
STATE OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

In the Matter of the Petition of
Seaboard Asphalt Products Company
for a Declaratory Ruling

ATTACHMENTS

Seaboard Asphalt Products Company



3601 FAIRFIELD ROAD
BALTIMORE, MARYLAND 21226
410-355-0330 • 800-536-0332 • FAX 410-355-5864

June 22, 2007

Department of Environmental Conservation
625 Broadway
Albany, New York 12233-0001

REF: Petition for Declaratory Ruling

Attention: General Counsel

I would like to thank you for taking your valuable time to review the following Petition for Declaratory Ruling. I am writing to provide information for this Petition in accordance with Chapter VI General Regulations Part 619.

1. NAME AND ADDRESS OF PETITIONER:

Seaboard Asphalt Products Company
3601 Fairfield Road
Baltimore, Maryland 21226

RECEIVED

JUN 25 2007

**OFFICE OF
GENERAL COUNSEL**

STATEMENT OF INTEREST: Seaboard Asphalt is the manufacturer of the product for review---LN-11 Equinox Asphalt Gilsonite Sealer.

2. DESCRIPTION OF RELEVANT FACTS AND CIRCUMSTANCES:

- a. LN-11 is an Architectural and Industrial Maintenance (AIM) Coating; which falls under regulation of Part 205 of the NYSDEC Rules and Regulations. The LN-11 has been reviewed by Legal Counsels of other OTC VOC States for categorization under AIM Regulations and all of them have determined that the LN-11 demonstrates that it should be categorized as a "Waterproofing Concrete / Masonry Sealer" with a VOC limit of 400 g/L. Included in this package; Attachment A, B and C are copies of some those Rulings. Seaboard Asphalt would like to request that the NYS DEC recognize the LN-11 under the same AIM Coatings categorization as other OTC VOC States as a "Waterproofing Concrete / Masonry Sealer".
- b. LN-11 should not be included under regulation of NYSDEC Rules and Regulations under Part 211. Part 211 is applicable to asphalt cutbacks used for paving. LN-11 cannot be used for paving. Included in the package; Attachment D demonstrates why LN-11 cannot be used for paving.

SCANNED

JUN 24 2007

DOCS # 267436

3. DESCRIPTION OF RELEVANT DOCUMENTS INCLUDED IN THIS PACKAGE:

- a. Attachment A ---copy of Commonwealth of Pennsylvania Ruling.
- b. Attachment B---copy of Commonwealth of Virginia Ruling.
- c. Attachment C---copy of State of Delaware Ruling.
- d. Attachment D---copy of not eligible for paving information.
- e. Attachment E---copy of LN-11 Product Data Sheet.
- f. Attachment F---copy of Bill of Lading. A label is not being provided because the product is not sold in packaged quantities in NY State. LN-11 is sold in bulk tank trucks to distributors in NY State. LN-11 is not sold directly to retail customers or contractors.
- g. A copy of marketing literature is not included because Seaboard Asphalt does not market this product in NY State.

I look forward to your review and response on our Petition. If you have any additional questions, please do not hesitate to contact me at 800-536-0332 or via email at sales@seaboardasphalt.com.

Sincerely,



Shawn R. Campbell
VP, Sales

Shawn Campbell

Attachment A

From: Campfield, Kristen [kcampfield@state.pa.us]
Sent: Friday, April 15, 2005 1:32 PM
To: shawn.campbell@seboardasphalt.com
Cc: Black, Terry
Subject: Seboard Asphalt's LN-11

Dear Mr. Campbell:

This email confirms our conversation of April 15, 2005 regarding the requirements of the Department's architectural and industrial maintenance coatings (AIM) regulation, at 25 Pa. Code §§130.601 to 130.611. In our conversation, I informed you that the materials you submitted to the Department on April 12, 2005 demonstrate to the Department's satisfaction that Seboard's LN-11 Equinox Asphalt Gilsonite Rejuvenator will be considered a "waterproofing concrete/masonry sealer" in Pennsylvania if labeled in accordance with the definition of "waterproofing concrete/masonry sealer" in 25 Pa. Code §130.602. The Department will accept label information on an invoice instead of on a container label for tanker truck-size containers. "Waterproofing concrete/masonry sealers" are subject to a VOC content limit of 400 grams per liter in Pennsylvania, under 25 Pa. Code §130.603.

If you have any questions, please do not hesitate to contact Terry Black at (717) 787-2030 or me.

Kristen Campfield
Assistant Counsel
Bureau of Regulatory Counsel
Pennsylvania Department of Environmental Protection
400 Market Street
Harrisburg PA 17101
ph: (717) 787-7060
fax: (717) 783-7911
kcampfield@state.pa.us



COMMONWEALTH of VIRGINIA

W. Tayloe Murphy, Jr.
Secretary of Natural Resources

DEPARTMENT OF ENVIRONMENTAL QUALITY
Street address: 629 East Main Street, Richmond, Virginia 23219
Mailing address: P. O. Box 10009, Richmond, Virginia 23240
Fax (804) 698-4500 TDD (804) 698-4021
www.deq.virginia.gov

Robert G. Burnley
Director
(804) 698-4000
1-800-592-5482

May 23, 2005

Mr. Shawn R. Campbell
Seaboard Asphalt Products Company
3601 Fairfield Road
Baltimore, Maryland 21266

Re: Clarification of Seaboard Asphalt Products Company's LN-11 Equinox Asphalt Gilsonite Driveway Sealer product applicability under Virginia's AIM Rule.

Dear Mr. Campbell:

This letter is written in response to your May 4, 2005 request for clarification concerning the applicability of Virginia's Architectural and Industrial Maintenance (AIM) Coating rule to Seaboard's LN-11 Equinox Asphalt Gilsonite Driveway Sealer product.

Virginia's AIM rule (Article 49, Chapter 40 of the Virginia Regulations for the Control and Abatement of Air Pollution, 9 VAC 5-40-7120 et seq.) applies to any person who supplies, sells, offers for sale, or manufactures any architectural coating for use within the Northern Virginia VOC emissions control area.

After a careful review of Seaboard's formulation and labeling of these products, the Department agrees that Seaboard's LN-11 Equinox Asphalt Gilsonite Driveway Sealer product properly belongs to the "waterproofing concrete/masonry sealer" coating category of architectural coatings within the meaning of that definition in subsection 7130 C of the rule and is subject to the 400 g VOC/L coating limit in Table 4-49A of 9 VAC 5-40-7140 B.

Your concern for Virginia's air quality is appreciated.

Sincerely,

A handwritten signature in black ink, appearing to read 'R. A. Mann', written in a cursive style.

Robert A. Mann

Director

Office of Air Regulatory Development

cc: John M. Daniel, Jr., Director, Air Division
Gary Graham, DEQ OARD

Attachment C



STATE OF DELAWARE
DEPARTMENT OF NATURAL RESOURCES
& ENVIRONMENTAL CONTROL
DIVISION OF AIR AND WASTE MANAGEMENT
156 SOUTH STATE STREET
DOVER, DELAWARE 19901

CLEAN AIR
DEPENDS ON
YOU
DEPEND ON
CLEAN AIR

AIR QUALITY MANAGEMENT
SECTION
August 3, 2005

Telephone: (302) 739 - 9402
Fax No.: (302) 739 - 3106

Mr. Shawn Campbell
Director of Sales
Seaboard Asphalt Products Company
3601 Fairfield Road
Baltimore, MD 21226

Dear Mr. Campbell,

You requested an interpretation of how Section 1 of Delaware Regulation 41, "Architectural and Industrial Maintenance Coatings," applies to one of your products, Equinox Driveway Sealer LN-11.

We have reviewed the literature you supplied in a May 3, 2005 letter, and information on your website (<http://www.seboardasphalt.com>) concerning Equinox Driveway Sealer LN-11. Based on this information, your product is covered by the "Waterproofing concrete/masonry sealer" category, which has a VOC content limit of 400 grams per liter (calculated by the EPA method of excluding water and exempt compounds).

Based upon this determination, Seaboard Asphalt's LN-11 Driveway Sealer will be regulated under the Waterproofing concrete/masonry sealer category and must comply with the appropriate limits and terms.

Sincerely,

A handwritten signature in cursive script that reads "Raymond H. Malenfant".

Raymond Malenfant, P.E.
Program Manager

cc: Ozone Transport Commission
Valerie Gray
Gene Pettingill

Delaware's good nature depends on you!

Printed on
Recycled Paper

Attachment D

SEABOARD ASPHALT PRODUCTS COMPANY

STATEMENT OF USAGE LIMITATIONS

LN-11 EQUINOX ASPHALT GILSONITE SEALER

The LN-11 EQUINOX ASPHALT GILSONITE SEALER cannot be used for paving or the paving process. The use of asphalt cutbacks in paving and the paving process is to act as a tack coating adhesive for the application of hot mix asphalt or cold mix asphalt in new construction and asphalt overlay applications. LN-11 cannot be used for this purpose and would not work for either application.

The LN-11 is manufactured with asphalt whose penetration level is 0-8 PENS. The penetration of asphalt used for paving ranges from 60 -70 PENS. The asphalt used in manufacturing the LN-11 is much too hard to be used for paving. The pavement would become brittle and crack with traffic upon contact.

The LN-11 is manufactured with asphalt whose softening point is 200-210⁰ F. The softening point of asphalt used for paving is 120-130⁰ F. The asphalt used in manufacturing the LN-11 has softening much too high to be used for paving. The application equipment would not be able keep this product hot enough to keep it pliable for application in the paving process.

The specifications included in Attachment E of this package do not meet Construction Specifications for the New York State Department of Transportation for use in paving. The LN-11 is not approved for use in paving.

The distributors, wholesalers, and contractors who use this product do not use LN-11 for paving and would not work for paving applications.

Attachment E

SEABOARD ASPHALT PRODUCTS COMPANY

PRODUCT DATA ASPHALT SEALER

LN-11 EQUINOX ASPHALT GILSONITE SEALER

PRODUCT DESCRIPTION:	Seaboard Equinox Sealer is a film forming waterproof asphalt sealer formulated to meet Federal Specification TTC-494 Types I, II, and III.	
BASIC USES:	Seaboard Equinox Sealer is used as a tough and weather resistant pigmented coating on all types of steel, piping, industrial equipment chassis, radiators, burial vaults, concrete pre-cast, septic tanks, and concrete manholes, masonry and bituminous concrete surfaces. Equinox Sealer provides resistance against water, alkalis, acids ultraviolet light and staining.	
LIMITATIONS:	DO NOT HEAT container. Equinox cannot be used for paving. Maximum VOC OF 400 g/L.	
APPLICATION:	Seaboard Equinox Sealer may be brush, squeegee or spray applied onto a clean and dry surface. This material dries in one hour and cures in approximately five hours.	
STORAGE:	Seaboard Equinox Sealer should be kept in a warm area before usage during cold seasons, but this material can be used year round and the only protection would be from weathering on the container.	
COMPOSITION:	Asphalt	CAS 8052-42-4
	Solvent	CAS 64741-41-9
	Gilsonite	CAS 12002-43-6

This information is to assist customers in determining if this product is suitable for the proposed application, and to satisfy themselves as to the suitability of the contents. Nothing herein shall constitute a warranty, express or implied, including any warranty of merchantability or fitness, nor is protection from law or patent implied.

