

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/03/2020

Reviewed on 03/03/2020

1 Identification

- **Product identifier**
- **Trade name:** Bridge Seal 75% - Part A
- **Article number:** 140039A
- **Application of the substance / the mixture**
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
Dayton® Superior
4226 Kansas Avenue
Kansas City, KS 66106

Tel.: (866) 329-8724

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 international number, +1 703 741-5970. 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**

If swallowed: Immediately call a poison center/doctor.

Specific treatment (see on this label).

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	3	Health = *3
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)	≥25-<60%
95-63-6	1,2,4-trimethylbenzene	≥10-<12%
64742-95-6	Solvent naphtha (petroleum), light arom.	≥0.1-<11%
2210-79-9	2,3-epoxypropyl o-tolyl ether	≥2.5-<7.5%
84852-15-3	4-nonylphenol, branched	≥5-<5.5%
108-67-8	mesitylene	≥2.5-<3.25%
25340-17-4	diethylbenzene	≤1.4%
98-82-8	cumene	≥0.25-<0.6%
100-41-4	ethylbenzene	≥0.1-<0.2%

- **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.

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

· **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:**

CO₂, 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.

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.

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- **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.

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/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

98-82-8 cumene

PEL Long-term value: 245 mg/m³, 50 ppm
SkinREL Long-term value: 245 mg/m³, 50 ppm
SkinTLV Long-term value: (246) NIC-0.5 mg/m³, (50) NIC-0.1 ppm
NIC-A3

100-41-4 ethylbenzene

PEL Long-term value: 435 mg/m³, 100 ppmREL Short-term value: 545 mg/m³, 125 ppm
Long-term value: 435 mg/m³, 100 ppmTLV Long-term value: 87 mg/m³, 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)

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Medium: end-exhaled air

Time: not critical

Parameter: Ethyl benzene (semi-quantitative)

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· **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

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 153 °C (307.4 °F)

· **Flash point:** 38 °C (100.4 °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 (3.8 mm Hg)

· **Density at 20 °C (68 °F):** 1.109 g/cm³ (9.25461 lbs/gal)

· **Relative density** Not determined.

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· 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:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	26.6 %
Solids content:	75.0 %
· Other information	No further relevant information available.
· Volatile Organic Compounds:	Contains less than 10 g/L

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:**

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

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

Oral	LD50	5,000 mg/kg (rat)
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64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	>6,800 mg/kg (rat)
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Dermal	LD50	>3,400 mg/kg (rab)
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Inhalative	LC50/4 h	>10.2 mg/l (rat)
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- **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.

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· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

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

· **NTP (National Toxicology Program)**

98-82-8	cumene	R
71-43-2	benzene	K

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

71-43-2	benzene	
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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.

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Trade name: Bridge Seal 75% - Part A

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14 Transport information

<ul style="list-style-type: none"> · UN-Number · DOT · ADR, IMDG, IATA 	<p>NA1993 UN1993</p>
<ul style="list-style-type: none"> · UN proper shipping name · DOT · ADR · IMDG · IATA 	<p>COMBUSTIBLE LIQUID, N.O.S (Aromatic Solvent) 1993 FLAMMABLE LIQUID, N.O.S. (Aromatic Solvent), ENVIRONMENTALLY HAZARDOUS FLAMMABLE LIQUID, N.O.S. (Aromatic Solvent), MARINE POLLUTANT FLAMMABLE LIQUID, N.O.S. (Aromatic Solvent)</p>
<ul style="list-style-type: none"> · Transport hazard class(es) · DOT 	<p>3 Combustible liquids 3, 8</p>
<ul style="list-style-type: none"> · Class · Label 	<p>3 3</p>
<ul style="list-style-type: none"> · ADR 	<p>3 3</p>
<ul style="list-style-type: none"> · Class · Label 	<p>3 Flammable liquids 3+8</p>
<ul style="list-style-type: none"> · IMDG 	<p>3 3</p>
<ul style="list-style-type: none"> · Class · Label 	<p>3 Flammable liquids 3/8</p>
<ul style="list-style-type: none"> · IATA 	<p>3 3</p>
<ul style="list-style-type: none"> · Class · Label 	<p>3 Flammable liquids 3 (8)</p>
<ul style="list-style-type: none"> · Packing group · DOT, ADR, IMDG, IATA 	<p>III</p>
<ul style="list-style-type: none"> · Environmental hazards: 	<p>Product contains environmentally hazardous substances: 4-nonylphenol, branched, reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)</p>

