Safety Data Sheet
acc. to OSHA HCS

Print Date 03/14/2017 Revision Date 03/14/2017

· **Product Identifier**
· **Trade Name: EP1121 Black B**
· **Application of the Substance or Mixture:** Epoxy Hardener

· **Details of the Supplier of the Safety Data Sheet (SDS)**
· **Manufacturer or Supplier:**
Resinlab, LLC
N109 W13300 Ellsworth Drive,
Germantown, WI 53022
1-800-388-8605
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)

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2 Hazard(s) identification

· **Hazard Classification**

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 SE 1	H370	Causes damage to the eyes.
STOT RE 1	H372	Causes damage to the lung through prolonged or repeated exposure.

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

GHS05 GHS07 GHS08

· **Signal Word** Danger

· **Hazard-determining Component(s)**
Mixture of Alicyclic aliphatic polyamine, alkyletheramine and alkylphenol.
4-Nonylphenol, branched
Diethylenetriamine
Poly(oxypropylene)diamine
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.
H370 Causes damage to the eyes.
H372 Causes damage to the lung through prolonged or repeated exposure.

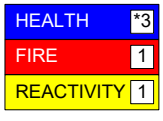
· **Precautionary statements**
Do not breathe dusts or mists.
Wear protective gloves/protective clothing/eye protection/face protection.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not eat, drink or smoke when using this product.
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.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Wash contaminated clothing before reuse.
IF exposed or concerned: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If swallowed: Rinse mouth. Do NOT induce vomiting.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Hazard Rating System**
· **NFPA System**
· **NFPA Ratings (scale 0 - 4)**

Health = 3
Fire = 1
Reactivity = 1

NFPA special hazards (water reactivity and oxidizing property): None

· **HMIS System**
· **HMIS Ratings (scale 0 - 4)**



Health = *3
Fire = 1
Reactivity = 1

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.

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· ***vPvB:*** *Not applicable.*

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3 Composition/information on ingredients

· ***Chemical Characterization: Mixtures***

· ***Composition/Information on Ingredients***		
	Mixture of Alicyclic aliphatic polyamine, alkyletheramine and alkylphenol. *Repr. 2, H361; STOT SE 1, H370; STOT RE 1, H372* *Eye Dam. 1, H318* *Skin Irrit. 2, H315; Skin Sens. 1, H317*	*50-60%*
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*	*25-30%*
CAS: 9046-10-0	*Poly(oxypropylene)diamine* *Skin Corr. 1C, H314; Eye Dam. 1, H318* *Aquatic Chronic 2, H411* *Aquatic Acute 3, H402*	*10-20%*
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*	*1-2.5%*
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*	*0.1-<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.

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4 First-aid measures

· ***Description of First Aid Measures***

· ***General Information***
Symptoms may be delayed several hours after exposure; victims should be medically observed for at least 48 hours after exposure.
Ensure medical personnel are aware of exposure and take precautions for their personal protection; see Section 8 for the information of personal protection.

· ***After Inhalation***
Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing.
In case of unconsciousness place patient stably in side position for transportation.
Get medical attention

· ***After Skin Contact***
Immediately remove all contaminated clothing and put them in a tightly sealed bag.
Immediately wash contaminated skin with water and soap and rinse them thoroughly.
Get medical attention

· ***After Eye Contact***
Immediately rinse opened eyes for at least 15 minutes under running water.
Immediately remove contact lenses if present. Continue rinsing.
Do not put any ointments, oils or medication in eyes without specific instructions.
Seek medical advice.

· ***After Swallowing***
If victim is unconscious; never give anything by mouth.
If victim is conscious; rinse out mouth and give victim small amounts of water.
Do NOT induce vomiting.
If vomiting occurs spontaneously, keep victim's head below hips to prevent aspiration of liquid into lungs.
Seek immediate medical advice.

