

Page 1/10

Reviewed on 06/01/2017

Printing date 06/01/2017

1 Identification

· Product identifier

· Trade name: EP1294 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 Corrections WI 52002

- 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 H332 Harmful if inhaled.

- Skin Corr. 1A H314 Causes severe skin burns and eye damage.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- H361 Suspected of damaging fertility or the unborn child. Repr. 2

· Label elements

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



Signal word Danger

• Hazard-determining components of labeling: N-(2-Aminoethyl)piperazine Diethylenetriamine Dietnylenetriamine Bisphenol A Fatty acids, tall-oil, reaction products with tetraethylenepentamine **Hazard statements** H332 Harmful if inhaled. 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** H361 Suspected of damaging fertility or the unborn child. **Precautionary statements** 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. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. [In case of inadequate ventilation] wear respiratory protection. If swallowed: Rinse mouth. Do NOT induce vorniting. 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 neges: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If speriencing respiratory symptoms: Call a POISON CENTER/doctor. Collect spillage. Store locked up. Dispected of contenter/container in accordance with local/regional/national/international regulations. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. Additional information: 9.4 % of the mixture consists of component(s) of unknown toxicity. Classification system: NFPA System NFPA ratings (scale 0 - 4) Health = 3 Fire = 1Reactivity = 0NFPA special hazards (water reactivity and oxidizing property): None

(Contd. on page 2)



Page 2/10

Safety Data Sheet acc. to OSHA HCS

Printing date 06/01/2017 Reviewed on 06/01/2017 Trade name: EP1294 B (Contd. of page 1) · HMIS System · HMIS-ratings (scale 0 - 4) HEALTH *3 Health = *3 FIRE 1 Fire = 1Reactivity = 0**REACTIVITY** 0 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. 3 Composition/information on ingredients Chemical characterization: Mixtures Dangerous components: CAS: 80-05-7 EINECS: 201-245-8 Index number: 604-030-00-0 RTECS: SL 6300000 10-20% Bisphenol A Repr. 2, H361 Eye Dam. 1, H318 Skin Sens. 1, H317; STOT SE 3, H335 CAS: 68953-36-6 EINECS: 273-201-6 Fatty acids, tall-oil, reaction products with tetraethylenepentamine 10-20% Skin Corr. 1A, H314 Skin Sens. 1, H317 CAS: 140-31-8 EINECS: 205-411-0 Index number: 612-105-00-4 N-(2-Aminoethyl)piperazine 10-20% Acute Tox. 3, H311 Skin Corr. 1B, H314 Acute Tox. 4, H302; Skin Sens. 1, H317 Aquatic Chronic 3, H412 RTECS: TK 8050000 CAS: 65997-17-3 EINECS: 266-046-0 Fibrous Glass 5-<10% CAS: 84852-15-3 EINECS: 284-625-5 4-Nonylphenol, branched___ 5-<10% Repr. 2, H361 Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Chronic 1, H410 Acute Tox. 4, H302 Index number: 601-053-00-8 CAS: 111-40-0 EINECS: 203-865-4 Index number: 612-058-00-X RTECS: IE 1225000 Diethylenetriamine 2.5-5% Acute Tox. 1, H330 Skin Corr. 1B, H314 Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Sens. 1, H317; STOT SE 3, H335 CAS: 100-51-6 EINECS: 202-859-9 Index number: 603-057-00-5 RTECS: DN 3150000 1-<2.5% Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2A, H319 Aquatic Acute 2, H401 CAS: 112-57-2 EINECS: 203-986-2 Index number: 612-060-00-0 RTECS: KH8585000 1-<2.5% **Tetraethylenepentamine** Skin Corr. 1B, H314 Aquatic Chronic 2, H411 Acute Tox. 4, H312 CAS: 67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica 1-2.5% EC number: 614-122-2 CAS: 103-83-3 EINECS: 203-149-1 Index number: 612-074-00-7 RTECS: DP 4500000 Benzyldimethylamine Flam. Lig. 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 1-<2.5% CAS: 75-28-5 EINECS: 200-857-2 isobutane 0.1-1% Flam. Gas 1, H220 Press. Gas, H280 Index number: 601-004-01-8 RTECS: TZ 4300000

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

Supply fresh air.

