Degradability	Not available
Bioaccumulation/ Accumulation	Not available
Mobility in Environmental Media	Not available

Dipropylene Glycol MM Ether

log Pow = -0.064

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

<u>DOT</u>	Not Regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS
Dipropylene Glycol MM Ether	X	X	-	X	-	X	X	X	X	X

TSCA	Complies
DSL	Complies
NDSL	Complies
EINECS	Complies
ELINCS	Does not Comply
ENCS	Complies
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

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Dipropylene Glycol MM Ether	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

Preparation Date 12-Dec-2006

Revision Date 11-May-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