3601 FAIRFIELD ROAD
BALTIMORE, MARYLAND 21226
(410) 355-0330
(800) 536-0332
FACSIMILE (410) 355-5864

Attachment F

Seaboard Asphalt Products Company

3601 FAIRFIELD ROAD
 BALTIMORE, MARYLAND 21226
 Phone 410-355-0330
 Fax 410-355-5864

EMERGENCY PHONE NUMBER
CHEMTREC
1-800-424-9300
FOR
SPILL LEAK FIRE,
EXPOSURE OR ACCIDENT

CUSTOMER'S ORDER No.

DATE SHIPPED

SOLD TO:

GROSS

SHIPPED TO:

TARE

NET

ROUTE

CUSTOMER

ASPHALT CUTBACK COMBUSTIBLE LIQUID NA - 1999

QUANTITY	PRODUCT CODE	CONTAINERS	DESCRIPTION	GALLONS
	LN-11	Bulk	Equinox Asphalt Sealer	
			WATERPROOFING CONCRETE / MASONRY SEALER	
			MAXIMUM VOC CONTENT LIMIT 400 g/L	
SAMPLE				

OUR PRODUCTS ARE QUALITY CONTROLLED TO MEET WITH OUR RIGID SPECIFICATIONS. WE ARE NOT LIABLE FOR ANY DAMAGES RESULTING FROM THE USE OF THESE PRODUCTS.

NOTE:
 PRICES SUBJECT TO CHANGE WITHOUT NOTICE

RECEIVED IN GOOD ORDER
 BY _____

DELIVERY TICKET

Seaboard Asphalt Products Company



355-0330-0331

1-800-536-0332
Fax: (410) 355-5864

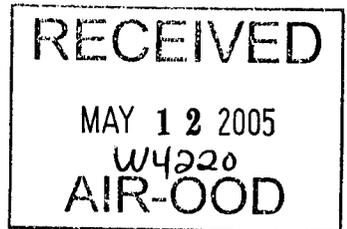
3601 FAIRFIELD ROAD

BALTIMORE, MARYLAND 21226

May 4, 2005

Department of Environmental Conservation
Director of Air Resources
625 Broadway
Albany, New York 12233

Attention: Dave Shaw



I would like to thank you again to for reviewing information relating to the Request for Acceptance by Seaboard Asphalt for the LN-11 EQUINOX ASPHALT GILSONITE REJUVENATOR. I am writing to provide additional information to demonstrate that this product conforms to the Pennsylvania Code for VOC Compliance Category for WATERPROOF CONCRETE / MASONRY SEALER with an obtainable VOC level of 400 grams/liter.

The LN-11 EQUINOX ASPHALT GILSONITE REJUVENATOR is also marketed as LN-12 ASPHALT GILSONITE PAINT. The products are marketed to target market segments including concrete (including bituminous concrete) and masonry applications. The products are the same, but labeled differently to establish two separate market price points. The price points are established to cover associated costs with the LN-12 for certification to the FEDERAL SPECIFICATION TTC-494 Types I, II and III. This is the Federal Specification requirement for Concrete Waterproofing Sealer Requirements. I have provided our product data sheet, which shows the certification meeting this Federal Specification. This designation is requirement by concrete manhole manufactures to meet Federal DOT Requirements. I have attached a copy of the specifications for TTC-494 for your review. The subsequent price point marketed under LN-11 is for waterproof concrete (including bituminous concrete) and masonry applications, which do not require the Federal Specification certification.

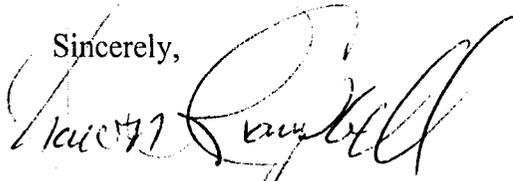
These two products have been sold for over (60) years in the State of New York for all the prescribed applications. I have attached a reference list of previous companies in the State of New York, which have requested the privilege to continue with use of this product.

The use of these products is required by some New York State Agencies and Agencies from other States for use as a waterproofing sealer for concrete (including

bituminous concrete) and masonry surfaces as noted on the Seaboard Product Data Sheets. I have attached a copy of the Specification Requirements from these various segments.

I would like to convey my appreciation of the prompt response and professional manner the Bureau of Air Resources has reviewed our Submittal for Acceptance. Seaboard Asphalt is available to provide information and data as required to help in your review of our submittal. If you have any additional questions, please do not hesitate to contact me 800-536-0332 or via email at shawn.campbell@seaboardasphalt.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Shawn R. Campbell", written in a cursive style.

Shawn R. Campbell

SEABOARD ASPHALT PRODUCTS COMPANY

PRODUCT DATA DRIVEWAY SEALER

LN-11 EQUINOX ASPHALT GILSONITE DRIVEWAY SEALER

- PRODUCT DESCRIPTION:** Seaboard Equinox Sealer is a superior gilsonite driveway sealer that dries to a beautiful black glossy surface.
- BASIC USES:** Seaboard Equinox Sealer is used as a rejuvenator and waterproofing sealer on bituminous concrete parking lots, driveways and other concrete and masonry surfaces.
- LIMITATIONS:** DO NOT HEAT container. DO NOT APPLY on bituminous surfaces before they oxidize 60-90 days, inclined driveways, or over surfaces with a coal tar coating.
- APPLICATION:** Seaboard Equinox Sealer should be applied to a thoroughly clean and dry bituminous surface after all cracks and holes have been filled with Seaboard Crackfiller. The material may be applied by brush, squeegee, or spray equipment at a rate of 60-80 square feet per gallon.
- STORAGE:** Seaboard Equinox Sealer can be used year round and the only protection would be from weathering on the container.
- COMPOSITION:**
- | | |
|-----------------|----------------|
| Asphalt | CAS 8052-42-4 |
| Mineral Spirits | CAS 64741-41-9 |
| Gilsonite | CAS 12002-43-6 |

This information is to assist customers in determining if this product is suitable for the proposed application, and to satisfy themselves as to the suitability of the contents. Nothing herein shall constitute a warranty, express or implied, including any warranty of merchantability or fitness, nor is protection from law or patent implied.

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(800) 536-0332
FACSIMILE (410) 355-5864

SEABOARD ASPHALT PRODUCTS COMPANY

PRODUCT DATA ASPHALT PAINT

LN-12 WATERPROOFING ASPHALT GILSONITE PAINT

- PRODUCT DESCRIPTION:** Seaboard Gilsonite Paint is a superior waterproofing asphalt paint formulated to meet Federal Specification TTC-494 Types I, II, and III.
- BASIC USES:** Seaboard Gilsonite Paint is used as a tough and weather resistant waterproofing sealer and coating on all types of steel, piping, industrial equipment chassis, radiators, concrete burial vaults, concrete pre-cast, septic tanks, concrete manholes, and other concrete and masonry surfaces.
- LIMITATIONS:** DO NOT HEAT container.
- APPLICATION:** Seaboard Gilsonite Paint may be brushed or sprayed onto a clean and dry surface. This material dries in one hour and cures in approximately five hours.
- STORAGE:** Seaboard Gilsonite Paint should be kept in a warm area before usage during cold seasons, but this material can be used year round and the only protection would be from weathering on the container.
- COMPOSITION:**
- | | |
|-----------------|----------------|
| Asphalt | CAS 8052-42-4 |
| Mineral Spirits | CAS 64741-41-9 |
| Gilsonite | CAS 12002-43-6 |

This information is to assist customers in determining if this product is suitable for the proposed application, and to satisfy themselves as to the suitability of the contents. Nothing herein shall constitute a warranty, express or implied, including any warranty of merchantability or fitness, nor is protection from law or patent implied.

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FACSIMILE (410) 355-5864

TT-C-00493 (GSA-FSS) COATING COMPOUND, BITUMINOUS, SOLVENT TYPE;
 ASPHALT BASE AND ALUMINUM PIGMENTED FOR ROOFS, October 20, 1964.
 Superseded by TT-C-00498, February 11, 1965.

TT-C-494 COATING COMPOUND, BITUMINOUS, SOLVENT TYPE, ACID
 RESISTANT, March 27, 1963.

A general purpose, acid-resistant black asphalt coating compound, except for interior of ammunition items where it could come in direct contact with explosives. See MIL-C-450 for ammunition uses. Type I Low solids (spray). Type II Medium solids (spray or brush). Type III Heavy paste. A natural or petroleum asphalt in aliphatic naphtha (TT-N-95), containing no drying oils,

	Type I	Type II	Type III
Total solids Percent	36-40	45-55	79-85
Viscosity (4 Ford Cup) sec.	15-28	120-190	150-250
Drying Time			
Dust free (Within)	5 min.	5 min.	8 hrs.
Tack free (Within)	0.5 hr.	1 hr.	24 hrs.

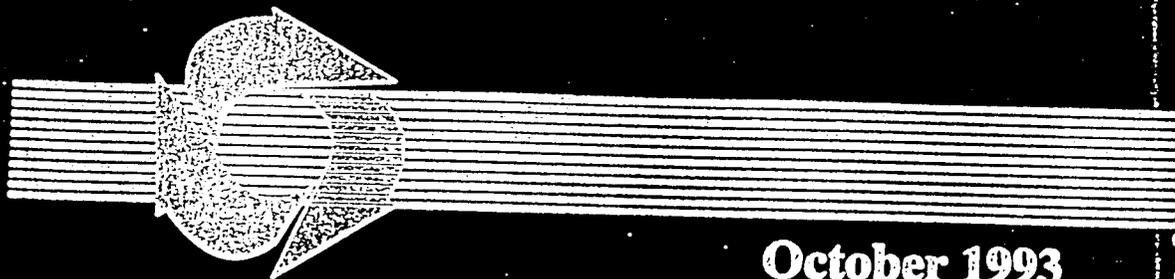
Water not over 0.5%; *Insoluble in CS₂* not over 0.5%; *Water resistance* 18 hrs. immersion, no blistering, whitening or softening, *Acid resistance* withstand picric, sulfuric, nitric and hydrochloric acid for 6 hrs.; *Heat-resistance* no sag or flow after 1 hr. at 100°C.; *Flexibility* shall not crack or flake when bent 180° over 1/8 inch rod; *Consistency* Type III penetration test value 200 ± 50 using method 311, Federal Test Method Standard No. 791.

* TT-C-495C COATINGS, EXTERIOR, FOR TINNED FOOD CANS, October 16, 1972.