Seek medical treatment.

In case of unconsciousness place patient stably in side position for transportation.

(Contd. on page 3)



Printing date 06/01/2017	Reviewed on 06/01/2
Trade name: EP1294 B	
	(Contd. of pag
• After skin contact:	(00
Immediately wash with water and soap and rinse thoroughly.	
Seek medical advice. After eye contact:	
Rinse opened eye for 10-15 minutes under running water. Then consult a doctor.	
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.	
If victim is unconscious; never give anything by mouth. Do NOT induce vomiting.	
Rinse out mouth and then drink plenty of water.	
Seek immediate medical advice.	
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. Get medical advice/attention.	
Information for doctor:	
Most important symptoms and effects, both acute and delayed No further relevant information and appeal transformer products	ation available.
 Indication of any immediate medical attention and special freatment needed Skin. Eve. Kidney, and Reproductive system test 	
Skin, Eye, Kidney, and Reproductive system test Check section 11 Toxicological Information for further relevant information.	
Extinguishing media Suitable extinguishing agents:	
Carbon dioxide	
Alcohol resistant foam	
Fire-extinguishing powder water fog	
Use fire fighting measures that suit the environment. For safety reasons unsuitable extinguishing agents: Water with full jet	
· For safety reasons unsuitable extinguishing agents: Water with full jet	
Special hazards arising from the substance or mixture Will not burn unless preheated	
Will not burn unless preheated. In case of fire, the following can be released:	
May generate ammonia gas.	
Hydrogen chloride (HCl) Nitrogen oxides (NOx)	
Formaldehyde, a skin and lung sensitizer and a regulated carcinogen, may be formed during fires.	
Carbon dioxide (CO₂) and Carbon monoxide (CO) • Advice for firefighters	
· Protective equipment:	
Mouth respiratory protective device.	OCLIA fire briegeday standard (00)
If employees are expected to fight fires, they must be trained and equipped as stated in the (1910.156).	JSHA TIFE Drigades standard (29 0
As with any fire, wear positive-pressure self-contained breathing apparatus and full protective gea	r that are NIOSH approved.
6 Accidental release measures	
Personal precautions, protective equipment and emergency procedures	
Wear protective equipment. Keen unprotected persons away	
Wear protective equipment. Keep unprotected persons away	
Wear protective equipment. Keep unprotected persons away. Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use. • Environmental precautions:	
Wear protective equipment. Keep unprotected persons away	

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. Allow molten product to cool. 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:

Indiing: • Precautions for safe handling Do not breathe dust created by cutting, sanding, grinding or machining. Ensure good ventilation/exhaustion at the workplace. Keep away from incompatible material(s). Avoid any release into the environment. For industrial or professional use only Do not heat or aerosolize this material. 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.

(Contd. on page 4)

Page 4/10

Safety Data Sheet acc. to OSHA HCS

Reviewed on 06/01/2017

(Contd. of page 3)

Printing date 06/01/2017

AN ELLSWORTH ADHESIVES COMPANY

Trade name: EP1294 B

Conditions for safe storage, including any incompatibilities

Storage: • Requirements to be met by storerooms and receptacles:

Keep stored in accordance with local, regional, national, and international regulations.