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5 Fire-fighting measures

· **Extinguishing Media**
· **Suitable Extinguishing Agent(s)**
Use fire fighting measures and extinguishing agents that suit the environment.
In case of fire, suitable extinguishing agents are:
Alcohol resistant foam.
Dry chemical or fire-extinguishing powder.
Carbon dioxide (CO_2).
Water spray or water fog.
· **Unsuitable Extinguishing Agent(s)** Water with full jet

· **Firefighting Procedures**
Solid stream of water may spread fire; use water spray or water fog.
Cool all affected containers with flooding quantities of water.
Runoff from fire control or dilution water may be corrosive and/or toxic; protect personnel and minimize property damage.
Contain fire water runoff if possible to prevent environmental pollution.

· **Special Hazards Arising in Fire**
Will not burn unless preheated.
In case of fire, following can be released:
Aldehydes and ketones.
Carbon dioxide (CO_2) and Carbon monoxide (CO)
Nitrogen oxides

· **Advice for Firefighters**
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.

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6 Accidental release measures

· **Personal Precautions**
Do not touch damaged containers or spills unless wearing appropriate protective equipment.
Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use.
Ensure personnel take precautions for their personal protection during clean up; see Section 8 for the specific requirements.

· **Environmental Precautions**
Keep away from sewage system or other water courses; do not penetrate ground/soil.
Inform respective authorities in case of any seepage to the environment.

· **Cleaning Up Methods**
Ensure adequate ventilation.
Eliminate all ignition sources.
Keep unauthorized personnel away.
Allow molten product to cool.
Absorb residues with liquid-binding materials.
Ventilate and wash area after clean-up is complete.
Collect spills in suitable and properly labeled containers.
Do not use solvents unless following safe handling practices and within the recommended exposure guidelines.
Dispose contaminated chemicals as waste according to Section 13.

· **Additional Information** No further relevant information.

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7 Handling and storage

· **Handling**
· **Precautions for Safe Handling**
Avoid breathing vapor.
Ensure good ventilation and/or exhaustion at workplace.
Keep away from incompatible material(s).
Avoid any release into the environment.
Observe all the personal protection requirements in Section 8.
· **Information about Protection Against Explosions and Fires**
Keep away from heat, sparks, open flame and other ignition sources during handling.

· **Storage**
· **Requirements to be Met by Storerooms and Receptacles**
Store in a well-ventilated place; provide ventilation for receptacles.
Keep stored in accordance with local, regional, national, and international regulations.

· **Additional Information** No further relevant information.

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8 Exposure controls/personal protection

· **Engineering Measures or Controls**

· **Exposure Limit Values that Require Monitoring at the Workplace**	
84852-15-3 4-Nonylphenol, branched	
TEEL-1	Short-term value: 20 mg/m³
TEEL-2	Short-term value: 125 mg/m³
TEEL-3	Short-term value: 500 mg/m³

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111-40-0 Diethylenetriamine	
REL	Long-term value: 4 mg/m³, 1 ppm Skin
TLV	Long-term value: 4.2 mg/m³, 1 ppm Skin
112-57-2 Tetraethylenepentamine	
WEEL	Long-term value: 5 mg/m³ Skin; DSEN
108-95-2 Phenol	
PEL	Long-term value: 19 mg/m³, 5 ppm Skin
REL	Long-term value: 19 mg/m³, 5 ppm Ceiling limit value: 60* mg/m³, 15.6* ppm *15-min; Skin
TLV	Long-term value: 19 mg/m³, 5 ppm Skin; BEI
8052-41-3 Stoddard solvent	
PEL	Long-term value: 2900 mg/m³, 500 ppm
REL	Long-term value: 350 mg/m³ Ceiling limit value: 1800* mg/m³ *15-min
TLV	Long-term value: 525 mg/m³, 100 ppm

· **Other Engineering Measures or Controls**
Ventilation rates should be matched to conditions.
If applicable, use process enclosure(s), local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.

· **Personal Protective**
· **General Protective and Hygienic Measures**
Pregnant women should avoid direct skin contact with this product.
Avoid any contact with skin or eye.

