

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/21/2015

Reviewed on 05/21/2015

1 Identification

- **Product identifier**
- **Trade name:** SSI Deck Seal - Part A
- **Article number:** 87-140038A
- **Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- **Application of the substance / the mixture**
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Silicone Specialties, Inc. Tel.: (918) 587-5567
 430 South Rockford Fax : (918) 582-7510
 Tulsa, OK 74120 Web: www.ssicm.com





- Emergency Telephone Number: Use only in the event of an emergency involving a spill, leak, fire, exposure, or accident involving chemicals. Within the U.S., Canada, or the U.S. Virgin Islands, call ChemTrec at (800) 424-9300, 24 hours a day.
- **Information department:** Environmental, Health, and Safety department.

2 Hazard(s) identification

- **Classification of the substance or mixture**
 Flam. Liq. 3 H226 Flammable liquid and vapour.
 Muta. 1B H340 May cause genetic defects.
 Carc. 1B H350 May cause cancer.
 Repr. 2 H361 Suspected of damaging fertility or the unborn child.
 Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
 Skin Corr. 1B H314 Causes severe skin burns and eye damage.
 Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 May cause eye and skin irritation. Prolonged contact may cause sensitization.
- **Information concerning particular hazards for human and environment:**
 The product has to be labelled due to internationally acknowledged calculation procedures using the latest valid versions.
- **Classification system:**
 The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**

			
GHS02	GHS05	GHS07	GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)
 Solvent naphtha (petroleum), light arom.
 4-nonylphenol, branched
 2,3-epoxypropyl o-tolyl ether

(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/21/2015

Reviewed on 05/21/2015

Trade name: SSI Deck Seal - Part A

(Contd. of page 1)

- **Hazard statements**

Flammable liquid and vapour.
 Causes severe skin burns and eye damage.
 May cause an allergic skin reaction.
 May cause genetic defects.
 May cause cancer.
 Suspected of damaging fertility or the unborn child.
 May be fatal if swallowed and enters airways.

- **Precautionary statements**

If medical advice is needed, have product container or label at hand.
 Keep out of reach of children.
 Read label before use.
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 Use explosion-proof electrical/ventilating/lighting/equipment.
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Store locked up.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**

- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

HEALTH	1	Health = 1
FIRE	2	Fire = 2
PHYSICAL HAZARD	0	Reactivity = 0

- **Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**

- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)	50-75%
95-63-6	1,2,4-trimethylbenzene	10-25%
64742-95-6	Solvent naphtha (petroleum), light arom.	10-25%
2210-79-9	2,3-epoxypropyl o-tolyl ether	≤ 10%
108-67-8	mesitylene	≤ 5%
98-82-8	cumene	≤ 1%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

USA

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/21/2015

Reviewed on 05/21/2015

Trade name: SSI Deck Seal - Part A

(Contd. of page 2)

4 First-aid measures

- **Description of first aid measures**
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** If skin irritation continues, consult a doctor.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Seek medical treatment.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** CO₂, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:**
Because fire may produce thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face piece operated in pressure-demand or positive-pressure mode.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Precautions for safe handling**
Wear appropriate personal protective clothing to prevent eye and skin contact. Avoid breathing vapors or mists of this product. Use with adequate ventilation. Do not take internally.
- **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/21/2015

Reviewed on 05/21/2015

Trade name: SSI Deck Seal - Part A

(Contd. of page 3)

- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

95-63-6 1,2,4-trimethylbenzene

REL Long-term value: 125 mg/m³, 25 ppmTLV Long-term value: 123 mg/m³, 25 ppm

108-67-8 mesitylene

REL Long-term value: 125 mg/m³, 25 ppmTLV Long-term value: 123 mg/m³, 25 ppm

25340-17-4 diethylbenzene

WEEL Long-term value: 5 ppm

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Avoid contact with the eyes and skin.

- **Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

- **Eye protection:** Wear appropriate eye protection to prevent eye contact.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Liquid

Color: According to product specification

- **Odor:** Characteristic

- **Odour threshold:** Not determined.

