Safety Data Sheet
acc. to OSHA HCS

Printing date 10/24/2017 Reviewed on 10/24/2017

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1 Identification

· **Product identifier**

· **Trade name: EP965SC7 Clear B**

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

· **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)

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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.
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:**
Isophorone diamine
Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine
4-Nonylphenol, branched
Amine Epoxy Resin Adduct - Proprietary CAS number withheld as permitted by 29CFR1910.1200(i).
Triethylenetetramine

· **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.
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: 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.
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**

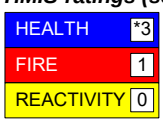
· **NFPA ratings (scale 0 - 4)**

Health = 3
Fire = 1
Reactivity = 0

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

· **HMIS System**

· **HMIS-ratings (scale 0 - 4)**



Health = *3
Fire = 1
Reactivity = 0

· **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**

· **Dangerous components:**		
CAS: 68082-29-1 NLP: 500-191-5	Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine Eye Dam. 1, H318 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Irrit. 2, H315; Skin Sens. 1, H317	40-50%
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	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	10-20%
	Amine Epoxy Resin Adduct - Proprietary CAS number withheld as permitted by 29CFR1910.1200(i). STOT RE 1, H372 STOT SE 3, H335	10-20%
CAS: 112-24-3 EINECS: 203-950-6 Index number: 612-059-00-5 RTECS: YE6650000	Triethylenetetramine Skin Corr. 1B, H314 Acute Tox. 4, H312; Skin Sens. 1, H317 Aquatic Chronic 3, H412	1-2.5%

· **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:**
Keep warm, position comfortably and cover well.
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
· **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.
Seek immediate medical advice even if no symptoms develop.
· **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.
Seek medical advice.
· **After eye contact:**
Rinse opened eye for 10-15 minutes under running water. Then consult a doctor.
Rinse opened eye for several minutes under running water.
Remove contact lenses if present and easy to do so; continue rinsing.
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.
Do NOT induce vomiting.
If victim is conscious, rinse out mouth and give two glasses of water.
Get medical attention
Drink copious amounts of water and provide fresh air. Immediately call a doctor.
If vomiting occurs spontaneously, keep victim's head below hips to prevent aspiration of liquid into lungs.
· **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**
Reproductive system function tests
Check section 11 Toxicological Information for further relevant information.

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5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
Use fire fighting measures that suit the environment.
Alcohol resistant foam
Fire-extinguishing powder
Carbon dioxide
Water spray

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water fog
· **Special hazards arising from the substance or mixture**
Will not burn unless preheated.
In case of fire, the following can be released:
May generate ammonia gas.
Nitrogen oxides (NOx)
During heating or in case of fire poisonous gases are produced.
Carbon dioxide (CO_2) 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.

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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 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.

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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.

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8 Exposure controls/personal protection

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**	
100-51-6 Benzyl alcohol	
TEEL-1	Short-term value: 260 mg/m³, 60.0 ppm
TEEL-2	Short-term value: 660 mg/m³, 150.0 ppm
TEEL-3	Short-term value: 660 mg/m³, 150.0 ppm
WEEL	Long-term value: 10 ppm
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
112-24-3 Triethylenetetramine	
WEEL	Long-term value: 6 mg/m³, 1 ppm Skin

· **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.

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Wash hands before breaks and at the end of work.
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.

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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:**	>100 °C (>212 °F)
· **Flammability (solid, gaseous):**	Not applicable.
· **Ignition temperature:**	Not determined.
· **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):**	1.02 g/cm³ (8.51 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:**	Not available.
· **Kinematic:**	Not available.
· **VOC content:**	20.00 % 204.0 g/l / 1.70 lb/gl

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10 Stability and reactivity

· **Reactivity** Not a regulated physical hazard under GHS.

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· **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 bases
Strong reducing agents
Acids
Zinc and Galvanized Surfaces
Copper and copper alloys
Aluminum
Nickel
Cobalt
· **Hazardous decomposition products:**
Possible in traces.
Refer to section 5.