· **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.
· **Hand Protection**
Selection of glove material should take into consideration the penetration times, rates of diffusion, and the degradation.
Nitrile Gloves
Butyl Rubber Gloves
· **Eye Protection**
do not wear contacts.
safety glasses with side shields and or face shield.
· **Body Protection** Appropriate chemical resistant clothing.

· **Additional Information**
All protective clothing (suits, gloves, footwear, headgear) should be clean, available every day, and put on before work.
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.

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9 Physical and chemical properties

· **Information on Basic Physical and Chemical Properties**
· **Appearance:**
· **Form:** Liquid
· **Color:** Amber
· **Odor:** Ammonia-like
· **Odor Threshold:** Not determined.

· **PH-Value:** Not determined.

· **Change in Condition:**
· **Melting Point:** Not determined.
· **Boiling Point:** Not determined.
· **Flash Point:** > 93 °C (> 199 °F)
· **Decomposition Temperature:** Not determined.
· **Auto-ignition Temperature:** Not determined.
· **Flammability:** Not determined.
· **Explosion:** Not determined.
· **Explosion Limits:**
· **Lower:** Not determined.
· **Upper:** Not determined.

· **Vapor Pressure:** Not determined.
· **Vapor Density:** not determined
· **Density at 20 °C (68 °F):** 0.97 g/cm³ (8.095 lbs/gal)
· **Solubility in or Miscibility with**
· **Water:** Partially miscible.
· **Segregation coefficient LogPow (n-octanol/water):** Not determined.

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· **Viscosity:**
· **Dynamic:** Not determined.
· **Kinematic:** Not determined.
· **Additional Information** No further relevant information.

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10 Stability and reactivity

· **Physical Hazard(s)** Not a regulated reactive or physical hazard under GHS.
· **Hazardous Reactivity and Chemical Stability** Stable under normal conditions of use, storage and temperatures.
· **Thermal Decomposition and Conditions to be Avoided**
Keep away from incompatible material(s).
Thermally decomposes during fire or high heat; keep away from heat, sparks, open flame and other ignition sources.
· **Possibility of Other Hazardous Reaction(s)** In contact with incompatible materials.
· **Incompatible Material(s)**
Oxidizing agents
Strong reducing agents
Acids
Bases (Alkalis)
· **Hazardous Decomposition Product(s)**
Thermally decomposes during fire or very high heat. See Section 5 for fire hazards evolved during thermal decomposition.

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11 Toxicological information

· **Acute Toxicity**
· **LD/LC50 values that are relevant for classification:**
Harmful if swallowed.
If swallowed, may cause:
diarrhea
shock or collapse
abnormal pain, headache, nausea, vomiting, drowsiness
See acute inhalative effect(s) for further information

Mixture of Alicyclic aliphatic polyamine, alkyletheramine and alkylphenol.		
Oral	LD50	>2000 mg/kg (read across from 101-68-8) Alkylphenol 1100 mg/kg (rat) Alkyletheramine
84852-15-3 4-Nonylphenol, branched		
Oral	LD50	1604 mg/kg (rat) Reference: Vendor SDS (2015)
9046-10-0 Poly(oxypropylene)diamine		
Oral	LD50	2885 mg/kg (rat) (similar to OECD guideline 401) Reference: Vendor SDS (2015).
111-40-0 Diethylenetriamine		
Oral	LD50	1315 mg/kg (rat) (average of the test results of LD50 (oral, rats)) 600 mg/kg (pig) (test details not available) When considering the weight of evidence, 1315 mg/kg was used for acute oral classification. Reference: GHS-J (2006) and OECD SIDS (1996).

· **Specific symptoms in biological assay:**
May be harmful in contact with skin.
See acute inhalative effect(s) for further information.
· **Primary irritant effect:**
Harmful if inhaled.
In inhaled, may cause:
cough
nasal discharge
nausea
shortness of breath
sore throat
wheezing
· **on the skin:** Caustic effect on the skin and mucous membranes.
· **on the eye:** Strong caustic effect.
· **Sensitization:** Possible sensitization upon contact with skin.
· **Subacute to chronic toxicity:** Not applicable.
· **Experience with humans:** Not applicable.
· **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.