Type I—Precoated camouflage (translucent), Class 1—for processed cans, Class 2—for nonprocessed cans. Type II—Postcoated camouflage (opaque). Type III—Precoated unpigmented. Class 1—for processed cans, Class 2—for nonprocessed cans. Wide latitude in selection of raw materials. *Lead* none allowed, to pass ASTM D-2088; *Dry coating weight* (milligrams/sq. in.) top, bottom and body of can (I) not under 1.5, (II) thickness not under 0.5 mils, (III, Cl. 1) not under 1.0, (III, Cl. 2) not under 2.5; *Dryness* (II only) no evidence of wetness, tackiness, wrinkling; *Flexibility* (II only) pass ¼ inch mandrel; *Adhesion* (I and III) no flaking, peeling or rubbing off; (II) after 48 hours drying at 150-152°F. open lid with a can opener and fold lid back, specks and flakes in food not to exceed 0.015 sq. in. *Coating coverage* (I and III) completely cover can, except soldered seam, key and tab to be stripe coated, (II) completely cover can, key and tab and 99% of the body except for difficult areas to coat; support points no more than four areas, none to exceed 1/8 inch; area under tab and adjacent to key not to exceed 1/8 inch; *Color* Type I, 34087—as light as 34127; Type II, 34087—as dark as 34086—as light as 34127; Type III natural color or resin used. *60° Gloss* (I and II) not over 50; *Opacity* (I) translucent so printing on can is legible; (II) opaque; *Resistance to processing conditions* (I, Class 1) and (III, Class 1) subjected to processing without damage to coating.

Maryland
Department of Transportation
State Highway Administration

STANDARD
SPECIFICATIONS
FOR
CONSTRUCTION
AND MATERIALS



October 1993

417 DAMPPROOFING AND MEMBRANE WATERPROOFING

for Contingent Reinforcement Steel Bars or Contingent Epoxy Coated Reinforcement Steel Bars to provide for unforeseen changes in planned dimensions affecting reinforcement quantities. Contingent reinforcement will be measured and paid for at the Contract unit price per pound. These items will be used only upon written direction of the Engineer. If necessary changes in the planned dimensions result in an increase in the as planned quantity, then the pertinent Contract lump sum price will be increased by an amount obtained from the product of the additional poundage times the Contract unit price per pound for Contingent Reinforcement. If the necessary changes result in a decrease in quantity, the Contract lump sum price will be decreased by an amount obtained from the product of the decrease in poundage times the Contract unit price per pound for Contingent Reinforcement.

**SECTION 417—DAMPPROOFING AND
MEMBRANE WATERPROOFING**

417.01 DESCRIPTION. This work shall consist of dampproofing and waterproofing of concrete surfaces. The type of system will be specified in the Contract Documents.

417.02 MATERIALS.

Asphalt	913.01
Asphalt Primer	913.02
Fabric for Use with Asphalt	913.03
Membrane Waterproofing and Dampproofing	921.12

417.03 CONSTRUCTION.

417.03.01 Storage. Waterproofing fabrics and membranes shall be stored in a dry protected place. Asphalt materials in containers shall be kept closed when not in use.

417.03.02 Surface Preparation. Dampproofing or membrane waterproofing shall not be applied until curing has been completed and surfaces are protected against cold. All surfaces shall be dry, smooth and free from projections and holes.

When dampproofing and membrane waterproofing are specified for joint application, the membrane waterproofing shall be applied first.

Shawn Campbell

From: Shawn Campbell [shawn.campbell@seboardasphalt.com]
Sent: Monday, April 18, 2005 10:07 AM
To: 'Black, Terry'
Subject: REF: Container labeling requirements

Terry Black:

I am writing to provide a Filing of an Explanation of the DATE CODE requirement of Chapter 130.604 Container Labeling Requirements for the LN-11 EQUINOX ASPHALT GILSONITE REJUVENATOR. The following information is stenciled in ink on the top of each 5-gallon pail or 55-gallon drum:

LINE #1:	LN-11	-PRODUCT CODE
LINE #2:	15005	-(150) Represents batch # and the (05) represents the year of production
LINE #3:	APR18	-Represents the date of manufacture
LINE #4:	DO NOT HEAT	
LINE #5	MAX 400 g/L	-Represents maximum VOC content of 400 g/L

Please also note that on the label under the APPLICATION AND PRECAUTIONS section of the label; the first item and in bold print is stated the following:

DO NOT THIN

Please note the above information will also be provided on bulk tank truck shipments. The above information will be presented by adhering a sticker with the information to the Seboard retained Bill of Lading and to the customer Bill of Lading copy.

The above information should satisfy the requirements of the Pennsylvania Code Section for Container Labeling Requirements. If you have any additional questions, please do not hesitate to contact me.

Thank You, Shawn Campbell

WEST VIRGINIA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS



STANDARD SPECIFICATIONS
ROADS AND BRIDGES

Adopted 1993

618.7-BASIS OF PAYMENT:

The quantities, determined as provided above, will be paid for at the contract unit prices bid for the items listed below, which prices and payments shall be full compensation for furnishing all the materials and doing all the work prescribed in a workmanlike and acceptable manner, including all materials, labor, tools, equipment, supplies, and incidentals necessary to complete the work.

618.8-PAY ITEMS:

- Item 618-01, "Cast Bronze Expansion Plates", per pound
- Item 618-02, "Rolled Copper-Alloy Expansion Plates", per pound

**SECTION 619
WATERPROOFING**

619.1-DESCRIPTION:

This work shall consist of waterproofing concrete retaining walls, abutments, earth-filled arches, and concrete decks, either in the form of dampproofing (primers with bituminous paint coat) or membrane waterproofing (primers with bituminous membrane fabric, with or without protection course) as specified on the Plans. Dampproofing shall consist of a primer and two coats of bituminous materials. Membrane waterproofing shall consist of a primer, two layers of fabric, and three moppings of hot bituminous material. The work shall be done in accordance with the Specifications and as shown on the Plans.

619.2-MATERIALS:

The materials shall conform to the requirement of the several Subsections of Division 700 of these Specifications as follows:

MATERIAL	SUBSECTION	TYPE
Dampproofing Primer	705.4, 705.11 or 705.8	SS-1 or SS-1h CSS-1 or CSS-1h
Dampproofing Agent	705.4, 705.11 705.7	SS-1 or SS-1h CSS-1 or CSS-1h
Membrane Waterproofing	705.8	
Membrane Waterproofing	705.7	
Waterproofing Fabric	715.8	
Reinforcing Steel	709.3	
Hot-Poured Elastic Type Concrete Joint Sealer	708.3	

Shawn Campbell

From: Campfield, Kristen [kcampfield@state.pa.us]
Sent: Friday, April 15, 2005 1:32 PM
To: shawn.campbell@seaboardasphalt.com
Cc: Black, Terry
Subject: Seaboard Asphalt's LN-11

Dear Mr. Campbell:

This email confirms our conversation of April 15, 2005 regarding the requirements of the Department's architectural and industrial maintenance coatings (AIM) regulation, at 25 Pa. Code §§130.601 to 130.611. In our conversation, I informed you that the materials you submitted to the Department on April 12, 2005 demonstrate to the Department's satisfaction that Seaboard's LN-11 Equinox Asphalt Gilsonite Rejuvenator will be considered a "waterproofing concrete/masonry sealer" in Pennsylvania if labeled in accordance with the definition of "waterproofing concrete/masonry sealer" in 25 Pa. Code §130.602. The Department will accept label information on an invoice instead of on a container label for tanker truck-size containers. "Waterproofing concrete/masonry sealers" are subject to a VOC content limit of 400 grams per liter in Pennsylvania, under 25 Pa. Code §130.603.

If you have any questions, please do not hesitate to contact Terry Black at (717) 787-2030 or me.

Kristen Campfield
Assistant Counsel
Bureau of Regulatory Counsel
Pennsylvania Department of Environmental Protection
400 Market Street
Harrisburg PA 17101
ph: (717) 787-7060
fax: (717) 783-7911
kcampfield@state.pa.us

Seaboard Asphalt Products Company



355-0330-0331

3601 FAIRFIELD ROAD

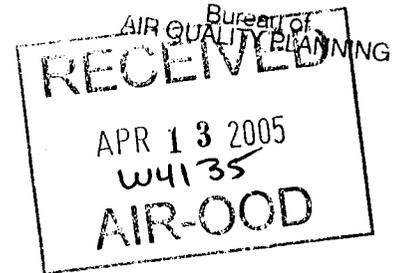
BALTIMORE, MARYLAND 21226

1-800-536-0332
Fax: (410) 355-5864

RECEIVED
APR 14 2005

April 8, 2005

Department of Environmental Conservation
Director of Air Resources
625 Broadway
Albany, New York 12233-3251



Attention: Dave Shaw

I would like to thank you for taking your valuable time to review this Request for Evaluation of a product manufactured by Seaboard Asphalt. Seaboard Asphalt has reviewed current regulations for OTC States and is requesting your assistance in placing the Seaboard LN-11 EQUINOX ASPHALT GILSONITE REJUVENATOR into the proper category for compliance requirements. I am writing to provide the following Company Profile, Product Evaluation, and Market Impact information to assist in our request.

SEABOARD COMPANY PROFILE

Seaboard Asphalt is a privately owned corporation in the State of Maryland. Seaboard has been manufacturing premium quality 100% ASBESTOS-FREE asphalt, coal tar and specialty products since 1929. Seaboard currently manufactures over (400) products and private labels over (125) different brands of coatings.

Seaboard manufactures every grade and type of driveway sealant available in the marketplace. Seaboard manufactures coal tar emulsion, coal tar cutbacks, and asphalt emulsions. The LN-11 has a separate function from a driveway sealer and is the only product in our various product lines, which we has not been able to be reformulated or categorized for a current OTC Category.

Seaboard has reviewed the Model Rule for Consumer Products and the CARB Staff Report in an attempt to categorize the LN-11. Seaboard has not been able to do so. Seaboard has also enlisted the evaluation of other field experts such as the Technical Committee for the RCMA (Roof Coatings Manufactures Association), the Technical Committee for the NAPA (National Asphalt Paving Association), the Attorneys from Whiteford, Taylor and Preston Law Offices, the Chemists from our Laboratory; as well as other companies in our industry. They have not been able to provide a definitive

recommendation. However; they all believe that the current Compliance Requirements do not specifically address the LN-11 as manufactured by Seaboard Asphalt.

PRODUCT INFORMATION

The LN-11 Equinox Asphalt Gilsonite Rejuvenator functions unlike any other pavement surface coating. Driveway coatings are needed to prevent the deterioration of bituminous pavement surfaces. Bituminous pavement surface are deteriorated by UV rays, which oxidize the asphalt. You have probably noticed that when a driveway is laid the surface is jet black. Then over a year or two the pavement becomes gray in coloration and loose stones begin to appear on the surface. This condition is from the oxidizing of the asphalt and you begin to see the light colored stones appearing as the asphalt is turned to powder and blown away. The stones then have no asphalt to hold them in place and they become free roaming and no longer held to the pavement surface.

The average driveway sealer is a protective coating for the pavement surface. It attempts to slow the oxidation process and prevent additional seepage of water through oxidized cracks into the pavement surface. However, these sealers do not help repair the surface from damage already done. Also, due to build and tracking problems these types of sealers can only applied once every five years. The average life span of a driveway surface before needed repair by repaving with hot mix is approximately 7-10 years.