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11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **LD/LC50 values that are relevant for classification:**
abnormal pain, headache, nausea, vomiting, drowsiness

68082-29-1 Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine		
Oral	LD50	>5,000 mg/kg (Rats and Mice)
Dermal	LD50	>2,000 mg/kg (Rats and Mice)
Inhalative	LC50/4 h	>20 mg/l (Test species: n/a) for vapor
100-51-6 Benzyl alcohol		
Oral	LD50	1,580 mg/kg (mouse)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>5,000 mg/l (rat)
2855-13-2 Isophorone diamine		
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)
	Corrosion Irritation	(rabbit) (OECD TG 405; 0.1 mL neat substance)
Inhalative	LC50/4 h	>5.01 mg/l (rat) (No relevant information available of LC50) OECD Guideline 403
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 satured vapor value)
112-24-3 Triethylenetetramine		
Oral	LD50	1,600 mg/kg (mouse)
Dermal	LD50	550-805 mg/kg (rabbit)
Inhalative	LC50/4 h	mg/l (rat) (No death to the saturated vapor for 8hrs)

· **Primary irritant effect:**
dizziness or lightheadedness
sore throat
asthma
diarrhea
headache, shortness of breath, and wheezing
· **on the skin:** Caustic effect on skin and mucous membranes.
· **on the eye:** Strong caustic effect.
· **Sensitization:** Sensitization possible through skin contact.
· **Subacute to chronic toxicity:**
Not applicable.
Not applicable.
· **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)**
None of the ingredients is listed.

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

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

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12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**	
68082-29-1 Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine	
EC50	mg/kg (No data available)
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)
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).
112-24-3 Triethylenetetramine	
EC50	mg/kg (rat) (Erythema, edema, and necrosis observed)

· **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:** Not known to be hazardous to water.
· **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.

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13 Disposal considerations

· **Waste treatment methods**
· **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.

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14 Transport information

· **UN-Number**	
· **DOT, IMDG, IATA**	UN3267
· **UN proper shipping name**	Corrosive liquid, basic, organic, N.O.S. Isophoronediamine, 4-Nonylphenol, branched
· **DOT**	Corrosive liquid, basic, organic, n.o.s. (Isophoronediamine, 4-Nonylphenol, branched)
· **IMDG**	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (ISOPHORONEDIAMINE, 4-Nonylphenol, branched), MARINE POLLUTANT
· **IATA**	CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (ISOPHORONEDIAMINE, 4-Nonylphenol, branched)

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

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

· **IMDG**

· **Class** 8 Corrosive substances

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· **Label** 8

· **IATA**

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

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

· **Environmental hazards:** Not applicable.

· **Special precautions for user** Warning: Corrosive substances
· **Danger code (Kemler):** 80
· **EMS Number:** F-A,S-B
· **Segregation groups** Alkalis
· **Stowage Category** A
· **Stowage Code** SW2 Clear of living quarters.
· **Segregation Code** SG35 Stow "separated from" acids.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **DOT**
· **Quantity limitations** On passenger aircraft/rail: 5 L
On cargo aircraft only: 60 L
· **Remarks:** Special marking with the symbol (fish and tree).

· **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 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (ISOPHORONEDIAMINE, 4-NONYLPHENOL, BRANCHED), 8, III, ENVIRONMENTALLY HAZARDOUS

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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	10-20%

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

2855-13-2	Isophorone diamine	A, C	10-20%
84852-15-3	4-Nonylphenol, branched	A	10-20%
112-24-3	Triethylenetetramine	A	1-2.5%

· **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):**

68082-29-1	Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine
100-51-6	Benzyl alcohol
2855-13-2	Isophorone diamine
84852-15-3	4-Nonylphenol, branched
112-24-3	Triethylenetetramine

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

68082-29-1	Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine
	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:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

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· **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:**

68082-29-1	Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine
100-51-6	Benzyl alcohol
2855-13-2	Isophorone diamine
84852-15-3	4-Nonylphenol, branched
112-24-3	Triethylenetetramine

· **GHS label elements** GHS label elements

· **National regulations:**

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

100-51-6	Benzyl alcohol
2855-13-2	Isophorone diamine
84852-15-3	4-Nonylphenol, branched
112-24-3	Triethylenetetramine

· **Korean Existing Chemical Inventory:**

68082-29-1	Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine
100-51-6	Benzyl alcohol
2855-13-2	Isophorone diamine
84852-15-3	4-Nonylphenol, branched
112-24-3	Triethylenetetramine

· **European Pre-registered substances:**

68082-29-1	Fatty acids, C18 unsaturated, dimers, polymers with tall oil fatty acids and triethylenetetramine
100-51-6	Benzyl alcohol
2855-13-2	Isophorone diamine
84852-15-3	4-Nonylphenol, branched
112-24-3	Triethylenetetramine

· **EINECS List:**

100-51-6	Benzyl alcohol
2855-13-2	Isophorone diamine
84852-15-3	4-Nonylphenol, branched
112-24-3	Triethylenetetramine

· **ELINCS List:**
None of the ingredients is listed.

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

84852-15-3	4-Nonylphenol, branched	10-20%

· **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.

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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 Development Department
· **Contact:** msds@resinlab.com
· **Date of preparation / last revision** 10/24/2017 / 4
· *** Data compared to the previous version altered.**