



since 1895

Material Safety Data Sheet

NFPA	WHMIS	PPE	Transport Symbol
			Not regulated, non-bulk

Preparation Date 08-Dec-2006

Revision Date 02-Apr-2012

Revision Number 9

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Seal-A-Pore®
Product Code 1711
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

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209 Carrier Dr.
Toronto, Ontario M9W 5Y8
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Emergency Telephone Number 1-800-762-8225 (24 Hrs.)

2. HAZARDS IDENTIFICATION

Emergency Overview

Combustible material

Appearance - Colorless

Physical State - Liquid

Odor - Petroleum distillates

Mexico - Grade

Moderate risk, Grade 2

Potential Health Effects

Principle Routes of Exposure Eye contact. Skin contact. Inhalation. Ingestion.

Acute Effects

Eyes

Avoid contact with eyes.

Skin

May cause eye/skin irritation.

Inhalation

May cause irritation of respiratory tract.

Ingestion

Ingestion can 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 Skin disorders. Liver disorders. Kidney disorders. Central nervous system.

Interactions with Other Chemicals Not available

Potential Environmental Effects See Section 12 for additional Ecological information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %
Ethyl Benzene	100-41-4	1 - 5
Nonane	111-84-2	1 - 5
Isooctyl trimethoxy silane	34396-03-7	1 - 5
Methanol	67-56-1	0.1 - 1
Naphthalene	91-20-3	0.1 - 1
Stoddard solvent	8052-41-3	60 - 100
Pseudocumene	95-63-6	1 - 5

4. FIRST AID MEASURES

General Advice	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance. Remove from exposure, lie down.
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Remove from exposure, lie down. Call a physician immediately.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Inhalation	Move to fresh air. Call a physician immediately.
Ingestion	Do not induce vomiting. Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person.
Notes to Physician	Treat symptomatically.
Protection of First-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing. Remove all sources of ignition.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Foam. Dry powder. Dry chemical. Carbon dioxide (CO2).
Unsuitable Extinguishing Media	Do not use a solid water stream as it may scatter and spread fire.
Hazardous Combustion Products	Carbon monoxide, Carbon dioxide (CO2), Hydrocarbons.
Explosion Data	
Sensitivity to mechanical impact	No
Sensitivity to static discharge	Yes

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

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. Standard procedure for chemical fires.

NFPA

Health 1

Flammability 2

Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
Methods for Containment	Dike with inert absorbent material
Methods for Cleaning Up	Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Other Information	Not applicable

7. HANDLING AND STORAGE

Handling	Wear personal protective equipment. Do not breathe vapors or spray mist. Ensure adequate ventilation. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded.
Storage	Keep in properly labeled containers. Keep tightly closed in a dry and cool place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	Ontario TWAEV	Mexico
Ethyl Benzene	TWA: 100 ppm STEL: 125 ppm	TWA: 100 ppm TWA: 435 mg/m ³	STEL: 540 mg/m ³ STEL: 125 ppm TWA: 100 ppm TWA: 435 mg/m ³	STEL: 125 ppm STEL: 545 mg/m ³ TWA: 100 ppm TWA: 435 mg/m ³
Nonane	TWA: 200 ppm		TWA: 1050 mg/m ³ TWA: 200 ppm	STEL: 250 ppm STEL: 1300 mg/m ³ TWA: 200 ppm TWA: 1050 mg/m ³
Methanol	TWA: 200 ppm STEL: 250 ppm Skin	TWA: 260 mg/m ³ TWA: 200 ppm	STEL: 250 ppm STEL: 325 mg/m ³ TWA: 200 ppm TWA: 260 mg/m ³ Skin	STEL: 310 mg/m ³ STEL: 250 ppm TWA: 260 mg/m ³ TWA: 200 ppm