- **pH-value:** Not determined.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/21/2015

Reviewed on 05/21/2015

Trade name: SSI Deck Seal - Part A

(Contd. of page 4)

· Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	153 °C (307 °F)
· Flash point:	38 °C (100 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	450 °C (842 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	0.7 Vol %
Upper:	7.5 Vol %
· Vapor pressure at 20 °C (68 °F):	5 hPa (4 mm Hg)
· Density at 20 °C (68 °F):	1.109 g/cm ³ (9.255 lbs/gal)
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix.
· Partition coefficient (n-octanol/water): Not determined.	
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	25.0 %
Solids content: 75.0 %	
· Other information No further relevant information available.	
· Volatile Organic Compounds: Not determined	

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

USA

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/21/2015

Reviewed on 05/21/2015

Trade name: SSI Deck Seal - Part A

(Contd. of page 5)

11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

95-63-6 1,2,4-trimethylbenzene

Oral	LD50	5000 mg/kg (rat)
------	------	------------------

64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6800 mg/kg (rat)
------	------	-------------------

Dermal	LD50	>3400 mg/kg (rab)
--------	------	-------------------

Inhalative	LC50/4 h	>10.2 mg/l (rat)
------------	----------	------------------

- **Primary irritant effect:**

- **on the skin:** May cause skin irritation.

- **on the eye:** Irritating effect.

- **Sensitization:** Sensitization possible through skin contact.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

Carcinogenic.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

1330-20-7	xylene	3
100-41-4	ethylbenzene	2B
71-43-2	benzene	1
108-88-3	toluene	3

- **NTP (National Toxicology Program)**

71-43-2	benzene	K
---------	---------	---

- **OSHA-Ca (Occupational Safety & Health Administration)**

71-43-2	benzene	
---------	---------	--

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Ecotoxicological effects:**

- **Remark:** Toxic for fish

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/21/2015

Reviewed on 05/21/2015

Trade name: SSI Deck Seal - Part A

(Contd. of page 6)

· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**

· **Recommendation:**

It is the generator's responsibility to determine if the waste meets applicable definitions of hazardous waste. State and local regulations may differ from federal disposal regulations. Dispose of waste material according to local, state, federal, and provincial environmental regulations.

· **Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to Federal, State, and Local regulations.

14 Transport information

· **UN-Number**

· **DOT**

NA1993

· **ADR, IMDG, IATA**

UN1993

· **UN proper shipping name**

· **DOT**

COMBUSTIBLE LIQUID, N.O.S (Aromatic Solvent)

· **ADR**

1993 Flammable liquids, n.o.s. (Aromatic Solvent), ENVIRONMENTALLY HAZARDOUS

· **IMDG**

FLAMMABLE LIQUID, N.O.S. (Aromatic Solvent), MARINE POLLUTANT

· **IATA**

FLAMMABLE LIQUID, N.O.S. (Aromatic Solvent)

· **Transport hazard class(es)**

· **DOT**



· **Class**

3 Combustible liquids

· **Label**

3

· **ADR, IMDG**



· **Class**

3 Combustible liquids

· **Label**

3

· **IATA**



· **Class**

3 Combustible liquids

· **Label**

3

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/21/2015

Reviewed on 05/21/2015

Trade name: SSI Deck Seal - Part A

(Contd. of page 7)

· Packing group · DOT, ADR, IMDG, IATA	III
· Environmental hazards: · Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· Special precautions for user · Danger code (Kemler): · EMS Number:	Warning: Combustable liquids 36 F-E, <u>S</u> -D
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information: · DOT · Remarks:	Add "Marine Pollutant" to end of proper shipping name if shipping in a bulk container (>119 gallons). Special marking with the symbol (fish and tree). Not a Regulated Material shipping less than 119 gallons per container.
· ADR · Excepted quantities (EQ) · Remarks: · U.S. Domestic Ground Shipments: · U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments: · Emergency Response Guide (ERG) Number:	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml Not a Regulated Material shipping less than 119 gallons per container. Same as listed for Standard Shipments above. DOT: Not regulated (Reclassified as per 49CFR 173.150). Not determine
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN1993, Flammable liquids, n.o.s. (Aromatic Solvent), ENVIRONMENTALLY HAZARDOUS, 3, III

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture

· Sara

· **Section 355 (extremely hazardous substances):**

None of the ingredient is listed.