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Trade name: Bridge Seal 75% - Part A

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· Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· Special precautions for user	Warning: Flammable liquids
· Danger code (Kemler):	38
· EMS Number:	F-E, <u>S-E</u>
· Stowage Category	A
· 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)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· Remarks:	Not a Regulated Material shipping less than 119 gallons per container.
· U.S. Domestic Ground Shipments:	Same as listed for Standard Shipments above.
· 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)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (AROMATIC SOLVENT), 3 (8), III, ENVIRONMENTALLY HAZARDOUS

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- <12%
84852-15-3	4-nonylphenol, branched	≥5- <5.5%
1330-20-7	xylene	<0.6%

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98-82-8	cumene	≥0.25-<0.6%
100-41-4	ethylbenzene	≥0.1-<0.2%
71-43-2	benzene	<0.1%
108-88-3	toluene	<0.1%

· TSCA (Toxic Substances Control Act):

25068-38-6	reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight = 700)	ACTIVE
95-63-6	1,2,4-trimethylbenzene	ACTIVE
64742-95-6	Solvent naphtha (petroleum), light arom.	ACTIVE
2210-79-9	2,3-epoxypropyl o-tolyl ether	ACTIVE
84852-15-3	4-nonylphenol, branched	ACTIVE
108-67-8	mesitylene	ACTIVE
25340-17-4	diethylbenzene	ACTIVE
1330-20-7	xylene	ACTIVE
98-82-8	cumene	ACTIVE
100-41-4	ethylbenzene	ACTIVE
71-43-2	benzene	ACTIVE
108-88-3	toluene	ACTIVE

· Hazardous Air Pollutants

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

· 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

· Cancerogenity categories

· EPA (Environmental Protection Agency)

95-63-6	1,2,4-trimethylbenzene	II
108-67-8	mesitylene	II
1330-20-7	xylene	I

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

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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.

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**

If swallowed: Immediately call a poison center/doctor.

Specific treatment (see on this label).

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.

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Trade name: Bridge Seal 75% - Part A

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· **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** 03/03/2020 / 51

· **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 & 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

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

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1 Identification

- **Product identifier**

- **Trade name:** Bridge Seal 75% - Part B

- **Article number:** 140039B

- **Application of the substance / the mixture**

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

- **Manufacturer/Supplier:**

Dayton® Superior
4226 Kansas Avenue
Kansas City, KS 66106

Tel.: (866) 329-8724

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 international number, +1 703 741-5970. 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.

Acute Tox. 4 H302 Harmful if swallowed.

Skin Corr. 1C 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.

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

- **Label elements**

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

- **Hazard pictograms**



GHS02 GHS05 GHS07 GHS08 GHS09

- **Signal word** Danger

- **Hazard-determining components of labeling:**

4-nonylphenol, branched

Solvent naphtha (petroleum), light arom.

3,6-diazaoctanethylenediamin

2,4,6-tris(dimethylaminomethyl)phenol

cyclohex-1,2-ylenediamine

- **Hazard statements**

Flammable liquid and vapor.

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

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*May cause genetic defects.**May cause cancer.**Suspected of damaging fertility or the unborn child.**Very toxic to aquatic life.**Very toxic to aquatic life with long lasting effects.***· Precautionary statements***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.**Immediately call a poison center/doctor.**Specific treatment (see on this label).**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.***· Classification system:****· NFPA ratings (scale 0 - 4)**

Health = 3

Fire = 2

Reactivity = 0

· HMIS-ratings (scale 0 - 4)

HEALTH	3
FIRE	2
PHYSICAL HAZARD	0

Health = *3

Fire = 2

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:**

84852-15-3	4-nonylphenol, branched	≥25- <50%
95-63-6	1,2,4-trimethylbenzene	≥10- <11%
64742-95-6	Solvent naphtha (petroleum), light arom.	≥0.1- <9.5%
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	<4.5%
112-24-3	3,6-diazaoctanethylenediamin	≥2.5- <4.25%
108-67-8	mesitylene	≥2.5- ≤2.75%
25340-17-4	diethylbenzene	<1.3%
694-83-7	cyclohex-1,2-ylenediamine	≥0.1- <0.8%
98-82-8	cumene	≥0.25- ≤0.5%

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

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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.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **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:**

Immediately wash with water and soap and rinse thoroughly.

