

# Safety Data Sheet acc. to OSHA HCS

Printing date 10/31/2017

Reviewed on 10/31/2017

## 1 Identification

- **Product identifier**
  - **Trade name:** EP965LVLX Black 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**
  - Acute Tox. 4 H302 Harmful if swallowed.
  - Acute Tox. 4 H312 Harmful in contact with skin.
  - 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.
  - STOT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.

- **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
  - N-(2-Aminoethyl)piperazine
  - Benzyl alcohol
  - Bisphenol A
  - Isophorone diamine
- **Hazard statements**
  - H302+H312 Harmful if swallowed or in contact with skin.
  - H314 Causes severe skin burns and eye damage.
  - H317 May cause an allergic skin reaction.
  - H361 Suspected of damaging fertility or the unborn child.
  - H372 Causes damage to organs through prolonged or repeated exposure.
- **Precautionary statements**
  - Obtain special instructions before use.
  - Do not handle until all safety precautions have been read and understood.
  - Do not breathe dust/fume/gas/mist/vapors/spray.
  - Wash thoroughly after handling.
  - Do not eat, drink or smoke when using this product.
  - Contaminated work clothing must not be allowed out of the workplace.
  - Wear protective gloves/protective clothing/eye protection/face protection.
  - If swallowed: Call a poison center/doctor if you feel unwell.
  - 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.
  - Get medical advice/attention if you feel unwell.
  - 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

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## · 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.
- vPvB: Not applicable.

## 3 Composition/information on ingredients

### · Chemical characterization: Mixtures

#### · Dangerous components:

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	40-50%
CAS: 140-31-8 EINECS: 205-411-0 Index number: 612-105-00-4 RTECS: TK 8050000	N-(2-Aminoethyl)piperazine Acute Tox. 3, H311 Repr. 2, H361; STOT RE 1, H372 Skin Corr. 1B, H314 Acute Tox. 4, H302; Skin Sens. 1, H317 Aquatic Chronic 3, H412	10-20%
CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5 RTECS: DN 3150000	Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332	10-20%
CAS: 2855-13-2 EINECS: 220-666-8 Index number: 612-067-00-9	Isophorone diamine Acute Tox. 3, H331 Skin Corr. 1B, H314 Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317 Aquatic Chronic 3, H412	5-10%
	Amine Epoxy Resin Adduct - Proprietary CAS number withheld as permitted by 29CFR1910.1200(i) STOT RE 1, H372 STOT SE 3, H335	5-10%
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	≥2.5-≤3%
CAS: 103-83-3 EINECS: 203-149-1 Index number: 612-074-00-7 RTECS: DP 4500000	Benzyltrimethylamine Flam. Liq. 3, H226 Acute Tox. 3, H301 Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Chronic 2, H411 Acute Tox. 4, H312; Acute Tox. 4, H332	≥0.25-≤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:

 Immediately remove any clothing contaminated with the product.  
 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:

Flush skin thoroughly. Remove all contaminated clothing and shoes. Continue to rinse skin for 15 minutes. Obtain medical attention if symptoms develop. Wash all contaminated clothing and shoes before reuse.

#### · 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.  
 Do not put any ointments, oils or medication in eyes without specific instructions.  
 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.  
 Do NOT induce vomiting.  
 Immediately call a doctor.

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If vomiting occurs spontaneously, keep victim's head below hips to prevent aspiration of liquid into lungs.

- **After Exposure** Move to fresh air at once.
  - **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**
- If swallowed or in case of vomiting, danger of entering the lungs.  
Check section 11 Toxicological Information for further relevant information.

### 5 Fire-fighting measures

- **Extinguishing media**
  - **Suitable extinguishing agents:**
    - Use fire fighting measures that suit the environment.
    - Alcohol resistant foam
    - Carbon dioxide
    - Fire-extinguishing powder
    - water fog
    - Water spray
- **Special hazards arising from the substance or mixture**
  - Will not burn unless preheated.
  - In case of fire, the following can be released:
    - Various hydrocarbons
    - Nitrogen oxides (NO<sub>x</sub>)
    - Carbon dioxide (CO<sub>2</sub>) and Carbon monoxide (CO)
- **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.