8 Exposure controls/personal protection

· Compoi	ameters nents with limit values that require monitoring at the workplace:
	2-Aminoethyl)piperazine
TEEL-1	Short-term value: 7.5 mg/m ³
TEEL-2	Short-term value: 50.0 mg/m ³
	Short-term value: 500 mg/m ³
	Fibrous Glass
ACGIH TLV	Long-term value: 10 mg/m ³
	Long-term value: 15 mg/m ³ Total dust
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 Di	ethylenetriamine
REL	Long-term value: 4 mg/m³, 1 ppm Skin
TLV	Long-term value: 4.2 mg/m³, 1 ppm Skin
	nzyl 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
	traethylenepentamine
WEEL	Long-term value: 5 mg/m³ Skin; DSEN
	Siloxanes and Silicones, di-Me, reaction products with silica
	Short-term value: 15 mg/m ³
	Short-term value: 10 mg/m ³
	nzyldimethylamine
TEEL-1	Short-term value: 3.0 mg/m ³
TEEL-2	Short-term value: 20.0 mg/m ³
TEEL-3	Short-term value: 200.0 mg/m ³
75-28-5 isol	
TLV	Short-term value: 2370 mg/m³, 1000 ppm (EX)

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 eves and skin

Avoid contact with the eyes and skin.

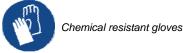
Personal Protective Equipment (PPE)

• Breathing equipment: Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended

Sufficient ventiliation in pattern and volume should be provided in order to maintain an 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



(Contd. on page 5)



Page 5/10

Safety Data Sheet acc. to OSHA HCS

Reviewed on 06/01/2017

(Contd. of page 4)



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.

Information on basic physical and chemical properties General Information Appearance: Form: Pasty Color: Mitie Odor: Amine-like Odor threshold: Not determined. Determined. Odor threshold: Not determined. Decomposition temperature: Not determined. Vapor pressure: Not determined. Vapor pressure: Not determined. Vapor pressure: Not determined. Vapor pressure: Not determined. Vapor density Not determined. Not determined. Vapor density Not determined. Not determined. Vapor density Not determined. Not determined. Not determ	9 Physical and chemical properties			
· General Information · Appearance: · Form: Pasty · Color: White · Odor threshold: Not determined. · PH-value: Not determined. · Change in condition . · Melting point/Melting range: Undetermined. · Billing point/Melting range: Undetermined. · Flash point: >100 °C (>212 °F) · Flash point: >100 °C (>212 °F) · Flammability (solid, gaseous): Not determined. · Decomposition temperature: Not determined. · Decomposition temperature: Not determined. · Danger of explosion: Product is not selfigniting. · Lower: Not determined. · Vapor pressure: Not determined. · Vapor pressure: Not determined. · Vapor density: Not determined. · Vapor density: Not determined. · Vapor density: Not determined. · Vapor density: <t< th=""><th colspan="4">Information on basic physical and chemical properties</th></t<>	Information on basic physical and chemical properties			
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· Boiling point/Boiling range: Undetermined. · Flash point: >100 °C (>212 °F) · Flammability (solid, gaseous): Not applicable. · Ignition temperature: Not determined. · Decomposition temperature: Not determined. · Danger of explosion: 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 pressure: Not determined. · Vapor density: Not determined. · Vapor density Not determined.	 Change in condition 	the determinant		
• 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. • Vapor Density: 0.53 g/cm³ (4.423 lbs/gal) • Relative density Not determined. • Vapor density Not determined. • Solubility in / Miscibility with Not determined. • Solubility in / Miscibility with Slightly soluble. • Partition coefficient (n-octanol/water): Not determined. Viscosity:	Meiting point/Meiting range: Boiling point/Roiling range:			
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Explosion limits: Lower: Not determined. Upper: Not determined. Vapor pressure: Not determined. Vapor Density: not determined. Oensity at 20 °C (68 °F): 0.53 g/cm³ (4.423 lbs/gal)	Auto igniting:	Product is not selfigniting.		
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Water: Slightly soluble. Partition coefficient (n-octanol/water): Not determined. Viscosity:	 Solubility in / Miscibility with 			
· Viscosity:	Water:			
Viscosity: Dynamic: Not determined.	Partition coefficient (n-octanol/wate			
Dynamic: Not determined.	· Viscosity:			
Kinomatia: Not datarminad	· Dynámic: · Kinematic:	Not determined. Not determined.		
Solvent content: Organic solvents: not determined		not determined		
VOC content: not determined	· VOC content:			
Solids content: 53.3 %	Solids content:	53.3 %		

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 Polymerization occurs with mineral acids. Decomposes with water, acids and alkalis. Reacts with light alloys.
 Conditions to avoid Keep away from heat, sparks, flame and any other ignition sources. The substance/mixture is hygroscopic; avoid moisture.
 Incompatible materials: Oxidizing agents metals

metals

Acids Bases (Alkalis) acrylates,alcohols,ketones,nitrites.



