

Safety Data Sheet acc. to OSHA HCS

Printing date 08/24/2018


Reviewed on 08/24/2018

1 Identification

- **Product identifier**
 - **Trade name:** EP1121-4 B
 - **Recommended use:** Epoxy Hardener
 - **Restrictions on use:** For industrial use only
- **Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
ResinLab, LLC
N109 W13300 Ellsworth Drive
Germantown, WI 53022
1-877-259-1669
www.resinlab.com
 - **Information Department:** Product Safety Department: msds@resinlab.com
 - **Emergency Telephone Number:**
North America - Chemtrec: 1-800-424-9300 (24 hours)
International - Chemtrec: 01-703-527-3887 (24 hours)

2 Hazard(s) identification

- **Classification of the substance or mixture**
Skin Corr. 1B H314 Causes severe skin burns and eye damage.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Repr. 2 H361 Suspected of damaging fertility or the unborn child.
- **Label elements**
 - **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
 - **Hazard pictograms**


GHS05


GHS07


GHS08
 - **Signal word** Danger
 - **Hazard-determining components of labeling:**
4-Nonylphenol, branched
Mixture of Alicyclic aliphatic polyamine, alkyletheramine and alkylphenol.
Poly(oxypropylene)diamine
Diethylenetriamine
2,4,6-tris(dimethylaminomethyl)phenol
Bisphenol A
 - **Hazard statements**
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H361 Suspected of damaging fertility or the unborn child.
 - **Precautionary statements**
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dusts or mists.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves / eye protection / face protection.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
IF exposed or concerned: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Classification system:**
 - **NFPA System**
 - **NFPA ratings (scale 0 - 4)**



Health = 3
 Fire = 1
 Reactivity = 0
 - NFPA special hazards (water reactivity and oxidizing property): None
 - **HMIS System**
 - **HMIS-ratings (scale 0 - 4)**

HEALTH	*3
FIRE	1
REACTIVITY	0

Health = *3
 Fire = 1
 Reactivity = 0
- **Other hazards**
 - **Results of PBT and vPvB assessment**
 - PBT: Not applicable.

(Contd. on page 2)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/24/2018

Reviewed on 08/24/2018

Trade name: EP1121-4 B

· vPvB: Not applicable.

(Contd. of page 1)

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Dangerous components:**

CAS: 1344-28-1 EINECS: 215-691-6 RTECS: BD120000	Aluminum oxide	70-80%
	Mixture of Alicyclic aliphatic polyamine, alkyletheramine and alkylphenol. Acute Tox. 3, H331 Repr. 2, H361 Eye Dam. 1, H318 Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Skin Sens. 1, H317	10-20%
CAS: 84852-15-3 EINECS: 284-625-5 Index number: 601-053-00-8	4-Nonylphenol, branched Repr. 2, H361 Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Chronic 1, H410 Acute Tox. 4, H302	5-10%
CAS: 9046-10-0	Poly(oxypropylene)diamine Skin Corr. 1C, H314; Eye Dam. 1, H318 Aquatic Chronic 2, H411 Aquatic Acute 3, H402	≥3-<5%
CAS: 111-40-0 EINECS: 203-865-4 Index number: 612-058-00-X RTECS: IE 1225000	Diethylenetriamine Acute Tox. 1, H330 Skin Corr. 1B, H314 Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; STOT SE 3, H335	≥0.1-<1%
CAS: 90-72-2 EINECS: 202-013-9 Index number: 603-069-00-0	2,4,6-tris(dimethylaminomethyl)phenol Skin Corr. 1B, H314; Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 3, H402; Aquatic Chronic 3, H412	≥0.1-<1%
CAS: 80-05-7 EINECS: 201-245-8 Index number: 604-030-00-0 RTECS: SL 6300000	Bisphenol A Repr. 2, H361 Eye Dam. 1, H318 Skin Sens. 1, H317; STOT SE 3, H335	≥0.1-<1%
CAS: 112-57-2 EINECS: 203-986-2 Index number: 612-060-00-0 RTECS: KH8585000	Tetraethylenepentamine Skin Corr. 1B, H314 Aquatic Chronic 2, H411 Acute Tox. 4, H312	0-0.1%
CAS: 108-95-2 EINECS: 203-632-7 Index number: 604-001-00-2 RTECS: SJ 3325000	Phenol Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 Muta. 2, H341; STOT RE 2, H373 Skin Corr. 1B, H314	0-0.1%
CAS: 8052-41-3 EINECS: 232-489-3 Index number: 649-345-00-4 RTECS: WJ 8925000	Stoddard solvent Flam. Liq. 3, H226 Asp. Tox. 1, H304	0-0.1%

