

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 06/01/2017

Reviewed on 06/01/2017

### 1 Identification

· **Product identifier**

· **Trade name:** Bridge Seal 75% - Part A

· **Article number:** 87-140039A

· **Application of the substance / the mixture**

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Unitex®

3101 Gardner

Kansas city, MO 64120

Tel: (800) 821-5846

Fax: (816) 483-3149

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. Or, outside these areas, call (703) 527-3887. Collect calls are accepted.

· **Information department:** Environmental, Health, and Safety department.

### 2 Hazard(s) identification

· **Classification of the substance or mixture**

Flam. Liq. 3 H226 Flammable liquid and vapor.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

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.

· **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

· **Hazard statements**

Flammable liquid and vapor.

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.

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- **Precautionary statements**

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

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

If on skin (or hair): 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%
84852-15-3	4-nonylphenol, branched	≤ 10%
108-67-8	mesitylene	≤ 5%
25340-17-4	diethylbenzene	≤ 2.5%
98-82-8	cumene	≤ 1%
100-41-4	ethylbenzene	≤ 1%

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

### 4 First-aid measures

- **Description of first aid measures**

- **General information:**

Immediately remove any clothing soiled by the product.

In the event of persistent symptoms receive medical treatment.

- **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.

Immediately move exposed person to fresh air. If breathing difficulty persists or develops get prompt medical attention.

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- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
Immediately rinse with water.  
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.
- **Information for doctor:**
- **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:**  
CO<sub>2</sub>, sand, extinguishing powder. Do not use water.  
Foam
- **For safety reasons unsuitable extinguishing agents:** Water
- **Special hazards arising from the substance or mixture** Formation of toxic gases is possible during heating or in case of fire.
- **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:**  
Do not allow product to reach sewage system or any water course.  
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.
- **Protective Action Criteria for Chemicals**

- **PAC-I:**

25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)	90 mg/m <sup>3</sup>
95-63-6	1,2,4-trimethylbenzene	140 ppm
84852-15-3	4-nonylphenol, branched	3.9 mg/m <sup>3</sup>
108-67-8	mesitylene	140 ppm
25340-17-4	diethylbenzene	10 ppm
1330-20-7	xylene	130 ppm
98-82-8	cumene	50 ppm
100-41-4	ethylbenzene	33 ppm

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71-43-2	benzene	52 ppm
108-88-3	toluene	67 ppm

**· PAC-2:**

25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)	990 mg/m <sup>3</sup>
95-63-6	1,2,4-trimethylbenzene	360 ppm
84852-15-3	4-nonylphenol, branched	43 mg/m <sup>3</sup>
108-67-8	mesitylene	360 ppm
25340-17-4	diethylbenzene	100 ppm
1330-20-7	xylene	920* ppm
98-82-8	cumene	300 ppm
100-41-4	ethylbenzene	1100* ppm
71-43-2	benzene	800 ppm
108-88-3	toluene	560 ppm

**· PAC-3:**

25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)	5,900 mg/m <sup>3</sup>
95-63-6	1,2,4-trimethylbenzene	480 ppm
84852-15-3	4-nonylphenol, branched	260 mg/m <sup>3</sup>
108-67-8	mesitylene	480 ppm
25340-17-4	diethylbenzene	500 ppm
1330-20-7	xylene	2500* ppm
98-82-8	cumene	730 ppm
100-41-4	ethylbenzene	1800* ppm
71-43-2	benzene	4000* ppm
108-88-3	toluene	3700* ppm

## 7 Handling and storage

**· Handling:****· 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:** cool and dry

**· Requirements to be met by storerooms and receptacles:** No special requirements.

**· Information about storage in one common storage facility:** Store away from foodstuffs.

**· Further information about storage conditions:** Keep receptacle tightly sealed.

**· Specific end use(s)** No further relevant information available.

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## 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:**

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

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

REL Long-term value: 125 mg/m<sup>3</sup>, 25 ppm

TLV Long-term value: 123 mg/m<sup>3</sup>, 25 ppm

### 108-67-8 mesitylene

REL Long-term value: 125 mg/m<sup>3</sup>, 25 ppm

TLV Long-term value: 123 mg/m<sup>3</sup>, 25 ppm

### 25340-17-4 diethylbenzene

WEEL Long-term value: 5 ppm

### 98-82-8 cumene

PEL Long-term value: 245 mg/m<sup>3</sup>, 50 ppm  
Skin

REL Long-term value: 245 mg/m<sup>3</sup>, 50 ppm  
Skin

TLV Long-term value: 246 mg/m<sup>3</sup>, 50 ppm

### 100-41-4 ethylbenzene

PEL Long-term value: 435 mg/m<sup>3</sup>, 100 ppm

REL Short-term value: 545 mg/m<sup>3</sup>, 125 ppm  
Long-term value: 435 mg/m<sup>3</sup>, 100 ppm

TLV Long-term value: 87 mg/m<sup>3</sup>, 20 ppm  
BEI

· **Ingredients with biological limit values:**

### 100-41-4 ethylbenzene

BEI 0.7 g/g creatinine

Medium: urine

Time: end of shift at end of workweek

Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)

-

Medium: end-exhaled air

Time: not critical

Parameter: Ethyl benzene (semi-quantitative)

· **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.