The LN-11 is a rejuvenating coating. This product penetrates the surface of the bituminous surface up to a depth of a ¼" and adds asphalt back into the oxidized surface. It also adds asphalt with a harder penetration level than the original pavement asphalt to help deter further deterioration. The standard oxidized level of a pavement surface is an 1/8"; therefore, the LN-11 helps to bond the deteriorated level of pavement surface to the portion not affected by oxidation. The LN-11 can be applied every year with no problems with build up or tracking. This in turn has dramatically increased the life span of pavement surfaces with proper coating programs to 20-30 years.

The cost of replacement of a bituminous pavement surface is a serious financial burden on most residential homeowners and small commercial businesses. The average cost of driveway replacement is \$13,000. Therefore; there is an entire industry of applicators of the LN-11 coating.

ECONOMIC IMPACT

Seaboard manufactures the LN-11 and sells the product through a network of distributors and wholesalers throughout the United States. A concentration of contractors applying the LN-11 are in the Northeast (OTC States) because a majority of the bituminous pavement surfaces are in this part of Country. These distributors and contractors only apply this product. They have expensive and specially tooled equipped, which can only apply this product and cannot be converted to other types of coatings.

If Seaboard is not able to produce and provide this product we estimate that nearly 92,000 people and companies will lose their livelihood and have to close their small businesses in the OTC States alone. I have attached information from one our distributors in Allentown, PA with an economic impact statement in relation to his business. These numbers are only reflective of distributors and applicators; it does not include truck drivers, factory manufacturing workers, office employees and other related industries.

If Seaboard is not able to produce this product many home owners and businesses will not be able to afford to repave with hot mix their bituminous surfaces. The lack of bituminous surfaces has shown to contribute to a multiple of problems for consumers and traffic safety. If companies and residences do not repave; then access for handicap and elderly persons is hampered with dirt or gravel areas; the cleanliness of food establishments; traffic safety concerns where loose gravel from driveways makes its way onto main streets and becomes projectiles; and during inclement weather snow removal and ice control become difficult, which may hamper accessibility for emergency vehicles and pedestrian safety.

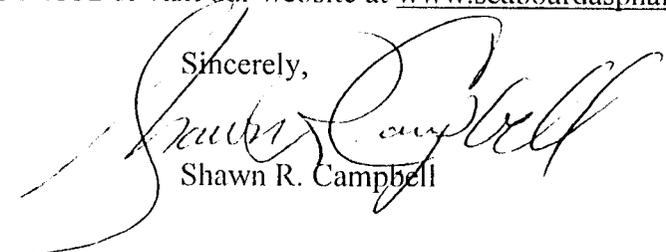
REFORMULATION AND RECOMMENDATIONS

I would like to again thank you for reviewing all of this information. Seaboard has reviewed reformulation of the LN-11. The properties of the penetration grade of the asphalt require certain dilution rates to be viscous enough to apply at ambient temperatures. Also, the evaporation rate of other solvents do provide the surface penetration and rejuvenating ability of our current solvent. We have tested and evaluated over (60) reformulations without achieving comparable results to meet the needs of this industry.

After review of other existing VOC levels under OTC Categories for other High Performance Specialty Coatings with VOC Max limits of 725-780 g/l for CONCRETE SURFACE RETARDERS, CONVERSION VARNISH and IMPACTED IMMERSION COATINGS; I would request a evaluation in relation to individual performance results, economic impact and high performance properties of this product. Other bituminous coatings have been recognized under categories for their own individual properties such as BITUMINOUS COATINGS AND MASTICS, BITUMINOUS ROOF COATINGS and BITUMINOUS ROOF PRIMERS.

Seaboard has been able to provide compliant products for all of our (400) products except for the LN-11. I appreciate your consideration for review of this product and look forward to your response. If you have any additional questions, please do not hesitate to contact me at 800-536-0332 or visit our website at www.seaboardasphalt.com.

Sincerely,


Shawn R. Campbell

Seaboard Asphalt Products Company
3601 Fairfield Road
Baltimore, Maryland 21226
(800) 536-0332
Fax (410) 355-5864

Seaboard Asphalt Products Company

MATERIAL SAFETY DATA SHEET

SEABOARD ASPHALT PRODUCTS COMPANY
3601 FAIRFIELD ROAD
BALTIMORE, MARYLAND 21226
(410) 355-0330 OR FAX (410) 355-5864

CHEMTREC
EMERGENCY
(SPILL, FIRE, EXPOSURE)
DAY OR NIGHT 800-424-9300

SECTION I. PRODUCT IDENTIFICATION

PRODUCT CODE: LN-11
PRODUCT NAME: Equinox Asphalt Gilsonite Driveway Sealer

SECTION II. INGREDIENT INFORMATION

	<u>%</u>	<u>CAS</u>	<u>TLV</u>
Asphalt	65-75	8052-42-4	5 mg/m ³
Mineral Spirits (Stoddard)	25-35	64741-41-9	100 ppm
Gilsonite	19-23	NA	5 mg/m ³

This product does not contain any materials listed by OSHA, NTP, or IARC as carcinogens.

SECTION III. HEALTH HAZARD INFORMATION

CAUTION! HEATING MAY RELEASE HYDROGEN SULFIDE GAS (H₂S)

EYE CONTACT: The cool material will cause minor eye irritation. However, thermal burns may result from contact with the hot material. The degree of the injury will depend on the amount of material that gets into the eye and the speed and thoroughness of the first aid treatment. Signs and symptoms may include, pain, tears, swelling, redness and blurred vision. This hazard evaluation is based on the data from similar materials.

SKIN CONTACT: The cool material will cause minor skin irritation. However, thermal burns may result from contact with the hot material. The degree of the injury will depend on the amount of material that gets on the skin and the speed and thoroughness of the first aid treatment. Signs and symptoms may include: pain, discoloration and swelling. This hazard evaluation is based on data from similar materials.

The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if it gets into the skin.

INHALATION: Fumes from the hot material can be unpleasant and may produce nausea and irritation of the upper respiratory tract. If inhaled, this substance is considered

practically non-toxic to internal organs. This substance contains sulfur compounds which may form hydrogen sulfide. the rotten eggs odor of hydrogen sulfide is unreliable as an indicator of concentration. Signs and symptoms of over exposure to hydrogen sulfide include respiratory tract irritation, headaches, dizziness, nausea, gastrointestinal disturbances, coughing, a sensation of dryness and pain in the nose, throat and chest, confusion and unconsciousness. Hydrogen sulfide concentrations of 1000 -2000 ppm can be extremely hazardous. This hazard evaluation is based on data from similar materials.

INGESTION: This is an unlikely route of entry, however if swallowed, this substance is considered practically non-toxic.

ADDITIONAL HEALTH DATA COMMENT: Studies in which mice were exposed to a variety of whole asphalts did not result in any increased cancer rate; mice exposed to asphalts diluted with hydrocarbon solvents had increased incidence of certain types of cancer. Brief or intermittent skin contact with this asphalt product is not expected to produce any delayed effects. While normal handling of this product is not likely to cause cancer in humans, skin contact and breathing of mists or vapors should be reduced to a minimum.

FIRST AID: EYE CONTACT: Flush eyes, including under eyelids, with running water for at least fifteen minutes. Get medical attention. SKIN CONTACT: If the hot, melted material gets on the skin, quickly cool in water. See a doctor for extensive burns. DO NOT try to peel the solidified material from the skin or use solvents or thinners to dissolve it. The use of vegetable oil or mineral oil is recommended for removal of this material from the skin. Flush exposed area with water while removing contaminated clothing. Get medical attention if irritation persists. INHALATION: If there are signs or symptoms of hydrogen sulfide exposure(respiratory tract irritation, headache, dizziness, nausea, gastrointestinal disturbances, coughing, a sensations of dryness or pain in the nose, throat and chest, confusion and unconsciousness), move the person to fresh air. If breathing has stopped, apply artificial respiration. Call a doctor. Note to physician: In addition to the use of 100% oxygen and supportive care, suggested treatment for hydrogen sulfide poisoning includes the use of nitrites. This is based on the similar mechanisms of toxicity between hydrogen sulfide and hydrogen cyanide. The nitrite-induced methemoglobin is thought to bind the toxic hydrosulfide ion. Initial inhalation of amyl nitrite pearls for 15 to 30 seconds if each minute should be initiated until 10 ml of a 3% solution of sodium nitrite can be administered intravenously at 2.5 to 5 ml per minute. While the efficacy of nitrites in hydrogen sulfide poisoning has not been unequivocally demonstrated, their use is recommended as part of the treatment regimen. Hyperbaric oxygen therapy has been used for cyanide poisoning with some success and may be of benefit in hydrogen sulfide poisoning if other measures are ineffective. INGESTION: Unlikely, if occurs give person milk or water. Keep head below the waist. Contact a physician or Poison Control Center. Never give anything by mouth to a person who is unconscious or having convulsions.

NFPA RATING: HEALTH - 1 FIRE - 2 REACTIVITY - 0

SECTION IV. FIRE AND EXPLOSION DATA

FLASH POINT AND METHOD: : ~ 110 °F Tag open cup

UPPER EXPLOSIVE LIMIT: Not Available

LOWER EXPLOSIVE LIMIT: Not Available

EXTINGUISHING MEDIA: Water, carbon dioxide and dry chemical. Use water spray to cool fire-exposed containers. A fine water mist may be used to smother fire or to disperse vapors. Do not use a solid stream of water since the stream will scatter and spread the fire. Fire fighters must wear self-contained breathing apparatus and full protective clothing when fighting fires involving this material.

SECTION V. REACTIVITY DATA

CAUTION! HEATING MAY RELEASE HYDROGEN SULFIDE GAS (H₂S)

This material is stable in closed containers at room temperature under normal storage and handling conditions. It does not polymerize. It is incompatible with strong oxidizing agents. Decomposition products can include carbon monoxide, carbon dioxide, and water vapor.

SECTION VI. PHYSICAL DATA

BOILING POINT: ~ 650 °F

APPEARANCE AND ODOR: Black liquid with organic odor

SECTION VII. SPILL, LEAK, AND DISPOSAL PROCEDURE

Notify safety personnel of large spills or leaks. Clean-up personnel need protection against liquid contact and vapor inhalation. Absorb small spills and collect liquid, if feasible, or absorb with vermiculite or sand. Do not flush to sewer or stream.

Dispose of liquid waste via licensed waste disposal company. Follow Federal, State and Local regulation.

SECTION VIII. SPECIAL PROTECTION INFORMATION

Wear impervious gloves and safety glasses to prevent contact with the skin and eyes. If repeated or prolonged contact with liquid is likely, wear protective clothing including boots, apron, and faceshield or splash goggles. Remove contaminated clothing immediately and do not reuse until it has been properly laundered.

Eye wash stations and safety showers should be available in use and handling areas.

Contact lenses pose a special hazard; soft lenses may absorb and all lenses concentrate irritants.

SECTION IX. SPECIAL PRECAUTIONS AND COMMENTS

Store in closed containers in a cool, dry, well-ventilated area away from oxidizers, heat and open flame.