· **Additional information:**

If the chemical name/CAS number is proprietary and or weight percentage is listed as a range, the specific chemical identity and or percentage of composition has been withheld as a trade secret.

4 First-aid measures

· **Description of first aid measures**

· **General information:**

Keep warm, position comfortably and cover well.
Immediately remove any clothing soiled by the product.

· **After inhalation:**

Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing.
Supply fresh air and if symptoms occur 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.
Remove all contaminated clothing and wash before reuse.
If skin rash or irritation occurs, seek medical advice.

· **After eye contact:**

Immediately flush opened eyes with water for 5 minutes, then remove contact lenses if present, continue flushing for at least another 15 minutes.

Get medical attention.

· **After swallowing:**

If victim is unconscious; never give anything by mouth.
If victim is conscious rinse mouth and give small amounts of water.
Seek immediate medical advice.

· **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**

Check section 11 Toxicological Information for further relevant information.

US
(Contd. on page 3)

Safety Data Sheet acc. to OSHA HCS

Printing date 08/24/2018

Reviewed on 08/24/2018

Trade name: EP1121-4 B

(Contd. of page 2)

5 Fire-fighting measures

- **Extinguishing media**
 - **Suitable extinguishing agents:**
 - Alcohol resistant foam
 - dry chemical
 - Fire-extinguishing powder
 - Carbon dioxide
 - water fog
- **Special hazards arising from the substance or mixture**
 - Will not burn unless preheated.
 - In case of fire, the following can be released:
 - Nitrogen oxides (NO_x)
 - During heating or in case of fire poisonous gases are produced.
 - Carbon dioxide (CO₂) and Carbon monoxide (CO)
 - Aluminum oxide (Al₂O₃) dust, a serious respiratory irritant, may be formed during fires.
- **Advice for firefighters**
 - **Protective equipment:**
 - Mouth respiratory protective device.
 - If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA fire brigades standard (29 CFR 1910.156).
 - As with any fire, wear positive-pressure self-contained breathing apparatus and full protective gear that are NIOSH approved.
- **Additional information**
 - Aluminum reacts exothermically with water, acids and alkalis to produce hydrogen gas. Close containers may rupture when exposed to heat.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
 - Wear protective clothing.
 - Mount respiratory protective device.
 - Wear protective equipment. Keep unprotected persons away.
 - Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use.
- **Environmental precautions:** Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**
 - For large spills: provide diking or containment to minimize spreading. If possible pump and store material in appropriate container.
 - For small spills: Ventilate and wash area. Collect spills and absorbant material in appropriate container.
 - Ensure adequate ventilation.
 - Absorb spills with inert materials like sand and or vermiculite.
 - Non sparking tools should be used.
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Use neutralizing agent if necessary.
 - Dispose contaminated material as waste according to item 13.

7 Handling and storage

- **Handling:**
 - **Precautions for safe handling**
 - Ensure good ventilation/exhaustion at the workplace.
 - Prevent formation of aerosols.
 - Keep away from incompatible material(s).
 - Avoid any release into the environment.
 - Do not breathe dust/fumes/mist/vapor/spray.
 - Avoid contact with eyes, skin and clothing.
 - Keep away from heat, sparks, flames and ignition sources.
 - Observe all the personal protection requirements in Section 8.
- **Conditions for safe storage, including any incompatibilities**
 - **Storage:**
 - **Requirements to be met by storerooms and receptacles:**
 - Provide ventilation for receptacles.
 - Keep stored in accordance with local, regional, national, and international regulations.