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· **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

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **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<sup>3</sup> (9.255 lbs/gal)

· **Relative density** Not determined.

· **Vapor 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 at 20 °C (68 °F):** 0 mPas

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<b>Kinematic:</b>	Not determined.
<b>Solvent content:</b>	
<b>Organic solvents:</b>	26.6 %
<b>Solids content:</b>	75.0 %
<b>Other information</b>	No further relevant information available.
<b>Volatile Organic Compounds:</b>	Not determined

## 10 Stability and reactivity

- **Reactivity** No decomposition if stored and applied as directed.
- **Chemical stability** No decomposition if stored and applied as directed
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** Keep away from heat and sources of ignition.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>95-63-6 1,2,4-trimethylbenzene</b>		
Oral	LD50	5000 mg/kg (rat)
<b>64742-95-6 Solvent naphtha (petroleum), light arom.</b>		
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.  
The product can cause inheritable damage.

- **Carcinogenic categories**

· <b>IARC (International Agency for Research on Cancer)</b>		
1330-20-7	xylene	3
98-82-8	cumene	2B
100-41-4	ethylbenzene	2B
71-43-2	benzene	1
108-88-3	toluene	3

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· <b>NTP (National Toxicology Program)</b>	
98-82-8	cumene <span style="float: right;">R</span>
71-43-2	benzene <span style="float: right;">K</span>
· <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>	
71-43-2	benzene

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **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.
- **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

· <b>UN-Number</b>	
· <b>DOT</b>	NA1993
· <b>ADR, IMDG, IATA</b>	UN1993
· <b>UN proper shipping name</b>	
· <b>DOT</b>	COMBUSTIBLE LIQUID, N.O.S (Aromatic Solvent)
· <b>ADR</b>	1993 Flammable liquids, n.o.s. (Aromatic Solvent)
· <b>IMDG</b>	FLAMMABLE LIQUID, N.O.S. (Aromatic Solvent), MARINE POLLUTANT
· <b>IATA</b>	FLAMMABLE LIQUID, N.O.S. (Aromatic Solvent)

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· **Transport hazard class(es)**· **DOT**· **Class**

3 Combustible liquids

· **Label**

3, 8

· **ADR**· **Class**

3 Flammable liquids

· **Label**

3+8

· **IMDG**· **Class**

3 Flammable liquids

· **Label**

3/8

· **IATA**· **Class**

3 Flammable liquids

· **Label**

3 (8)

· **Packing group**· **DOT, ADR, IMDG, IATA**

III

· **Environmental hazards:**

Product contains environmentally hazardous substances: 4-nonylphenol, branched, reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)

· **Marine pollutant:**

Yes

· **Special marking (ADR):**

Symbol (fish and tree)

Symbol (fish and tree)

· **Special precautions for user**

Warning: Flammable liquids

· **Danger code (Kemler):**

38

· **EMS Number:**F-E,S-E· **Stowage Category**

A

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

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· **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:**

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.

· **U.S. Domestic Ground Shipments:**

· **U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:**

DOT: Not regulated (Reclassified as per 49CFR 173.150).

· **Emergency Response Guide (ERG) Number:**

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":**

UN 1993 FLAMMABLE LIQUIDS, N.O.S. (AROMATIC SOLVENT), 3 (8), 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%
84852-15-3	4-nonylphenol, branched	≤10%
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.

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· **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:**

None of the ingredients is listed.

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

71-43-2	benzene
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· **Chemicals known to cause developmental toxicity:**

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

· **Carcinogenicity categories**· **EPA (Environmental Protection Agency)**

95-63-6	1,2,4-trimethylbenzene	II
108-67-8	mesitylene	II
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
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· **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.

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4-nonylphenol, branched

2,3-epoxypropyl o-tolyl ether

- **Hazard statements**

Flammable liquid and vapor.

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**

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

IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

If on skin (or hair): 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 SDS:** Environmental, Health & Safety Department

- **Contact:** Environmental, Health & Safety Manager

- **Date of preparation / last revision** 06/01/2017 / 46

- **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

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

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 3: Flammable liquids – Category 3

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

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*Muta. 1B: Germ cell mutagenicity – Category 1B*

*Carc. 1B: Carcinogenicity – Category 1B*

*Repr. 2: Reproductive toxicity – Category 2*

*Asp. Tox. 1: Aspiration hazard – Category 1*

US