Protect container from physical damage.

Date Prepared: 11/09/90

Revision: 0

Seaboard Asphalt Products Company

DRIVEWAY SEALERS & COMPLIMENTARY PRODUCTS

CODE	PRODUCT	DESCRIPTION	APPROX. SQ. FT.	PACKAGING	SPECS
LN-11	<u>Equinox Driveway Sealer</u>	A superior gilsonite driveway sealer that dries to a beautiful black glossy finish. <u>Material Safety Data Sheet</u>	80 - 100	5 Gal. 55 Gal. Bulk	
TE-1	<u>Rubberized Tar Emulsion Driveway Sealer</u>	Coal tar emulsion latex fortified for use as a protective coating for bituminous pavement including parking lots, homes and airfields. <u>Material Safety Data Sheet</u>	100 - 125	5 Gal. 55 Gal. Bulk	* Fed Spec RP355e
TE-2	<u>Rubberized Tar Emulsion Filler & Sealer</u>	Same formula as above with fine aggregate, which produces a texture type surface. <u>Material Safety Data Sheet</u>	40 - 60	5 Gal. 55 Gal. Bulk	* Fed Spec RP355e
TE-3	<u>Ezee Stir Rubberized Tar Emulsion Filler & Sealer</u>	A premium coal tar emulsion Ezee Stir formula with selected polymers & fine aggregate, which produces a jet black texture finish. <u>Material Safety Data Sheet</u>	40 - 60	5 Gal. 55 Gal. Bulk	* Fed Spec RP355e
TE-36	<u>Coal Tar Emulsion Sealer</u>	A coal tar emulsion for coating your driveway & adds protection from oil and water. <u>Material Safety Data Sheet</u>	100 - 125	5 Gal. 55 Gal. Bulk	* Fed Spec RP355e
ACF-1	<u>Rubberized Cold Pourable Crackfiller</u>	An asphalt emulsion pourable which fills and seals cracks in blacktop & concrete. <u>Material Safety Data Sheet Prepared: 1/24/00 Rev. 1</u>	200 LF	4 - 1 Gal. 5 Gal.	
DP-1	<u>Trowelable Grade Crackfiller</u>	A heavy duty emulsion for filling cracks in excess of 1/2" in width in asphaltic surfaces. <u>Material Safety Data Sheet Prepared: 1/24/00 Rev. 1</u>	80 LF	6 - 1 Gal. 5 Gal.	
OSP-1	<u>Oil Spot Primer</u>	A quick drying modified barrier coating formulated to promote adhesion before application of a sealer over oil spots and stains.	350	9 Quarts 4 - 1 Gal. 5 Gal. 55 Gal.	
AR-1	<u>Asphalt & Coal Tar Remover</u>	A highly effective coal tar and asphalt cleaner in a spray bottle for personal equipment and the jobsite.		Quart	
PP-1	<u>Bond-X Pothole Patch</u>	A high performance permanent cold applied patch for concrete or bituminous surfaces.		3 Gal. 5 Gal.	

* Coal Tar Portion Only

Seaboard Asphalt Products Company

SPECIALITY PRODUCTS

CODE	PRODUCT	DESCRIPTION	APPROX. SQ. FT.	PACKAGING	SPECS
LN-1	<u>Mineral Spirits</u>	A quality solvent for multipurposes of cleaning and thinning. <u>Material Safety Data Sheet</u>		4 - 1 Gal. 5 Gal. 55 Gal. Bulk	
LN-12	<u>Asphalt Gilsonite Paint</u>	A quick drying protective coating for steel and concrete products. <u>Material Safety Data Sheet Prepared: 1/24/00 Rev. 1</u>	80-100	5 Gal. 55 Gal.	Fed. TTC-494 Types I, II, III
LN-52	<u>Clippership Black Asphalt Fence Paint</u>	A high quality asphalt fence paint for wooden & metal fences, gates, poles, pipes, & tanks & below ground as a moisture barrier. <u>Material Safety Data Sheet Prepared: 1/24/00 Rev. 1</u>	300	4 - 1 Gal. 5 Gal. 55 Gal.	
LN-3100	<u>Clippership Black Net Set (Crabpot & Fishnet Coating)</u>	An asphalt coating for protecting nets and galvanized crabpots. <u>Material Safety Data Sheet Prepared: 1/24/00 Rev. 1</u>		5 gal. 55 Gal. Bulk	
EM-12	<u>Emulsion Metal Pipe Coating</u>	A polymer modified asphalt emulsion metal ductal pipe protective coating.	250-300	5 Gal. 55 Gal. Bulk	
MP-33	<u>Industrial Mastic</u>	A heavy duty industrial protective coating for roofs and above & below grade masonry and metal surfaces. <u>Material Safety Data Sheet</u>	40	5 Gal. 55 Gal.	Fed. TTC-520
MP-48	<u>Seaboard Wood Block Mastic</u>	An adhesive for laminating wood block flooring to concrete, which also acts as a dampproofing membrane. <u>Material Safety Data Sheet Prepared: 1/24/00 Rev. 1</u>	45	4 - 1 Gal. 5 Gal.	
MP-49	<u>Brick & Block Pavers Mastic</u>	A rubberized asphalt cement designed for use as an adhesive for stone pavers and asphalt bricks. <u>Material Safety Data Sheet Prepared: 1/24/00 Rev. 1</u>	35	5 Gal. 55 Gal.	
MP-52	<u>Bituminous Joint Compound</u>	A heavy duty bituminous mastic state approved for joint sealing on concrete and metal pipe and many other applications. <u>Material Safety Data Sheet Prepared: 1/24/00 Rev. 1</u>	20	5 Gal. 55 Gal.	
SC-700	<u>Asphalt Fibred Undercoating</u>	A heavy duty industrial protective coating for cars, trailers, and a variety of other industrial applications.	40	Gal. 55 Gal.	Fed. TTC-520
SL-5	<u>Clippership Silicone Clear Guard</u>	This material forms a barrier which prevents water from penetrating through exterior surface, but permits wall to breathe. <u>Material Safety Data Sheet Prepared: 1/24/00 Rev. 1</u>	150	4 - 1 Gal. 5 Gal. 55 Gal.	Fed Spec SS-W-00110C

Seaboard Asphalt Products Company

MATERIAL SAFETY DATA SHEET

SEABOARD ASPHALT PRODUCTS COMPANY
3601 FAIRFIELD ROAD
BALTIMORE, MARYLAND 21226
(410) 355-0330 OR FAX (410) 355-5864

CHEMTREC
EMERGENCY
(SPILL, FIRE, EXPOSURE)
DAY OR NIGHT 800-424-9300

SECTION I. PRODUCT IDENTIFICATION

PRODUCT CODE: LN-11
PRODUCT NAME: Equinox Asphalt Gilsonite Driveway Sealer

SECTION II. INGREDIENT INFORMATION

	<u>%</u>	<u>CAS</u>	<u>TLV</u>
Asphalt	65-75	8052-42-4	5 mg/m ³
Mineral Spirits (Stoddard)	25-35	64741-41-9	100 ppm
Gilsonite	19-23	NA	5 mg/m ³

This product does not contain any materials listed by OSHA, NTP, or IARC as carcinogens.

SECTION III. HEALTH HAZARD INFORMATION

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SKIN CONTACT: The cool material will cause minor skin irritation. However, thermal burns may result from contact with the hot material. The degree of the injury will depend on the amount of material that gets on the skin and the speed and thoroughness of the first aid treatment. Signs and symptoms may include: pain, discoloration and swelling. This hazard evaluation is based on data from similar materials.

The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if it gets into the skin.

INHALATION: Fumes from the hot material can be unpleasant and may produce nausea and irritation of the upper respiratory tract. If inhaled, this substance is considered

practically non-toxic to internal organs. This substance contains sulfur compounds which may form hydrogen sulfide. the rotten eggs odor of hydrogen sulfide is unreliable as an indicator of concentration. Signs and symptoms of over exposure to hydrogen sulfide include respiratory tract irritation, headaches, dizziness, nausea, gastrointestinal disturbances, coughing, a sensation of dryness and pain in the nose, throat and chest, confusion and unconsciousness. Hydrogen sulfide concentrations of 1000 -2000 ppm can be extremely hazardous. This hazard evaluation is based on data from similar materials.

INGESTION: This is an unlikely route of entry, however if swallowed, this substance is considered practically non-toxic.

ADDITIONAL HEALTH DATA COMMENT: Studies in which mice were exposed to a variety of whole asphalts did not result in any increased cancer rate; mice exposed to asphalts diluted with hydrocarbon solvents had increased incidence of certain types of cancer. Brief or intermittent skin contact with this asphalt product is not expected to produce any delayed effects. While normal handling of this product is not likely to cause cancer in humans, skin contact and breathing of mists or vapors should be reduced to a minimum.

FIRST AID: EYE CONTACT: Flush eyes, including under eyelids, with running water for at least fifteen minutes. Get medical attention. SKIN CONTACT: If the hot, melted material gets on the skin, quickly cool in water. See a doctor for extensive burns. DO NOT try to peel the solidified material from the skin or use solvents or thinners to dissolve it. The use of vegetable oil or mineral oil is recommended for removal of this material from the skin. Flush exposed area with water while removing contaminated clothing. Get medical attention if irritation persists. INHALATION: If there are signs or symptoms of hydrogen sulfide exposure(respiratory tract irritation, headache, dizziness, nausea, gastrointestinal disturbances, coughing, a sensations of dryness or pain in the nose, throat and chest, confusion and unconsciousness), move the person to fresh air. If breathing has stopped, apply artificial respiration. Call a doctor. Note to physician: In addition to the use of 100% oxygen and supportive care, suggested treatment for hydrogen sulfide poisoning includes the use of nitrites. This is based on the similar mechanisms of toxicity between hydrogen sulfide and hydrogen cyanide. The nitrite-induced methemoglobin is thought to bind the toxic hydrosulfide ion. Initial inhalation of amyl nitrite pearls for 15 to 30 seconds if each minute should be initiated until 10 ml of a 3% solution of sodium nitrite can be administered intravenously at 2.5 to 5 ml per minute. While the efficacy of nitrites in hydrogen sulfide poisoning has not been unequivocally demonstrated, their use is recommended as part of the treatment regimen. Hyperbaric oxygen therapy has been used for cyanide poisoning with some success and may be of benefit in hydrogen sulfide poisoning if other measures are ineffective. INGESTION: Unlikely, if occurs give person milk or water. Keep head below the waist. Contact a physician or Poison Control Center. Never give anything by mouth to a person who is unconscious or having convulsions.

NFPA RATING: HEALTH - 1 FIRE - 2 REACTIVITY - 0

SECTION IV. FIRE AND EXPLOSION DATA

FLASH POINT AND METHOD: : ~ 110 °F Tag open cup

UPPER EXPLOSIVE LIMIT: Not Available

LOWER EXPLOSIVE LIMIT: Not Available

EXTINGUISHING MEDIA: Water, carbon dioxide and dry chemical. Use water spray to cool fire-exposed containers. A fine water mist may be used to smother fire or to disperse vapors. Do not use a solid stream of water since the stream will scatter and spread the fire. Fire fighters must wear self-contained breathing apparatus and full protective clothing when fighting fires involving this material.