8 Exposure controls/personal protection

- **Control parameters**

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

1344-28-1 Aluminum oxide	
ACGIH	Long-term value: 1 mg/m ³ respirable fraction as Aluminum
OSHA	Long-term value: 15 TWA total dust mg/m ³
84852-15-3 4-Nonylphenol, branched	
TEEL-1	Short-term value: 20 mg/m ³
TEEL-2	Short-term value: 125 mg/m ³
TEEL-3	Short-term value: 500 mg/m ³
111-40-0 Diethylenetriamine	
REL	Long-term value: 4 mg/m ³ , 1 ppm Skin

(Contd. on page 4)

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/24/2018

Reviewed on 08/24/2018

Trade name: EP1121-4 B

TLV	Long-term value: 4.2 mg/m ³ , 1 ppm Skin	(Contd. of page 3)
112-57-2 Tetraethylenepentamine		
WEEL	Long-term value: 5 mg/m ³ Skin, DSEN	
108-95-2 Phenol		
PEL	Long-term value: 19 mg/m ³ , 5 ppm Skin	
REL	Long-term value: 19 mg/m ³ , 5 ppm Ceiling limit value: 60* mg/m ³ , 15.6* ppm *15-min; Skin	
TLV	Long-term value: 19 mg/m ³ , 5 ppm Skin; BEI	
8052-41-3 Stoddard solvent		
PEL	Long-term value: 2900 mg/m ³ , 500 ppm	
REL	Long-term value: 350 mg/m ³ Ceiling limit value: 1800* mg/m ³ *15-min	
TLV	Long-term value: 525 mg/m ³ , 100 ppm	

· **Additional Occupational Exposure Limit Values for possible hazards during processing:** None.

· **Exposure controls**

If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

If exposure limits have not been established, maintain airborne levels to an acceptable level.

· **Personal protective equipment:**

· **General protective and hygienic measures:**

Pregnant women should strictly avoid inhalation or skin contact.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· **Personal Protective Equipment (PPE)**

· **Breathing equipment:**

Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits.

Use a NIOSH approved air-purifying organic vapor respirator if occupational limits are exceeded. For emergency situations, confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air supplied respirator. Observe OSHA regulations (29CFR 1910.134) for respirator use.

· **Protection of hands:**

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**



Chemical resistant gloves

· **Eye protection:**



Safety Glasses with side shields

· **Body protection:** Appropriate chemical resistant clothing.

· **Limitation and supervision of exposure into the environment**

The Engineering measures or controls, and PPE recommendations are only guidelines and may not apply to every situation. For additional information, please consult the corresponding requirements under OSHA 29 CFR 1910.94-95, and 29 CFR 1910.132-138.

9 Physical and chemical properties

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

· **General Information**

· **Appearance:**

· **Form:**

Pasty

· **Color:**

White

· **Odor:**

Amine-like

· **Odor threshold:**

Not determined.

· **pH-value:**

Not determined.

· **Change in condition**

· **Melting point/Melting range:**

Undetermined.

· **Boiling point/Boiling range:**

Undetermined.

· **Flash point:**

>93 °C (>199.4 °F)

· **Flammability (solid, gaseous):**

Not applicable.

· **Ignition temperature:**

Not determined.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/24/2018

Reviewed on 08/24/2018

Trade name: EP1121-4 B

(Contd. of page 4)

· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Vapor pressure:	Not determined.
· Vapor Density:	not determined
· Density at 20 °C (68 °F):	2.08 g/cm ³ (17.36 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):	400,000 mPas
· Kinematic:	Not available.
· VOC content:	0.02 % 0.4 g/l / 0.00 lb/gal

10 Stability and reactivity

- **Reactivity** Not a regulated physical hazard under GHS.
- **Hazardous Reactivity and Chemical Stability** Stable under normal conditions of use, storage and temperatures.
- **Thermal decomposition / conditions to be avoided:**
To avoid thermal decomposition do not overheat.
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** In contact with incompatible materials.
- **Conditions to avoid** Keep away from heat, sparks, flame and any other ignition sources.
- **Incompatible materials:**
Oxidizing agents
Strong reducing agents
Acids
Ethylene oxide
chlorine trifluoride
- **Hazardous decomposition products:**
Possible in traces.
Refer to section 5.