Chemical Name	ACGIH TLV	OSHA PEL	Ontario TWAEV	Mexico
Naphthalene	TWA: 10 ppm STEL: 15 ppm Skin	TWA: 50 mg/m ³ TWA: 10 ppm	STEL: 78 mg/m ³ STEL: 15 ppm TWA: 10 ppm TWA: 52 mg/m ³	STEL: 75 mg/m ³ STEL: 15 ppm TWA: 50 mg/m ³ TWA: 10 ppm
Stoddard solvent	TWA: 100 ppm	TWA: 2900 mg/m ³ TWA: 500 ppm	TWA: 525 mg/m ³	STEL: 200 ppm STEL: 1050 mg/m ³ TWA: 523 mg/m ³ TWA: 100 ppm

Chemical Name	NIOSH IDLH
Ethyl Benzene	800 ppm
Methanol	6000 ppm
Naphthalene	250 ppm
Stoddard solvent	20000 mg/m ³

IDLH: Immediately Dangerous to Life or Health

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Tightly fitting safety goggles. Safety glasses with side-shields.
Skin Protection Long sleeved clothing. Chemical resistant apron. Impervious butyl rubber gloves.
Break through time. .?. Lightweight protective clothing. Antistatic boots.
Respiratory Protection Wear a positive-pressure supplied-air respirator.

Hygiene Measures

When using, do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless	
Odor	Petroleum distillates	
Physical State	Liquid	
pH	Not available	
Flash Point	105°F / 41°C	
Method	Tag closed cup	
Autoignition Temperature	540°F / 282°C	
Boiling Point/Range	300-390°F / 149-199°C	
Freezing Point	Not available	
Flammability Limits in Air	Lower Not available	Upper Not available
Explosion Limits	Lower 0.8%	Upper 5.0%
Explosive Properties	Not available	
Oxidizing Properties	Not available	
Evaporation Rate	40x slower (ether = 1)	
Vapor Pressure	5 mmHg	
Vapor Density	3.9 @ Air = 1	
Specific Gravity	0.81	
Water Solubility	slightly soluble	
Volatiles	87-91%	
VOC Content	760 g/L	

10. STABILITY AND REACTIVITY

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Stability	Stable under recommended storage conditions. Hazardous polymerization does not occur.
Conditions to Avoid	Keep away from heat, sparks and open flames. Heating in air.
Incompatible Materials	Strong oxidizing agents.
Hazardous Decomposition Products	Carbon oxides.
Possibility of Hazardous Reactions	Hazardous polymerization does not occur

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethyl Benzene	3500 mg/kg Rat	15354 mg/kg Rabbit	17.2 mg/L Rat 4 h
Nonane			3200 ppm Rat 4 h
Methanol	5628 mg/kg Rat	15800 mg/kg Rabbit	64000 ppm Rat 4 h 83.2 mg/L Rat 4 h
Naphthalene	490 mg/kg Rat	2500 mg/kg Rat 20 g/kg Rabbit	340 mg/m ³ Rat 1 h
Pseudocumene	3400 mg/kg Rat	3160 mg/kg Rabbit	18 g/m ³ Rat 4 h

Chronic Toxicity

Carcinogenicity

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

Chemical Name	ACGIH	IARC	NTP	OSHA	Mexico
Ethyl Benzene	A3	Group 2B		X	
Naphthalene		Group 2B	Reasonably Anticipated	X	

12. ECOLOGICAL INFORMATION

Ecotoxicity

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

Ethyl Benzene

Freshwater Algae Data

Selenastrum capricornutum EC50=4.6 mg/L (72 h)

Selenastrum capricornutum EC50>438 mg/L (96 h)

Microtox Data

Photobacterium phosphoreum EC50=9.68 mg/L (30 min)

Nitrosomonas EC50=96 mg/L (24 h)

Water Flea Data

Daphnia magna EC501.8 - 2.4 mg/L (48 h)

Methanol

12. ECOLOGICAL INFORMATION**Microtox Data***Photobacterium phosphoreum* EC50=39000 mg/L (25 min)*Photobacterium phosphoreum* EC50=40000 mg/L (15 min)*Photobacterium phosphoreum* EC50=43000 mg/L (5 min)**Naphthalene****Freshwater Algae Data***Skeletonema costatum* EC50=0.4 mg/L (96 h)**Microtox Data***Photobacterium phosphoreum* EC50=0.93 mg/L (30 min)*Pseudomonas putida* EC50>20 mg/L (18 h)**Water Flea Data**

water flea EC50=2.16 mg/L (48 h)