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This material is stable in closed containers at room temperature under normal storage and handling conditions. It does not polymerize. It is incompatible with strong oxidizing agents. Decomposition products can include carbon monoxide, carbon dioxide, and water vapor.

SECTION VI. PHYSICAL DATA

BOILING POINT: ~ 650 °F

APPEARANCE AND ODOR: Black liquid with organic odor

SECTION VII. SPILL, LEAK, AND DISPOSAL PROCEDURE

Notify safety personnel of large spills or leaks. Clean-up personnel need protection against liquid contact and vapor inhalation. Absorb small spills and collect liquid, if feasible, or absorb with vermiculite or sand. Do not flush to sewer or stream.

Dispose of liquid waste via licensed waste disposal company. Follow Federal, State and Local regulation.

SECTION VIII. SPECIAL PROTECTION INFORMATION

Wear impervious gloves and safety glasses to prevent contact with the skin and eyes: If repeated or prolonged contact with liquid is likely, wear protective clothing including boots, apron, and faceshield or splash goggles. Remove contaminated clothing immediately and do not reuse until it has been properly laundered.

Eye wash stations and safety showers should be available in use and handling areas.

Contact lenses pose a special hazard; soft lenses may absorb and all lenses concentrate irritants.

SECTION IX. SPECIAL PRECAUTIONS AND COMMENTS

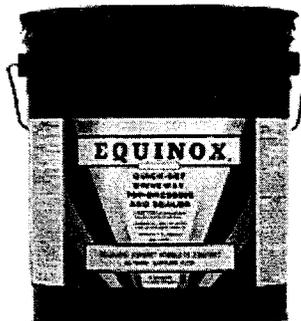
Store in closed containers in a cool, dry, well-ventilated area away from oxidizers, heat and open flame.

Protect container from physical damage.

Date Prepared: 11/09/90

Revision: 0

Seaboard Asphalt Products Company



PRODUCT DATA

DRIVEWAY SEALER

LN-11 EQUINOX ASPHALT GILSONITE DRIVEWAY SEALER

PRODUCT DESCRIPTION:

Seaboard Equinox Sealer is a superior gilsonite driveway sealer that dries to a beautiful black glossy surface.

BASIC USES:

Seaboard Equinox Sealer is used as a rejuvenator and sealer on bituminous asphalt parking lots and driveways.

LIMITATIONS:

DO NOT HEAT container. DO NOT APPLY on bituminous surfaces before they oxidize 60-90 days, inclined driveways, or over surfaces with a coal tar coating.

APPLICATION:

Seaboard Equinox Sealer should be applied to a thoroughly clean and dry bituminous surface after all cracks and holes have been filled with Seaboard Crackfiller. The material may be applied by brush, squeegee, or spray equipment at a rate of 60-80 square feet per gallon.

STORAGE:

Seaboard Equinox Sealer can be used year round and the only protection would be from weathering on the container.

COMPOSITION:

Asphalt	CAS 8052-42-4
Mineral Spirits	CAS 64741-41-9
Gilsonite	CAS 12002-43-6

This information is to assist customers in determining if this product is suitable for the proposed application, and to satisfy themselves as to suitability of the contents. Nothing herein shall constitute a warranty, expressed or implied, including any warranty of merchantability or fitness, nor is protection from law or patent implied.

3601 FAIRFIELD ROAD
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Email: sales@seboardasphalt.com

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CAUTION! HEATING MAY RELEASE HYDROGEN SULFIDE GAS (H₂S)

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SKIN CONTACT: The cool material will cause minor skin irritation. However, thermal burns may result from contact with the hot material. The degree of the injury will depend on the amount of material that gets on the skin and the speed and thoroughness of the first aid treatment. Signs and symptoms may include: pain, discoloration and swelling. This hazard evaluation is based on data from similar materials.

The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if it gets into the skin.

INHALATION: Fumes from the hot material can be unpleasant and may produce nausea and irritation of the upper respiratory tract. If inhaled, this substance is considered practically non-toxic to internal organs. This substance contains sulfur compounds which may form hydrogen sulfide. the rotten eggs odor of hydrogen sulfide is unreliable as an indicator of concentration. Signs and symptoms of over exposure to hydrogen sulfide

include respiratory tract irritation, headaches, dizziness, nausea, gastrointestinal disturbances, coughing, a sensation of dryness and pain in the nose, throat and chest, confusion and unconsciousness. Hydrogen sulfide concentrations of 1000 -2000 ppm can be extremely hazardous. This hazard evaluation is based on data from similar materials.

INGESTION: This is an unlikely route of entry, however if swallowed, this substance is considered practically non-toxic.

ADDITIONAL HEALTH DATA COMMENT: Studies in which mice were exposed to a variety of whole asphalts did not result in any increased cancer rate; mice exposed to asphalts diluted with hydrocarbon solvents had increased incidence of certain types of cancer. Brief or intermittent skin contact with this asphalt product is not expected to produce any delayed effects. While normal handling of this product is not likely to cause cancer in humans, skin contact and breathing of mists or vapors should be reduced to a minimum.

FIRST AID: EYE CONTACT: Flush eyes, including under eyelids, with running water for at least fifteen minutes. Get medical attention. **SKIN CONTACT:** If the hot, melted material gets on the skin, quickly cool in water. See a doctor for extensive burns. DO NOT try to peel the solidified material from the skin or use solvents or thinners to dissolve it. The use of vegetable oil or mineral oil is recommended for removal of this material from the skin. Flush exposed area with water while removing contaminated clothing. Get medical attention if irritation persists. **INHALATION:** If there are signs or symptoms of hydrogen sulfide exposure (respiratory tract irritation, headache, dizziness, nausea, gastrointestinal disturbances, coughing, a sensations of dryness or pain in the nose, throat and chest, confusion and unconsciousness), move the person to fresh air. If breathing has stopped, apply artificial respiration. Call a doctor. Note to physician: In addition to the use of 100% oxygen and supportive care, suggested treatment for hydrogen sulfide poisoning includes the use of nitrites. This is based on the similar mechanisms of toxicity between hydrogen sulfide and hydrogen cyanide. The nitrite-induced methemoglobin is thought to bind the toxic hydrosulfide ion. Initial inhalation of amyl nitrite pearls for 15 to 30 seconds if each minute should be initiated until 10 ml of a 3% solution of sodium nitrite can be administered intravenously at 2.5 to 5 ml per minute. While the efficacy of nitrites in hydrogen sulfide poisoning has not been unequivocally demonstrated, their use is recommended as part of the treatment regimen. Hyperbaric oxygen therapy has been used for cyanide poisoning with some success and may be of benefit in hydrogen sulfide poisoning if other measures are ineffective. **INGESTION:** Unlikely, if occurs give person milk or water. Keep head below the waist. Contact a physician or Poison Control Center. Never give anything by mouth to a person who is unconscious or having convulsions.

NFPA RATING: HEALTH - 1 FIRE - 2 REACTIVITY - 0

SECTION IV. FIRE AND EXPLOSION DATA

FLASH POINT AND METHOD: : ~ 110 °F Tag open cup

UPPER EXPLOSIVE LIMIT: Not Available

LOWER EXPLOSIVE LIMIT: Not Available

EXTINGUISHING MEDIA: Water, carbon dioxide and dry chemical. Use water spray to cool fire-exposed containers. A fine water mist may be used to smother fire or to disperse vapors. Do not use a solid stream of water since the stream will scatter and spread the fire. Fire fighters must wear self-contained breathing apparatus and full protective clothing when fighting fires involving this material.

SECTION V. REACTIVITY DATA

CAUTION! HEATING MAY RELEASE HYDROGEN SULFIDE GAS (H₂S)

This material is stable in closed containers at room temperature under normal storage and handling conditions. It does not polymerize. It is incompatible with strong oxidizing agents. Decomposition products can include carbon monoxide, carbon dioxide, and water vapor.

SECTION VI. PHYSICAL DATA

BOILING POINT: ~ 650 °F

APPEARANCE AND ODOR: Black liquid with organic odor

SECTION VII. SPILL, LEAK, AND DISPOSAL PROCEDURE

Notify safety personnel of large spills or leaks. Clean-up personnel need protection against liquid contact and vapor inhalation. Absorb small spills and collect liquid, if feasible, or absorb with vermiculite or sand. Do not flush to sewer or stream.

Dispose of liquid waste via licensed waste disposal company. Follow Federal, State and Local regulation.

SECTION VIII. SPECIAL PROTECTION INFORMATION

Wear impervious gloves and safety glasses to prevent contact with the skin and eyes. If repeated or prolonged contact with liquid is likely, wear protective clothing including boots, apron, and faceshield or splash goggles. Remove contaminated clothing immediately and do not reuse until it has been properly laundered.

Eye wash stations and safety showers should be available in use and handling areas.

Contact lenses pose a special hazard; soft lenses may absorb and all lenses concentrate irritants.

SECTION IX. SPECIAL PRECAUTIONS AND COMMENTS

Store in closed containers in a cool, dry, well-ventilated area away from oxidizers, heat and open flame.

Protect container from physical damage.

Date Prepared: 11/09/90

Revision: 0

Seaboard Asphalt Products Company



PRODUCT DATA

DRIVEWAY SEALER

LN-11 EQUINOX ASPHALT GILSONITE DRIVEWAY SEALER

PRODUCT DESCRIPTION:

Seaboard Equinox Sealer is a superior gilsonite driveway sealer that dries to a beautiful black glossy surface.

BASIC USES:

Seaboard Equinox Sealer is used as a rejuvenator and sealer on bituminous asphalt parking lots and driveways.

LIMITATIONS:

DO NOT HEAT container. DO NOT APPLY on bituminous surfaces before they oxidize 60-90 days, inclined driveways, or over surfaces with a coal tar coating.

APPLICATION:

Seaboard Equinox Sealer should be applied to a thoroughly clean and dry bituminous surface after all cracks and holes have been filled with Seaboard Crackfiller. The material may be applied by brush, squeegee, or spray equipment at a rate of 60-80 square feet per gallon.

STORAGE:

Seaboard Equinox Sealer can be used year round and the only protection would be from weathering on the container.

COMPOSITION:

Asphalt	CAS 8052-42-4
Mineral Spirits	CAS 64741-41-9
Gilsonite	CAS 12002-43-6

This information is to assist customers in determining if this product is suitable for the proposed application, and to satisfy themselves as to suitability of the contents. Nothing herein shall constitute a warranty, expressed or implied, including any warranty of merchantability or fitness, nor is protection from law or patent implied.