Page 6/10

Trade name: E	P1294 B	
		(Contd. of pag
Aluminum		
· Hazardou	s decomp	position products:
Possible in Refer to se	ection 5.	
 Additional 	l informat	ion:
As long as	the presc	ribed application concentrations are maintained there is no danger that stable emulsions will form.
11 Toxicol	ogiool ir	nformation .
11 Toxicolo		
	on on toxic toxicity:	cological effects
		lues that are relevant for classification:
	swallowed, arrhea	, may cause:
cra	amps	
ab Se	normal pa	in, headache, nausea, vomiting, drowsiness halative effect(s) for further information
		achlorocyclopentadieno) (Wetted form)
		> 25000 mg/kg (rat) Reference: EPA HPVIS (2011).
Dermal	LD50	> 8000 mg/kg (rabbit)
		No mortality was observed; the substance was not classified as an acute dermal hazard. Reference: EPA HPVIS (2011).
Inhalative	LC50/4 h	(Test species: n/a) (Toxicity not expected based on acute oral data)
		Due to wetted form of the substance, inhalative effects from dust form can be seen as neglicible. Meanwhile, bas
		on the acute oral toxicity test, it was expected that toxicity to mammals via inhalation of the substance was no significant concern and resulted in a similar lack of acute toxicity. Thus, the substance was not classified as an acu
		inhalation hazard.
80-05-7 Bi		
Oral	LD50	3300 mg/kg (Rats and Mice) Reference: IUCLID Dataset (2000) and ECHA (2011).
Dermal	LD50	Reletence. IUULID Dataset (2000) and EUTA (2011). 3000 ma/ka (rabbit) (3 out of 15 treated rabbits died at 2000 ma/ka)
Dennal	LD30	3000 mg/kg (rabbit) (3 out of 15 treated rabbits died at 2000 mg/kg) Reference: IUCLID Dataset (2000).
Inhalative	LC50/4 h	(rat) (LC0 > 0.17 mg/l: no death occurred) Reference: ECHA (2011).
		ids, tall-oil, reaction products with tetraethylenepentamine
	LD50 LD50	(rat) (LD50 > 2000 mg/kg) (rabbit) (LD50 ≥ 8550 mg/kg)
		oethyl)piperazine
		2140 mg/kg (rat)
	LD50	866 mg/kg (rabbit)
		not classified mg/l (rat) (No mortality observed at saturated atmosphere)
65997-17-		
Oral	LD50	2000-5000 mg/kg L D50 estimated to be between 2000-5000 mg/kg
		LD50 estimated to be between 2000-5000 mg/kg. Reference: Vendor SDS 2015
Dermal	LD50	>5000 ma/ka
		LD50 estimated to be >5000 mg/kg Reference: Vendor SDS 2015
Inhalative	I C50/4 h	
	2000/711	LD > 20 mg/kg
		Exposure time unknown. Reference: ChemID (2010).
81252-15-	3 4-Nonvi	phenol, branched
	LD50	1604 mg/kg (rat)
0.01		Reference: Vendor SDS (2015)
Dermal	LD50	2031 mg/kg (rabbit)
Inholotivo	1050/4 5	Vendor SDS 2015 ' not classified mg/l (mouse) (Non-toxic; LC50 exceeded the satured vapor value)
111-40-0 L		
	LD50	1315 mg/kg (rat) (average of the test results of LD50 (oral_rats))
		600 mg/kg (pig) (test details not available) 600 mg/kg (pig) (test details not available) When considering the weight of evidence, 1315 mg/kg was used for acute oral classification.
		When considering the weight of evidence, 1315 mg/kg was used for acute oral classification. Reference: GHS-J (2006) and OECD SIDS (1996).
Dermal	LD50	1090 mg/kg (rabbit) (1 out of 6 rabbits died at 10% concentration)
20,11101		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 (mL/kg where 1 out of 4 rabbits died)
		Reference: ECHA (2011) and OECD SIDS (1996).
Inhalative	LC50/4 h	>0.07-<0.3 mg/l (rat) (LĆ50(vapor; 4 hours))
		NOEL (lethalify; aerosolized air; OECD TG 403) = 0.07 mg/L
		LC100 (lethality; aerosolized air; OECD TG 403) = 0.30 mg/L