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:**

Immediately call a doctor.

Drink copious amounts of water and provide fresh air. Immediately call a doctor.

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:**

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **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:**

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).

Use neutralizing agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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 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.
- **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:**
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/m³, 25 ppmTLV Long-term value: 123 mg/m³, 25 ppm

112-24-3 3,6-diazaoctanethylenediamin

WEEL Long-term value: 6 mg/m³, 1 ppm
Skin

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

98-82-8 cumene

PEL Long-term value: 245 mg/m³, 50 ppm
SkinREL Long-term value: 245 mg/m³, 50 ppm
SkinTLV Long-term value: (246) NIC-0.5 mg/m³, (50) NIC-0.1 ppm
NIC-A3

- **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.

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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

· **Odor threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

Melting point/Melting range: Undetermined.
Boiling point/Boiling range: 153 °C (307.4 °F)

· **Flash point:** 60 °C (140 °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: 1.1 Vol %
Upper: 7 Vol %

· **Vapor pressure at 20 °C (68 °F):** 5 hPa (3.8 mm Hg)

· **Density:** Not determined.

· **Relative density** Not determined.

· **Vapor density** Not determined.

· **Evaporation rate** Not determined.

· **Solubility in / Miscibility with**

Water: Not miscible or difficult to mix.

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· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	23.8 %
Water:	0.0 %
· Solids content:	75.0 %
· Other information	No further relevant information available.
· Volatile Organic Compounds:	Contains less than 10 g/L

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:**

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

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

Oral	LD50	5,000 mg/kg (rat)
------	------	-------------------

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

Oral	LD50	>6,800 mg/kg (rat)
------	------	--------------------

Dermal	LD50	>3,400 mg/kg (rab)
--------	------	--------------------

Inhalative	LC50/4 h	>10.2 mg/l (rat)
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- **Primary irritant effect:**
- **on the skin:** May cause skin irritation.
- **on the eye:** Strong caustic effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**

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

Harmful

Corrosive

Irritant

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

Carcinogenic.

The product can cause inheritable damage.

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· **Carcinogenic categories**· **IARC (International Agency for Research on Cancer)**

1330-20-7	xylene	3
98-82-8	cumene	2B
100-41-4	ethylbenzene	2B
105-60-2	1,6-hexanolactam	3
71-43-2	benzene	1
108-88-3	toluene	3

· **NTP (National Toxicology Program)**

98-82-8	cumene	R
71-43-2	benzene	K

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

71-43-2	benzene	
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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:** Very toxic for fish· **Additional ecological information:**· **General notes:**

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

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Also poisonous for fish and plankton in water bodies.

Very 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.

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14 Transport information

<ul style="list-style-type: none"> · UN-Number · DOT, ADR, IMDG, IATA 	UN2924	
<ul style="list-style-type: none"> · UN proper shipping name · DOT · ADR · IMDG · IATA 	<p><i>Flammable liquids, corrosive, n.o.s. (4-nonylphenol, branched, Aromatic Solvent)</i></p> <p>2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (4-nonylphenol, branched, Aromatic Solvent), ENVIRONMENTALLY HAZARDOUS</p> <p><i>FLAMMABLE LIQUID, CORROSIVE, N.O.S. (4-nonylphenol, branched, Aromatic Solvent), MARINE POLLUTANT</i></p> <p>FLAMMABLE LIQUID, CORROSIVE, N.O.S. (4-nonylphenol, branched, Aromatic Solvent)</p>	
<ul style="list-style-type: none"> · Transport hazard class(es) · DOT 	<p><i>3 Flammable liquids</i></p> <p>3, 8</p>	
<div style="display: flex; align-items: center;">  </div> <ul style="list-style-type: none"> · Class · Label 	<p><i>3 Flammable liquids</i></p> <p>3, 8</p>	
<ul style="list-style-type: none"> · ADR 	<div style="display: flex; align-items: center;">  </div> <ul style="list-style-type: none"> · Class · Label 	<p><i>3 Flammable liquids</i></p> <p>3+8</p>
<ul style="list-style-type: none"> · IMDG 	<div style="display: flex; align-items: center;">  </div> <ul style="list-style-type: none"> · Class · Label 	<p><i>3 Flammable liquids</i></p> <p>3/8</p>
<ul style="list-style-type: none"> · IATA 	<div style="display: flex; align-items: center;">  </div> <ul style="list-style-type: none"> · Class · Label 	<p><i>3 Flammable liquids</i></p> <p>3 (8)</p>
<ul style="list-style-type: none"> · Packing group · DOT, ADR, IMDG, IATA 	<p>III</p>	
<ul style="list-style-type: none"> · Environmental hazards: 	<p><i>Product contains environmentally hazardous substances: 4-nonylphenol, branched</i></p>	