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Seaboard Asphalt Products Company

MATERIAL SAFETY DATA SHEET

SEABOARD ASPHALT PRODUCTS COMPANY
3601 FAIRFIELD ROAD
BALTIMORE, MARYLAND 21226
(410) 355-0330 OR FAX (410) 355-5864

CHEMTREC
EMERGENCY
(SPILL, FIRE, EXPOSURE)
DAY OR NIGHT 800-424-9300

SECTION I. PRODUCT IDENTIFICATION

PRODUCT CODE: LN-11
PRODUCT NAME: Equinox Asphalt Gilsonite Driveway Sealer

SECTION II. INGREDIENT INFORMATION

	%	CAS	TLV
Asphalt	65-75	8052-42-4	5 mg/m ³
Mineral Spirits (Stoddard)	25-35	64741-41-9	100 ppm
Gilsonite	19-23	NA	5 mg/m ³

This product does not contain any materials listed by OSHA, NTP, or IARC as carcinogens.

SECTION III. HEALTH HAZARD INFORMATION

CAUTION! HEATING MAY RELEASE HYDROGEN SULFIDE GAS (H₂S)

EYE CONTACT: The cool material will cause minor eye irritation. However, thermal burns may result from contact with the hot material. The degree of the injury will depend on the amount of material that gets into the eye and the speed and thoroughness of the first aid treatment. Signs and symptoms may include, pain, tears, swelling, redness and blurred vision. This hazard evaluation is based on the data from similar materials.

SKIN CONTACT: The cool material will cause minor skin irritation. However, thermal burns may result from contact with the hot material. The degree of the injury will depend on the amount of material that gets on the skin and the speed and thoroughness of the first aid treatment. Signs and symptoms may include: pain, discoloration and swelling. This hazard evaluation is based on data from similar materials.

The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if it gets into the skin.

INHALATION: Fumes from the hot material can be unpleasant and may produce nausea and irritation of the upper respiratory tract. If inhaled, this substance is considered

practically non-toxic to internal organs. This substance contains sulfur compounds which may form hydrogen sulfide. the rotten eggs odor of hydrogen sulfide is unreliable as an indicator of concentration. Signs and symptoms of over exposure to hydrogen sulfide include respiratory tract irritation, headaches, dizziness, nausea, gastrointestinal disturbances, coughing, a sensation of dryness and pain in the nose, throat and chest, confusion and unconsciousness. Hydrogen sulfide concentrations of 1000 -2000 ppm can be extremely hazardous. This hazard evaluation is based on data from similar materials.

INGESTION: This is an unlikely route of entry, however if swallowed, this substance is considered practically non-toxic.

ADDITIONAL HEALTH DATA COMMENT: Studies in which mice were exposed to a variety of whole asphalts did not result in any increased cancer rate; mice exposed to asphalts diluted with hydrocarbon solvents had increased incidence of certain types of cancer. Brief or intermittent skin contact with this asphalt product is not expected to produce any delayed effects. While normal handling of this product is not likely to cause cancer in humans, skin contact and breathing of mists or vapors should be reduced to a minimum.

FIRST AID: EYE CONTACT: Flush eyes, including under eyelids, with running water for at least fifteen minutes. Get medical attention. **SKIN CONTACT:** If the hot, melted material gets on the skin, quickly cool in water. See a doctor for extensive burns. DO NOT try to peel the solidified material from the skin or use solvents or thinners to dissolve it. The use of vegetable oil or mineral oil is recommended for removal of this material from the skin. Flush exposed area with water while removing contaminated clothing. Get medical attention if irritation persists. **INHALATION:** If there are signs or symptoms of hydrogen sulfide exposure (respiratory tract irritation, headache, dizziness, nausea, gastrointestinal disturbances, coughing, a sensations of dryness or pain in the nose, throat and chest, confusion and unconsciousness), move the person to fresh air. If breathing has stopped, apply artificial respiration. Call a doctor. Note to physician: In addition to the use of 100% oxygen and supportive care, suggested treatment for hydrogen sulfide poisoning includes the use of nitrites. This is based on the similar mechanisms of toxicity between hydrogen sulfide and hydrogen cyanide. The nitrite-induced methemoglobin is thought to bind the toxic hydrosulfide ion. Initial inhalation of amyl nitrite pearls for 15 to 30 seconds if each minute should be initiated until 10 ml of a 3% solution of sodium nitrite can be administered intravenously at 2.5 to 5 ml per minute. While the efficacy of nitrites in hydrogen sulfide poisoning has not been unequivocally demonstrated, their use is recommended as part of the treatment regimen. Hyperbaric oxygen therapy has been used for cyanide poisoning with some success and may be of benefit in hydrogen sulfide poisoning if other measures are ineffective. **INGESTION:** Unlikely, if occurs give person milk or water. Keep head below the waist. Contact a physician or Poison Control Center. Never give anything by mouth to a person who is unconscious or having convulsions.

NFPA RATING: HEALTH - 1 FIRE - 2 REACTIVITY - 0

SECTION IV. FIRE AND EXPLOSION DATA

FLASH POINT AND METHOD: : ~ 110 °F Tag open cup
UPPER EXPLOSIVE LIMIT: Not Available
LOWER EXPLOSIVE LIMIT: Not Available

EXTINGUISHING MEDIA: Water, carbon dioxide and dry chemical. Use water spray to cool fire-exposed containers. A fine water mist may be used to smother fire or to disperse vapors. Do not use a solid stream of water since the stream will scatter and spread the fire. Fire fighters must wear self-contained breathing apparatus and full protective clothing when fighting fires involving this material.

SECTION V. REACTIVITY DATA

CAUTION! HEATING MAY RELEASE HYDROGEN SULFIDE GAS (H₂S)

This material is stable in closed containers at room temperature under normal storage and handling conditions. It does not polymerize. It is incompatible with strong oxidizing agents. Decomposition products can include carbon monoxide, carbon dioxide, and water vapor.

SECTION VI. PHYSICAL DATA

BOILING POINT: ~ 650 °F

APPEARANCE AND ODOR: Black liquid with organic odor

SECTION VII. SPILL, LEAK, AND DISPOSAL PROCEDURE

Notify safety personnel of large spills or leaks. Clean-up personnel need protection against liquid contact and vapor inhalation. Absorb small spills and collect liquid, if feasible, or absorb with vermiculite or sand. Do not flush to sewer or stream.

Dispose of liquid waste via licensed waste disposal company. Follow Federal, State and Local regulation.

SECTION VIII. SPECIAL PROTECTION INFORMATION

Wear impervious gloves and safety glasses to prevent contact with the skin and eyes. If repeated or prolonged contact with liquid is likely, wear protective clothing including boots, apron, and faceshield or splash goggles. Remove contaminated clothing immediately and do not reuse until it has been properly laundered.

Eye wash stations and safety showers should be available in use and handling areas.

Contact lenses pose a special hazard; soft lenses may absorb and all lenses concentrate irritants.

SECTION IX. SPECIAL PRECAUTIONS AND COMMENTS

Store in closed containers in a cool, dry, well-ventilated area away from oxidizers, heat and open flame.

Protect container from physical damage.

Date Prepared: 11/09/90

Seaboard Asphalt Products Company

MATERIAL SAFETY DATA SHEET

SEABOARD ASPHALT PRODUCTS COMPANY
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(SPILL, FIRE, EXPOSURE)
DAY OR NIGHT 800-424-
9300

SECTION I. PRODUCT IDENTIFICATION

PRODUCT CODE: LN-11
PRODUCT NAME: Equinox Asphalt Gilsonite Driveway Sealer *

SECTION II. INGREDIENT INFORMATION

	%	CAS	TLV
Asphalt	65-75	8052-42-4	5 mg/m ³
Mineral Spirits (Stoddard)	25-35	64741-41-9	100 ppm
Gilsonite	19-23	NA	5 mg/m ³

This product does not contain any materials listed by OSHA, NTP, or IARC as carcinogens.

SECTION III. HEALTH HAZARD INFORMATION

CAUTION! HEATING MAY RELEASE HYDROGEN SULFIDE GAS (H₂S)

EYE CONTACT: The cool material will cause minor eye irritation. However, thermal burns may result from contact with the hot material. The degree of the injury will depend on the amount of material that gets into the eye and the speed and thoroughness of the first aid treatment. Signs and symptoms may include, pain, tears, swelling, redness and blurred vision. This hazard evaluation is based on the data from similar materials.

SKIN CONTACT: The cool material will cause minor skin irritation. However, thermal burns may result from contact with the hot material. The degree of the injury will depend on the amount of material that gets on the skin and the speed and thoroughness of the first aid treatment. Signs and symptoms may include: pain, discoloration and swelling. This hazard evaluation is based on data from similar materials.
The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if it gets into the skin.

INHALATION: Fumes from the hot material can be unpleasant and may produce nausea and irritation of the upper respiratory tract. If inhaled, this substance is considered

practically non-toxic to internal organs. This substance contains sulfur compounds which may form hydrogen sulfide. the rotten eggs odor of hydrogen sulfide is unreliable as an indicator of concentration. Signs and symptoms of over exposure to hydrogen sulfide include respiratory tract irritation, headaches, dizziness, nausea, gastrointestinal disturbances, coughing, a sensation of dryness and pain in the nose, throat and chest, confusion and unconsciousness. Hydrogen sulfide concentrations of 1000 -2000 ppm can be extremely hazardous. This hazard evaluation is based on data from similar materials.

INGESTION: This is an unlikely route of entry, however if swallowed, this substance is considered practically non-toxic.

ADDITIONAL HEALTH DATA COMMENT: Studies in which mice were exposed to a variety of whole asphalts did not result in any increased cancer rate; mice exposed to asphalts diluted with hydrocarbon solvents had increased incidence of certain types of cancer. Brief or intermittent skin contact with this asphalt product is not expected to produce any delayed effects. While normal handling of this product is not likely to cause cancer in humans, skin contact and breathing of mists or vapors should be reduced to a minimum.

FIRST AID; EYE CONTACT: Flush eyes, including under eyelids, with running water for at least fifteen minutes. Get medical attention. **SKIN CONTACT:** If the hot, melted material gets on the skin, quickly cool in water. See a doctor for extensive burns. **DO NOT** try to peel the solidified material from the skin or use solvents or thinners to dissolve it. The use of vegetable oil or mineral oil is recommended for removal of this material from the skin. Flush exposed area with water while removing contaminated clothing. Get medical attention if irritation persists. **INHALATION:** If there are signs or symptoms of hydrogen sulfide exposure (respiratory tract irritation, headache, dizziness, nausea, gastrointestinal disturbances, coughing, a sensations of dryness or pain in the nose, throat and chest, confusion and unconsciousness), move the person to fresh air. If breathing has stopped, apply artificial respiration. Call a doctor. Note to physician: In addition to the use of 100% oxygen and supportive care, suggested treatment for hydrogen sulfide poisoning includes the use of nitrites. This is based on the similar mechanisms of toxicity between hydrogen sulfide and hydrogen cyanide. The nitrite-induced methemoglobin is thought to bind the toxic hydrosulfide ion. Initial inhalation of amyl nitrite pearls for 15 to 30 seconds if each minute should be initiated until 10 ml of a 3% solution of sodium nitrite can be administered intravenously at 2.5 to 5 ml per minute. While the efficacy of nitrites in hydrogen sulfide poisoning has not been unequivocally demonstrated, their use is recommended as part of the treatment regimen. Hyperbaric oxygen therapy has been used for cyanide poisoning with some success and may be of benefit in hydrogen sulfide poisoning if other measures are ineffective. **INGESTION:** Unlikely, if occurs give person milk or water. Keep head below the waist. Contact a physician or Poison Control Center. Never give anything by mouth to a person who is unconscious or having convulsions.