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· **Carcinogenic categories**

· OSHA-Ca (Occupational Safety & Health Administration)
None of the ingredients is listed.

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12 Ecological information

· **Toxicity**

· Aquatic toxicity:		
Mixture of Alicyclic aliphatic polyamine, alkyletheramine and alkylphenol.		
Dermal	LD50	2290 mg/kg (Test species: n/a) (Rabbit) Alkylphenol 1550 mg/kg (rabbit) Alkyletheramine
84852-15-3 4-Nonylphenol, branched		
Dermal	LD50	2031 mg/kg (rabbit) Vendor SDS 2015
9046-10-0 Poly(oxypropylene)diamine		
Dermal	LD50	2980 mg/kg (rabbit) (similar to OECD guideline 402) Reference: Vendor SDS (2015).
111-40-0 Diethylenetriamine		
Dermal	LD50	1090 mg/kg (rabbit) (1 out of 6 rabbits died at 10% concentration) 1090 mg/kg (Estimated from 10% concentration where 1 out of 6 rabbits died) 950 - 1240 mg/kg bw (test detail not available) 650 mg/kg (Calculated from 0.707 mL/kg which was estimated from 1.0 mL/kg where 3 out of 4 rabbits died, and 0.5 mL/kg where 1 out of 4 rabbits died) Reference: ECHA (2011) and OECD SIDS (1996).

· **Persistence and degradability** No data 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.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
· **Results of PBT and vPvB assessment**
· **PBT:** None of the ingredients is listed.
· **vPvB:** None of the ingredients is listed.

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13 Disposal considerations

· **Waste treatment methods**

· RCRA Waste:			
111-40-0	Diethylenetriamine	D002	1-2.5%
108-95-2	Phenol	U188	0-<0.1%

· **Recommendation:**
Generation of waste should be avoided or minimized wherever possible.
Chemical waste, even small quantities, is neither allowed to be poured down drains, sewage system or waterways; nor disposed with household garbage.
Dispose of contents/containers in accordance with local, regional, national, and international regulations.

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

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14 Transport information

· UN-Number	
· DOT, ADR, IMDG, IATA	UN3267
· UN Proper Shipping Name	
· DOT	Corrosive liquid, basic, organic, n.o.s.(Aliphatic polyamine, alkyletheramine and alkylphenol, 4-Nonylphenol, branched)

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· **Transport hazard class(es)**

· **DOT**

· **Class**	8 Corrosive substances
· **Label**	8

· **ADR, IMDG**

· **Class**	8 Corrosive substances
· **Label**	8

· **IATA**

· **Class**	8 Corrosive substances
· **Label**	8

· **Packing group**	
· **DOT, ADR, IMDG, IATA**	III
· **Environmental Hazards:**	
· **Marine Pollutant:**	Yes
· **Special Marking (ADR):**	Symbol (fish and tree) Symbol (fish and tree)
· **Special Precautions:**	Warning: Corrosive substances
· **Danger Code (Kemler):**	80
· **EMS Number:**	F-A,S-B
· **Segregation Groups**	Alkalis
· **Transport in Bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional Information:**	
· **DOT**	
· **Remarks:**	Special marking with the symbol (fish and tree).
· **ADR**	
· **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 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.(Aliphatic polyamine,alkyletheramine and alkylphenol, 4-Nonylphenol branched), 8, III

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15 Regulatory information

· **USA Regulation Lists**

· **SARA (Superfund Amendments and Reauthorization Act of 1986)**

· **Section 302 (Extremely Hazardous Substances)**

108-95-2	Phenol	

· **Section 313 (Toxics Release Inventory (TRI) reporting)**

80-05-7	Bisphenol A	0.1-<1%
108-95-2	Phenol	0-<0.1%

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

	Mixture of Alicyclic aliphatic polyamine, alkyletheramine and alkylphenol.	A	50-60%
84852-15-3	4-Nonylphenol, branched	A	25-30%
9046-10-0	Poly(oxypropylene)diamine	A	10-20%
111-40-0	Diethylenetriamine	A, C	1-2.5%
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	0.1-<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

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R - Reactive Hazard
S - Sudden Release of Pressure Hazard

· **TSCA (Toxic Substances Control Act)**
All ingredients are listed.