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· Marine pollutant:	Yes Symbol (fish and tree)
· Special marking (ADR):	Symbol (fish and tree)
· Special precautions for user	Warning: Flammable liquids
· Danger code (Kemler):	86
· EMS Number:	F-E,S-C
· 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).
· ADR	
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· U.S. Domestic Ground Shipments:	Same as listed for Standard Shipments above.
· U.S. Domestic Ground Non-Bulk (119 gal or less per container) Shipments:	Same as listed for Standard Shipments above.
· Emergency Response Guide (ERG) Number:	Not determine
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 2924 FLAMMABLE LIQUID, CORROSIVE, N.O.S. (4-NONYLPHENOL, BRANCHED, AROMATIC SOLVENT), 3 (8), III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

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

· Section 355 (extremely hazardous substances):

7664-41-7	ammonia, anhydrous
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· 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.

84852-15-3	4-nonylphenol, branched	≥25-<50%
95-63-6	1,2,4-trimethylbenzene	≥10-<11%
1330-20-7	xylene	<0.6%
98-82-8	cumene	≥0.25-≤0.5%
100-41-4	ethylbenzene	<0.1%
7664-41-7	ammonia, anhydrous	<0.1%
71-43-2	benzene	<0.1%

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108-88-3	toluene	<0.1%
· TSCA (Toxic Substances Control Act):		
84852-15-3	4-nonylphenol, branched	ACTIVE
9046-10-0	Polyoxypropylenediamine	ACTIVE
95-63-6	1,2,4-trimethylbenzene	ACTIVE
64742-95-6	Solvent naphtha (petroleum), light arom.	ACTIVE
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	ACTIVE
112-24-3	3,6-diazaoctanethylenediamin	ACTIVE
108-67-8	mesitylene	ACTIVE
143-23-7	1,6-Hexanediamine, N-(6-aminohexyl)-	ACTIVE
25340-17-4	diethylbenzene	ACTIVE
694-83-7	cyclohex-1,2-ylenediamine	ACTIVE
124-09-4	hexamethylenediamine	ACTIVE
1330-20-7	xylene	ACTIVE
98-82-8	cumene	ACTIVE
100-41-4	ethylbenzene	ACTIVE
15520-10-2	2-methylpentane-1,5-diamine	ACTIVE
7664-41-7	ammonia, anhydrous	ACTIVE
2432-74-8	6-aminohexanonitrile	ACTIVE
111-49-9	perhydroazepine	ACTIVE
105-60-2	1,6-hexanolactam	ACTIVE
71-43-2	benzene	ACTIVE
108-88-3	toluene	ACTIVE
7732-18-5	water, distilled, conductivity or of similar purity	ACTIVE

· Hazardous Air Pollutants

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

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

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

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· **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
105-60-2	1,6-hexanolactam	A5
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 GHS09

· **Signal word** *Danger*

· **Hazard-determining components of labeling:**

4-nonylphenol, branched
Solvent naphtha (petroleum), light arom.
3,6-diazaoctanethylenediamin
2,4,6-tris(dimethylaminomethyl)phenol
cyclohex-1,2-ylenediamine

· **Hazard statements**

Flammable liquid and vapor.
Harmful if swallowed.
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.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**

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.

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Immediately call a poison center/doctor.

Specific treatment (see on this label).

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 *03/03/2020 / 52*

· 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 & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4

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

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

Skin Sens. 1: Skin sensitisation – Category 1

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

Carc. 1B: Carcinogenicity – Category 1B

Repr. 2: Reproductive toxicity – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1