### 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.
  - Do not allow to enter sewers/ surface or ground water.
- **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.
  - 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.
    - Open and handle receptacle with care.
    - Prevent formation of aerosols.
    - Keep away from incompatible material(s).
    - Avoid any release into the environment.
    - For industrial or professional use only
    - 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:**

**84852-15-3 4-Nonylphenol, branched**

TEEL-1 Short-term value: 20 mg/m<sup>3</sup>

TEEL-2 Short-term value: 125 mg/m<sup>3</sup>

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TEEL-3	Short-term value: 500 mg/m <sup>3</sup>
<b>140-31-8 N-(2-Aminoethyl)piperazine</b>	
TEEL-1	Short-term value: 7.5 mg/m <sup>3</sup>
TEEL-2	Short-term value: 50.0 mg/m <sup>3</sup>
TEEL-3	Short-term value: 500 mg/m <sup>3</sup>
<b>100-51-6 Benzyl alcohol</b>	
TEEL-1	Short-term value: 260 mg/m <sup>3</sup> , 60.0 ppm
TEEL-2	Short-term value: 660 mg/m <sup>3</sup> , 150.0 ppm
TEEL-3	Short-term value: 660 mg/m <sup>3</sup> , 150.0 ppm
WEEL	Long-term value: 10 ppm
<b>103-83-3 Benzyldimethylamine</b>	
TEEL-1	Short-term value: 3.0 mg/m <sup>3</sup>
TEEL-2	Short-term value: 20.0 mg/m <sup>3</sup>
TEEL-3	Short-term value: 200.0 mg/m <sup>3</sup>

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:

Be sure to clean skin thoroughly after work and before breaks.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Avoid contact with the eyes and skin.

Pregnant women should avoid direct skin contact with this product.

#### 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:

Liquid

##### Color:

Amber colored

##### 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: &gt;93 °C (&gt;199.4 °F)

Flammability (solid, gaseous): Not applicable.

Ignition temperature: Not determined.

Decomposition temperature: Not determined.

Auto igniting: Product is not selfigniting.

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· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Vapor pressure:</b>	Not determined.
· <b>Vapor Density:</b>	not determined
· <b>Density at 20 °C (68 °F):</b>	1.00 g/cm <sup>3</sup> (8.35 lbs/gal)
· <b>Relative density</b>	Not determined.
· <b>Vapor density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
· <b>Water:</b>	Partly miscible.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	Not available.
· <b>Kinematic:</b>	Not available.
· <b>VOC content:</b>	16.11 % 157.9 g/l / 1.32 lb/gl

## 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:**  
chlorinated hydrocarbons  
Sodium hypochlorite, Nitrous acid and other nitrosating agents  
Oxidizing agents  
Strong bases  
Strong reducing agents  
Acids  
Zinc and Galvanized Surfaces  
Copper and copper alloys
- **Hazardous decomposition products:** Possible in traces.
- **Additional information:**  
As long as the prescribed application concentrations are maintained there is no danger that stable emulsions will form.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**  
Harmful if swallowed.

<b>84852-15-3 4-Nonylphenol, branched</b>		
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)
<b>140-31-8 N-(2-Aminoethyl)piperazine</b>		
Oral	LD50	2,140 mg/kg (rat)
Dermal	LD50	866 mg/kg (rabbit)
Inhalative	LC50/4 h	mg/l (rat) (No mortality observed at saturated atmosphere)
<b>100-51-6 Benzyl alcohol</b>		
Oral	LD50	1,580 mg/kg (mouse)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>5,000 mg/l (rat)
<b>2855-13-2 Isophorone diamine</b>		
Oral	LD50	1,030 mg/kg (rat) (males)
Dermal	LD50	mg/kg (guinea pig) (OECD TG 406; epicutaneous and occlusive) 1,840 mg/kg (rabbit) (Estimated from 2.0 ml/kg)
Inhalative	Corrosion Irritation	(rabbit) (OECD TG 405; 0.1 mL neat substance)
	LC50/4 h	>5.01 mg/l (rat) (No relevant information available of LC50) OECD Guideline 403
<b>80-05-7 Bisphenol A</b>		
Oral	LD50	3,300 mg/kg (Rats and Mice) Reference: IUCLID Dataset (2000) and ECHA (2011).

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Trade name: EP965LVLX Black B

Dermal	LD50	3,000 mg/kg (rabbit) (3 out of 15 treated rabbits died at 2000 mg/kg) Reference: IUCLID Dataset (2000).
Inhalative	LC50/4 h	mg/l (rat) (LC0 > 0.17 mg/l: no death occurred) Reference: ECHA (2011).

(Contd. of page 5)

- **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.
- **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 categories

### • IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

### • 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

### • Toxicity

#### • Aquatic toxicity:

##### 84852-15-3 4-Nonylphenol, branched

 EC50 mg/kg (rabbit) (Directive 84/449/EEC B4; Post-exposure: 8 days)  
 All tested animals showed signs of erythema, edema, and eschar which were not fully reversible within 8 days. Reference: IUCLID Dataset (2000).

##### 140-31-8 N-(2-Aminoethyl)piperazine

EC50 mg/kg (rabbit) (US DOT Corrosivity Assay)

##### 100-51-6 Benzyl alcohol

EC50 mg/kg (rabbit) (slightly irritating)

##### 2855-13-2 Isophorone diamine

EC50 mg/kg (rabbit) (FDA Guideline and Draize test)

##### 80-05-7 Bisphenol A

 EC50 mg/kg (rabbit)  
 The substance was not classified as irritating to skin. Reference: ECHA (2011).