11 Toxicological information

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

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

1344-28-1 Aluminum oxide

Oral	LD50	>5,000 mg/kg (rat) (OECD TG 401)
Dermal	LD50	mg/kg (Test species: n/a) (Toxicity not expected based on acute oral data)
Inhalative	LC50/4 h	7.6 mg/l (read across from 101-68-8) (not given)

Mixture of Alicyclic aliphatic polyamine, alkyletheramine and alkylphenol.

Oral	LD50	>2,000 mg/kg (read across from 101-68-8) Alkylphenol 1,100 mg/kg (rat) Alkyletheramine
Dermal	LD50	2,290 mg/kg (Test species: n/a) (Rabbit) Alkylphenol 1,550 mg/kg (rabbit) Alkyletheramine
Inhalative	LC50/4 h	>5 mg/l (read across from 101-68-8) Alkylphenol

84852-15-3 4-Nonylphenol, branched

Oral	LD50	1,604 mg/kg (rat) Reference: Vendor SDS (2015)
Dermal	LD50	2,031 mg/kg (rabbit) Vendor SDS 2015
Inhalative	LC50/4 h	mg/l (mouse) (Non-toxic; LC50 exceeded the saturated vapor value)

9046-10-0 Poly(oxypropylene)diamine

Oral	LD50	2,885 mg/kg (rat) (similar to OECD guideline 401) Reference: Vendor SDS (2015).
Dermal	LD50	2,980 mg/kg (rabbit) (similar to OECD guideline 402) Reference: Vendor SDS (2015).
Inhalative	LC50/4 h	mg/l (read across from 101-68-8) (Exposure Time 8h)

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/24/2018

Reviewed on 08/24/2018

Trade name: EP1121-4 B

(Contd. of page 5)

112945-52-5 silicon dioxide amorphous

Oral LD50 >5,000 mg/kg (rat) (OECD TG 401 A)

Dermal LD50 >2,000 mg/kg (rabbit)

- **Primary irritant effect:**
 - **on the skin:** Caustic effect on skin and mucous membranes.
 - **on the eye:** Strong caustic effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Experience with humans:** Not applicable.
- **Additional toxicological information:**

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

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

112945-52-5 silicon dioxide amorphous	3
108-95-2 Phenol	3

· **NTP (National Toxicology Program)**

None of the ingredients is listed.

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

None of the ingredients is listed.

12 Ecological information

- **Persistence and degradability** No further relevant information available.
 - **Other information:** The product is easily biodegradable.
- **Behavior in environmental systems:**
 - **Bioaccumulative potential** No data available.
 - **Mobility in soil** No further relevant information available.
- **Additional ecological information:** The product is non-rapidly degradable, and low or not highly bioaccumulative.
 - **General notes:**

Water hazard class 3 (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
 - **PBT:** None of the ingredients is listed.
 - **vPvB:** None of the ingredients is listed.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**· **RCRA Waste:**

111-40-0 Diethylenetriamine	D002	≥0.1-<1%
108-95-2 Phenol	U188	0-0.1%

· **Recommendation:**

Must be specially treated adhering to official regulations.
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**· **Recommendation:** Dispose of according to your local waste regulations.

14 Transport information

· **UN-Number**

- DOT
- IMDG, IATA

Not regulated in packages less than 5L.
UN3082

· **UN proper shipping name**

- DOT
- IMDG

not regulated
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (4-Nonylphenol, branched, 2,4,6-tris(dimethylamino-
methyl)phenol), MARINE POLLUTANT
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
N.O.S. (4-Nonylphenol, branched)

· IATA

(Contd. on page 7)

US

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/24/2018

Reviewed on 08/24/2018

Trade name: EP1121-4 B

(Contd. of page 6)

Transport hazard class(es)
DOT
Class

Not regulated in packages less than 5L.