· **Proposition 65**

· **Chemicals Known to Cause Cancer**
None of the ingredients is listed.

· **Chemicals Known to Cause Reproductive Toxicity for Females**
None of the ingredients is listed.

· **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

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

108-95-2	Phenol	3

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

· **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**

· **Chinese Chemical Inventory of Existing Chemical Substances:**
All ingredients are listed.

· **Japanese Existing and New Chemical Substance List:**

	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

· **Korean Existing Chemical Inventory:**
All ingredients are listed.

· **European Pre-registered substances:**
All ingredients are listed.

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

84852-15-3	4-Nonylphenol, branched	25-30%

· **Restriction of Hazardous Substances Directive (RoHS) list:**
None of the ingredients is listed.

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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 Safety Department
· **Contact:** msds@resinlab.com

· **Abbreviations and acronyms:**
ACGIH: American Conference of Governmental Industrial Hygienists
ACToR: US EPA Aggregated Computational Toxicology Resource
ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road
BCF: Bioconcentration Factor
CAS: Chemical Abstracts Service (division of the American Chemical Society)
CCRIS: US NLM TOXNET Chemical Carcinogenesis Research Information System
CHRIP: Japan NITE Information on Biodegradation and Bioconcentration of the Existing Chemical Substances in the Chemical Risk Information Platform
DOT: US Department of Transportation
DSL: Canada Domestic Substance List
ECHA: European Chemicals Agency's Dissemination portal with information on chemical substances registered under REACH
ESIS: European Chemical Substances Information System
HMIS: US National Paint & Coatings Association (NPCA) Hazardous Materials Identification System
HPVIS: US EPA High Production Volume Information System
HSDB: US NLM TOXNET Hazardous Substances Databank
HSNO CCID: New Zealand Hazardous Substances and New Organisms Chemical Classification Information Database
IARC: International Agency for Research on Cancer developed by United Nations World Health Organisation (WHO)
IATA-DGR: Dangerous Goods Regulations (DGR) by the International Air Transport Association (IATA)

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ICAO-TI: Technical Instructions (TI) by the International Civil Aviation Organization (ICAO)
ICSC: International Chemical Safety Cards
IMDG: International Maritime Dangerous Goods; the principal international rules for International Carriage of Dangerous Goods by SEA under the Recommendations on the Transport of Dangerous Goods by United Nations (RTDG)
IUCLID: EU REACh International Uniform Chemical Information Database
Koc: Partition coefficient, soil Organic Carbon to water
LC50/LD50: Lethal Concentration/Dose, 50 percent
N/a: Not available or Not applicable
NFPA: US National Fire Protection Association
NIOSH: US National Institute of Occupational Safety and Health
NITE: National Institute of Technology and Evaluation, Japan
OECD: Organisation for Economic Co-operation and Development
OSHA: US Occupational Safety and Health Administration
P: Marine Pollutant
RCRA: Resource Conservation and Recovery Act (USA)
REACh: EU Registry, Evaluation and Authorisation of Chemicals
RID: the Regulations Concerning the International Carriage of Dangerous Goods by Rail; published by the Central Office for International Carriage by Rail (OTIF)
RTDG: the Recommendations on the Transport of Dangerous Goods by United Nations (UN)
RTECS: US Registry of Toxic Effects of Chemical Substances
SARA: US Superfund Amendments and Reauthorization Act
SIDS: OECD existing chemicals Screening Information Data Sets
SIDS SIAM(R): SIDS Initial Assessment Meetings(Reports)
SVHC: EU ECHA Substance of Very High Concern
TEEL: Temporary Emergency Exposure Limit developed by US Subcommittee on Consequence Assessment and Protective Actions (SCAPA) of US Department of Energy (DOE)
TOXLINE: US NLM bibliographic database search system
TSCA: US Toxic Substance Control Act
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