- **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-rapid 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 of drinking water if even extremely small quantities leak into the ground.  
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
- **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:

103-83-3 Benzyldimethylamine D001, D002 ≥0.25-≤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

UN3267

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· <b>UN proper shipping name</b> · DOT · IMDG · IATA	Corrosive liquid, basic, organic, n.o.s. (Modified Aliphatic Amines, 4-Nonylphenol, branched) CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Modified Aliphatic Amines, 4-Nonylphenol, branched), MARINE POLLUTANT CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Modified Aliphatic Amines, 4-Nonylphenol, branched)
· <b>Transport hazard class(es)</b> · DOT   · Class · Label · IMDG   · Class · Label · IATA  · Class · Label	8 Corrosive substances 8 8 Corrosive substances 8 8 Corrosive substances 8
· <b>Packing group</b> · DOT, IMDG, IATA	II
· <b>Environmental hazards:</b>	Product contains environmentally hazardous substances: 4-Nonylphenol, branched
· <b>Special precautions for user</b> · Danger code (Kemler): · EMS Number: · Segregation groups · Stowage Category · Stowage Code · Segregation Code	Warning: Corrosive substances 80 F-A, S-B Alkalies B SW2 Clear of living quarters. SG35 Stow "separated from" acids.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b> · DOT · Quantity limitations · Remarks: · IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	On passenger aircraft/rail: 1 L On cargo aircraft only: 30 L Special marking with the symbol (fish and tree). 1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (MODIFIED ALIPHATIC AMINES, 4-NONYLPHENOL, BRANCHED), 8, II, 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 ingredients is listed.

· SARA Section 313 (Specific toxic chemical listings):

84852-15-3	4-Nonylphenol, branched	40-50%
80-05-7	Bisphenol A	≥2.5-≤3%

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

84852-15-3	4-Nonylphenol, branched	A	40-50%
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**Trade name: EP965LVX Black B**

140-31-8	N-(2-Aminoethyl)piperazine	(Contd. of page 7)
2855-13-2	Isophorone diamine	A, C 10-20%
80-05-7	Bisphenol A	A, C 5-10%
		A, C ≥2.5-≤3%

**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 (Toxic Substances Control Act):**

84852-15-3	4-Nonylphenol, branched
140-31-8	N-(2-Aminoethyl)piperazine
100-51-6	Benzyl alcohol
2855-13-2	Isophorone diamine
80-05-7	Bisphenol A
103-83-3	Benzyl dimethylamine

**TSCA new (21st Century Act) (Substances not listed)**

Amine Epoxy Resin Adduct - Proprietary CAS number withheld as permitted by 29CFR1910.1200(i).

**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)**

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

**International Regulation Lists**
**Chinese Chemical Inventory of Existing Chemical Substances:**

84852-15-3	4-Nonylphenol, branched
140-31-8	N-(2-Aminoethyl)piperazine
100-51-6	Benzyl alcohol
2855-13-2	Isophorone diamine
80-05-7	Bisphenol A
103-83-3	Benzyl dimethylamine

**GHS label elements** GHS label elements

**National regulations:**
**Japanese Existing and New Chemical Substance List:**

84852-15-3	4-Nonylphenol, branched
140-31-8	N-(2-Aminoethyl)piperazine
100-51-6	Benzyl alcohol
2855-13-2	Isophorone diamine
80-05-7	Bisphenol A
103-83-3	Benzyl dimethylamine

**Korean Existing Chemical Inventory:**

84852-15-3	4-Nonylphenol, branched
140-31-8	N-(2-Aminoethyl)piperazine
100-51-6	Benzyl alcohol
2855-13-2	Isophorone diamine
80-05-7	Bisphenol A
103-83-3	Benzyl dimethylamine

**European Pre-registered substances:**

84852-15-3	4-Nonylphenol, branched
140-31-8	N-(2-Aminoethyl)piperazine
100-51-6	Benzyl alcohol
2855-13-2	Isophorone diamine
80-05-7	Bisphenol A
103-83-3	Benzyl dimethylamine

**EINECS List:**

84852-15-3	4-Nonylphenol, branched
140-31-8	N-(2-Aminoethyl)piperazine

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100-51-6	Benzyl alcohol	
2855-13-2	Isophorone diamine	
80-05-7	Bisphenol A	
103-83-3	Benzyltrimethylamine	
· <b>ELINCS List:</b>		
None of the ingredients is listed.		
· <b>REACH - Substances of Very High Concern (SVHC) List:</b>		
84852-15-3	4-Nonylphenol, branched	40-50%
80-05-7	Bisphenol A	≥2.5-≤3%
· <b>Restriction of Hazardous Substances Directive (RoHS) list:</b>		
None of the ingredients is listed.		
· <b>Chemical safety assessment:</b> 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** 10/31/2017 / 8
  - **\* Data compared to the previous version altered.**

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