Pseudocumene**Water Flea Data***Daphnia magna* EC50=6.14 mg/L (48 h)**Persistence/Degradability**

Not available

Bioaccumulation/ Accumulation

Not available

Mobility in Environmental Media

Not available

Ethyl Benzene

log Pow = 3.118

Methanol

log Pow = -0.77

Naphthalene

log Pow = 3.3

Pseudocumene

log Pow = 3.63

13. DISPOSAL CONSIDERATIONS**Waste Disposal Method**

Should not be released into the environment. It must undergo special treatment, e.g. at suitable disposal site, to comply with local regulations.

Contaminated Packaging

Clean container with water. Empty containers should be taken for local recycling, recovery or waste disposal.

US EPA Waste Number

D001

Chemical Name	RCRA
Naphthalene - 91-20-3	waste number U165

14. TRANSPORT INFORMATION**DOT**

Not regulated, non-bulk

14. TRANSPORT INFORMATION

Special Provisions	Not Regulated for non-bulk packaging of 450 liters (119 gallons) or less (DOT 49 CFR 173.150(f)) BULK> 119 gallon container: Tars, liquid, UN1999, PG III
TDG	Not regulated, Non-bulk
Special Provisions	Not Regulated for non-bulk packaging of 450 liters (119 gallons) or less (DOT 49 CFR 173.150(f)) BULK> 119 gallon container: Combustible liquids, N.O.S. (Mineral Spirits); NA1993; Class 3; P.G. III
MEX	Not regulated
ICAO	
UN-No	UN1993
Proper Shipping Name	Flammable liquid, n.o.s
Hazard Class	3
Packing Group	III
IATA	
UN-No	UN1993
Proper Shipping Name	Flammable liquid, n.o.s
Hazard Class	3
Packing Group	III
IMDG/IMO	
UN-No	UN1993
Proper Shipping Name	Flammable liquid, n.o.s
Hazard Class	3
Packing Group	III

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	CHINA	KECL	PICCS	AICS
Ethyl Benzene	X	X	-	X	-	X	X	X	X	X
Nonane	X	X	-	X	-	X	X	X	X	X
Isooctyl trimethoxy silane	X	X	-	X	-	-	X	X	X	X
Methanol	X	X	-	X	-	X	X	X	X	X
Naphthalene	X	X	-	X	-	X	X	X	X	X
Stoddard solvent	X	X	-	X	-	-	X	X	X	X
Pseudocumene	X	X	-	X	-	X	X	X	X	X

TSCA	Complies
DSL	Complies
NDSL	Complies
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 contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372:

Chemical Name	SARA 313 - Threshold Values
Ethyl Benzene (CAS #: 100-41-4)	0.1%
Methanol (CAS #: 67-56-1)	1.0%
Naphthalene (CAS #: 91-20-3)	0.1%
Pseudocumene (CAS #: 95-63-6)	1.0%

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

This product contains the following HAPs:

Chemical Name

Ethyl Benzene (CAS #: 100-41-4)

Methanol (CAS #: 67-56-1)

Naphthalene (CAS #: 91-20-3)

State Regulations**California Proposition 65**

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

Chemical Name	CAS-No	Category	Type
Ethyl Benzene	100-41-4	Carcinogen	
Naphthalene	91-20-3	Carcinogen	

State Right-to-Know

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ethyl Benzene	X	X	X	X	X
Nonane	X	X	X		X
Methanol	X	X	X	X	X
Naphthalene	X	X	X	X	X
Stoddard solvent	X	X	X		X
Pseudocumene	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

B3 Combustible liquid

Chemical Name	NPRI
Naphthalene	X
Pseudocumene	X

Legend

NPRI - National Pollutant Release Inventory

16. OTHER INFORMATION

Revision Date 02-Apr-2012

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