NFPA RATING: HEALTH - 1 FIRE - 2 REACTIVITY - 0

SECTION IV. FIRE AND EXPLOSION DATA

FLASH POINT AND METHOD: : ~ 110 °F Tag open cup
UPPER EXPLOSIVE LIMIT: Not Available
LOWER EXPLOSIVE LIMIT: Not Available

EXTINGUISHING MEDIA: Water, carbon dioxide and dry chemical. Use water spray to cool fire-exposed containers. A fine water mist may be used to smother fire or to disperse vapors. Do not use a solid stream of water since the stream will scatter and spread the fire. Fire fighters must wear self-contained breathing apparatus and full protective clothing when fighting fires involving this material.

SECTION V. REACTIVITY DATA

CAUTION! HEATING MAY RELEASE HYDROGEN SULFIDE GAS (H₂S)

This material is stable in closed containers at room temperature under normal storage and handling conditions. It does not polymerize. It is incompatible with strong oxidizing agents. Decomposition products can include carbon monoxide, carbon dioxide, and water vapor.

SECTION VI. PHYSICAL DATA

BOILING POINT: ~ 650 °F

APPEARANCE AND ODOR: Black liquid with organic odor

SECTION VII. SPILL, LEAK, AND DISPOSAL PROCEDURE

Notify safety personnel of large spills or leaks. Clean-up personnel need protection against liquid contact and vapor inhalation. Absorb small spills and collect liquid, if feasible, or absorb with vermiculite or sand. Do not flush to sewer or stream. Dispose of liquid waste via licensed waste disposal company. Follow Federal, State and Local regulation.

SECTION VIII. SPECIAL PROTECTION INFORMATION

Wear impervious gloves and safety glasses to prevent contact with the skin and eyes. If repeated or prolonged contact with liquid is likely, wear protective clothing including boots, apron, and faceshield or splash goggles. Remove contaminated clothing immediately and do not reuse until it has been properly laundered. Eye wash stations and safety showers should be available in use and handling areas. Contact lenses pose a special hazard; soft lenses may absorb and all lenses concentrate irritants.

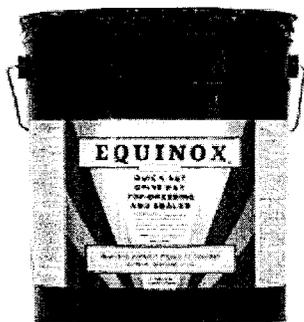
SECTION IX. SPECIAL PRECAUTIONS AND COMMENTS

Store in closed containers in a cool, dry, well-ventilated area away from oxidizers, heat and open flame.
Protect container from physical damage.

Date Prepared: 11/09/90

Revision: 0

Seaboard Asphalt Products Company



PRODUCT DATA

DRIVEWAY SEALER

LN-11 EQUINOX ASPHALT GILSONITE DRIVEWAY SEALER

PRODUCT DESCRIPTION:

Seaboard Equinox Sealer is a superior gilsonite driveway sealer that dries to a beautiful black glossy surface.

BASIC USES:

Seaboard Equinox Sealer is used as a rejuvenator and sealer on bituminous asphalt parking lots and driveways.

LIMITATIONS:

DO NOT HEAT container. DO NOT APPLY on bituminous surfaces before they oxidize 60-90 days, inclined driveways, or over surfaces with a coal tar coating.

APPLICATION:

Seaboard Equinox Sealer should be applied to a thoroughly clean and dry bituminous surface after all cracks and holes have been filled with Seaboard Crackfiller. The material may be applied by brush, squeegee, or spray equipment at a rate of 60-80 square feet per gallon.

STORAGE:

Seaboard Equinox Sealer can be used year round and the only protection would be from weathering on the container.

COMPOSITION:

Asphalt	CAS 8052-42-4
Mineral Spirits	CAS 64741-41-9
Gilsonite	CAS 12002-43-6

This information is to assist customers in determining if this product is suitable for the proposed application, and to satisfy themselves as to suitability of the contents. Nothing herein shall constitute a warranty, expressed or implied, including any warranty of merchantability or fitness, nor is protection from law or patent implied.

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Seaboard Asphalt Products Company

MATERIAL SAFETY DATA SHEET

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SECTION I. PRODUCT IDENTIFICATION

PRODUCT CODE: LN-11
PRODUCT NAME: Equinox Asphalt Gilsonite Driveway Sealer

SECTION II. INGREDIENT INFORMATION

	<u>%</u>	<u>CAS</u>	<u>TLV</u>
Asphalt	65-75	8052-42-4	5 mg/m ³
Mineral Spirits (Stoddard)	25-35	64741-41-9	100 ppm
Gilsonite	19-23	NA	5 mg/m ³

This product does not contain any materials listed by OSHA, NTP, or IARC as carcinogens.

SECTION III. HEALTH HAZARD INFORMATION

CAUTION! HEATING MAY RELEASE HYDROGEN SULFIDE GAS (H₂S)

EYE CONTACT: The cool material will cause minor eye irritation. However, thermal burns may result from contact with the hot material. The degree of the injury will depend on the amount of material that gets into the eye and the speed and thoroughness of the first aid treatment. Signs and symptoms may include, pain, tears, swelling, redness and blurred vision. This hazard evaluation is based on the data from similar materials.

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The systemic toxicity of this substance has not been determined. However, it should be practically non-toxic to internal organs if it gets into the skin.

INHALATION: Fumes from the hot material can be unpleasant and may produce nausea and irritation of the upper respiratory tract. If inhaled, this substance is considered

practically non-toxic to internal organs. This substance contains sulfur compounds which may form hydrogen sulfide. the rotten eggs odor of hydrogen sulfide is unreliable as an indicator of concentration. Signs and symptoms of over exposure to hydrogen sulfide include respiratory tract irritation, headaches, dizziness, nausea, gastrointestinal disturbances, coughing, a sensation of dryness and pain in the nose, throat and chest, confusion and unconsciousness. Hydrogen sulfide concentrations of 1000 -2000 ppm can be extremely hazardous. This hazard evaluation is based on data from similar materials.

INGESTION: This is an unlikely route of entry, however if swallowed, this substance is considered practically non-toxic.

ADDITIONAL HEALTH DATA COMMENT: Studies in which mice were exposed to a variety of whole asphalts did not result in any increased cancer rate; mice exposed to asphalts diluted with hydrocarbon solvents had increased incidence of certain types of cancer. Brief or intermittent skin contact with this asphalt product is not expected to produce any delayed effects. While normal handling of this product is not likely to cause cancer in humans, skin contact and breathing of mists or vapors should be reduced to a minimum.

FIRST AID: EYE CONTACT: Flush eyes, including under eyelids, with running water for at least fifteen minutes. Get medical attention. SKIN CONTACT: If the hot, melted material gets on the skin, quickly cool in water. See a doctor for extensive burns. DO NOT try to peel the solidified material from the skin or use solvents or thinners to dissolve it. The use of vegetable oil or mineral oil is recommended for removal of this material from the skin. Flush exposed area with water while removing contaminated clothing. Get medical attention if irritation persists. INHALATION: If there are signs or symptoms of hydrogen sulfide exposure(respiratory tract irritation, headache, dizziness, nausea, gastrointestinal disturbances, coughing, a sensations of dryness or pain in the nose, throat and chest, confusion and unconsciousness), move the person to fresh air. If breathing has stopped, apply artificial respiration. Call a doctor. Note to physician: In addition to the use of 100% oxygen and supportive care, suggested treatment for hydrogen sulfide poisoning includes the use of nitrites. This is based on the similar mechanisms of toxicity between hydrogen sulfide and hydrogen cyanide. The nitrite-induced methemoglobin is thought to bind the toxic hydrosulfide ion. Initial inhalation of amyl nitrite pearls for 15 to 30 seconds if each minute should be initiated until 10 ml of a 3% solution of sodium nitrite can be administered intravenously at 2.5 to 5 ml per minute. While the efficacy of nitrites in hydrogen sulfide poisoning has not been unequivocally demonstrated, their use is recommended as part of the treatment regimen. Hyperbaric oxygen therapy has been used for cyanide poisoning with some success and may be of benefit in hydrogen sulfide poisoning if other measures are ineffective. INGESTION: Unlikely, if occurs give person milk or water. Keep head below the waist. Contact a physician or Poison Control Center. Never give anything by mouth to a person who is unconscious or having convulsions.

NFPA RATING: HEALTH - 1 FIRE - 2 REACTIVITY - 0

SECTION IV. FIRE AND EXPLOSION DATA

FLASH POINT AND METHOD: : ~ 110 °F Tag open cup

UPPER EXPLOSIVE LIMIT: Not Available

LOWER EXPLOSIVE LIMIT: Not Available

EXTINGUISHING MEDIA: Water, carbon dioxide and dry chemical. Use water spray to cool fire-exposed containers. A fine water mist may be used to smother fire or to disperse vapors. Do not use a solid stream of water since the stream will scatter and spread the fire. Fire fighters must wear self-contained breathing apparatus and full protective clothing when fighting fires involving this material.

SECTION V. REACTIVITY DATA

CAUTION! HEATING MAY RELEASE HYDROGEN SULFIDE GAS (H₂S)

This material is stable in closed containers at room temperature under normal storage and handling conditions. It does not polymerize. It is incompatible with strong oxidizing agents. Decomposition products can include carbon monoxide, carbon dioxide, and water vapor.

SECTION VI. PHYSICAL DATA

BOILING POINT: ~ 650 °F

APPEARANCE AND ODOR: Black liquid with organic odor

SECTION VII. SPILL, LEAK, AND DISPOSAL PROCEDURE

Notify safety personnel of large spills or leaks. Clean-up personnel need protection against liquid contact and vapor inhalation. Absorb small spills and collect liquid, if feasible, or absorb with vermiculite or sand. Do not flush to sewer or stream.

Dispose of liquid waste via licensed waste disposal company. Follow Federal, State and Local regulation.

SECTION VIII. SPECIAL PROTECTION INFORMATION

Wear impervious gloves and safety glasses to prevent contact with the skin and eyes. If repeated or prolonged contact with liquid is likely, wear protective clothing including boots, apron, and faceshield or splash goggles. Remove contaminated clothing immediately and do not reuse until it has been properly laundered.

Eye wash stations and safety showers should be available in use and handling areas.

Contact lenses pose a special hazard; soft lenses may absorb and all lenses concentrate irritants.

SECTION IX. SPECIAL PRECAUTIONS AND COMMENTS

Store in closed containers in a cool, dry, well-ventilated area away from oxidizers, heat and open flame.

Protect container from physical damage.

Date Prepared: 11/09/90

Revision: 0