IMDG, IATA

Class
Label
9 Miscellaneous dangerous substances and articles
9
Packing group
DOT
IMDG, IATA
Not regulated in packages less than 5L.
III
Environmental hazards:

Product contains environmentally hazardous substances: 4-Nonylphenol, branched

Special precautions for user

- **Danger code (Kemler):**
- **EMS Number:**
- **Segregation groups**
- **Stowage Category**

Warning: Miscellaneous dangerous substances and articles
90
F-A, S-F
Alkalis
A
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Transport/Additional information:
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 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (4-NONYLPHENOL, BRANCHED), 9, III

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
SARA Section 355 (extremely hazardous substances):

108-95-2 Phenol

SARA Section 313 (Specific toxic chemical listings):

84852-15-3	4-Nonylphenol, branched	5-10%
80-05-7	Bisphenol A	≥0.1-<1%
108-95-2	Phenol	0-0.1%

Section 311/312 (Hazardous Chemical Inventory reporting)
SARA Section 311/312 (Hazardous Chemical Inventory Reporting)

	Mixture of Alicyclic aliphatic polyamine, alkyletheramine and alkylphenol.	A	10-20%
84852-15-3	4-Nonylphenol, branched	A	5-10%
9046-10-0	Poly(oxypropylene)diamine	A	>3-<5%
111-40-0	Diethylenetriamine	A, C	≥0.1-<1%
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	A	≥0.1-<1%
80-05-7	Bisphenol A	A, C	≥0.1-<1%
112-57-2	Tetraethylenepentamine	A	0-0.1%
108-95-2	Phenol	A, C, F	0-0.1%

Hazard Abbreviations for SARA 311/312

- A - Acute Health Hazard
- C - Chronic Health Hazard
- F - Fire Hazard
- R - Reactive Hazard
- S - Sudden Release of Pressure Hazard

TSCA 8 (b) Inventory:

	Mixture of Alicyclic aliphatic polyamine, alkyletheramine and alkylphenol.
84852-15-3	4-Nonylphenol, branched
9046-10-0	Poly(oxypropylene)diamine
111-40-0	Diethylenetriamine
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol
80-05-7	Bisphenol A
112-57-2	Tetraethylenepentamine
108-95-2	Phenol
8052-41-3	Stoddard solvent

TSCA new (21st Century Act)

84852-15-3 4-Nonylphenol, branched ACTIVE/EXEMPT

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/24/2018

Reviewed on 08/24/2018

Trade name: EP1121-4 B

		(Contd. of page 7)
9046-10-0	Poly(oxypropylene)diamine	ACTIVE/EXEMPT
111-40-0	Diethylenetriamine	ACTIVE/EXEMPT
90-72-2	2,4,6-tris(dimethylaminomethyl)phenol	ACTIVE/EXEMPT
80-05-7	Bisphenol A	ACTIVE/EXEMPT
112-57-2	Tetraethylenepentamine	ACTIVE/EXEMPT
108-95-2	Phenol	ACTIVE/EXEMPT
8052-41-3	Stoddard solvent	ACTIVE/EXEMPT

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

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

80-05-7 Bisphenol A

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

None of the ingredients is listed.

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

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

108-95-2 Phenol D, I

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

108-95-2 Phenol A4

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

None of the ingredients is listed.

· **International Regulation Lists**

· **GHS label elements** GHS label elements

· **REACH - Substances of Very High Concern (SVHC) List:**

84852-15-3 4-Nonylphenol, branched 5-10%

80-05-7 Bisphenol A ≥0.1-<1%

· **Restriction of Hazardous Substances Directive (RoHS) list:**

None of the ingredients is listed.

· **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 (M)SDS:** Product Development Department

· **Contact:** msds@resinlab.com

· **Date of preparation / last revision** 08/24/2018 / 4

· * **Data compared to the previous version altered.**