· **Section 313 (Specific toxic chemical listings):**

This product may contain 1 or more toxic chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR part 372. If so, the chemicals are listed below.

95-63-6	1,2,4-trimethylbenzene				
---------	------------------------	--	--	--	--

10-25%

(Contd. on page 9)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/21/2015

Reviewed on 05/21/2015

Trade name: SSI Deck Seal - Part A

(Contd. of page 8)

1330-20-7	xylene	≤1%
98-82-8	cumene	≤1%
100-41-4	ethylbenzene	≤1%
71-43-2	benzene	≤0.01%
108-88-3	toluene	≤0.01%

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to the State of California (Prop. 65) to cause cancer:**

25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)	
64742-95-6	Solvent naphtha (petroleum), light arom.	
98-82-8	cumene	
100-41-4	ethylbenzene	
71-43-2	benzene	

· **Chemicals known to cause reproductive toxicity for females:**

108-88-3	toluene	
----------	---------	--

· **Chemicals known to cause reproductive toxicity for males:**

71-43-2	benzene	
---------	---------	--

· **Chemicals known to cause developmental toxicity:**

71-43-2	benzene	
108-88-3	toluene	

· **Carcinogen categories**

· **EPA (Environmental Protection Agency)**

1330-20-7	xylene	I
98-82-8	cumene	D, CBD
100-41-4	ethylbenzene	D
71-43-2	benzene	A, K/L
108-88-3	toluene	II

· **TLV (Threshold Limit Value established by ACGIH)**

1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
71-43-2	benzene	A1
108-88-3	toluene	A4

· **MAK (German Maximum Workplace Concentration)**

100-41-4	ethylbenzene	3A
71-43-2	benzene	I

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

71-43-2	benzene	
---------	---------	--

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

(Contd. on page 10)

Safety Data Sheet

acc. to OSHA HCS

Printing date 05/21/2015

Reviewed on 05/21/2015

Trade name: SSI Deck Seal - Part A

(Contd. of page 9)

· **Hazard pictograms**· **Signal word** Danger· **Hazard-determining components of labeling:**

reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

Solvent naphtha (petroleum), light arom.

4-nonylphenol, branched

2,3-epoxypropyl o-tolyl ether

· **Hazard statements**

Flammable liquid and vapour.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause genetic defects.

May cause cancer.

Suspected of damaging fertility or the unborn child.

May be fatal if swallowed and enters airways.

· **Precautionary statements**

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

Keep out of reach of children.

Read label before use.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Use explosion-proof electrical/ventilating/lighting/equipment.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

· **National regulations:**· **Information about limitation of use:**

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· **Water hazard class:** Water hazard class 3 (Self-assessment): extremely hazardous for water.· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing MSDS:** Environmental, Health & Safety Department· **Contact:** Environmental, Health & Safety Manager· **Date of preparation / last revision** 05/21/2015 / 27· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

(Contd. on page 11)

Safety Data Sheet
acc. to OSHA HCS

Printing date 05/21/2015

Reviewed on 05/21/2015

Trade name: SSI Deck Seal - Part A

(Contd. of page 10)

EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. Liq. 3: Flammable liquids, Hazard Category 3
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1
Muta. 1B: Germ cell mutagenicity, Hazard Category 1B
Carc. 1B: Carcinogenicity, Hazard Category 1B
Repr. 2: Reproductive toxicity, Hazard Category 2
Asp. Tox. 1: Aspiration hazard, Hazard Category 1

USA