Page 7/10

Safety Data Sheet acc. to OSHA HCS

Reviewed on 06/01/2017

(Contd. on page 8)

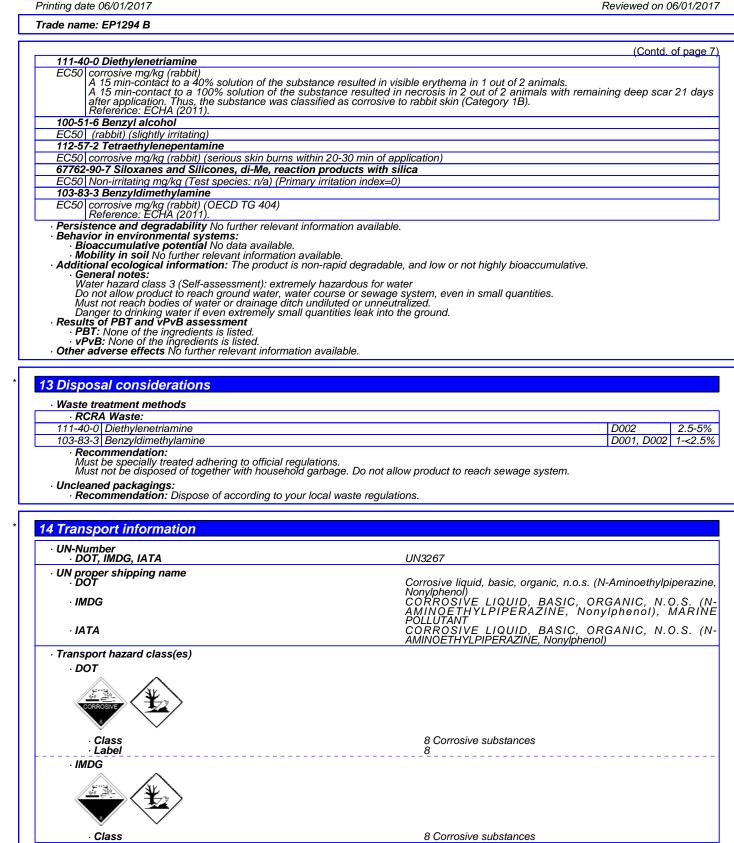
Printing date 06/01/2017 Trade name: EP1294 B

100-51-6 E Oral Dermal		
Oral	Benzvl alc	ohol (Contd. of pag
	LD50	1580 mg/kg (mouse)
nennar	LD50	2000 mg/kg (rabbit)
		not classified mg/l (rat) (LC50 exceeded the satured vapor value)
		enepentamine
Oral	LD50	2100 mg/kg (white rats) (Classified as Cat 4 by EU)
Dermal	LD50	660 mg/kg (rabbit)
Inhalative	LC50/4 h	(Test species: n/a)
		Symptoms include mucosal irritations, cough, shortness of breath, inhalation may lead to formation of oedemas in
		réspiratory tract. Corrosive to respiratory system.
67762-90-	7 Siloxan	es and Silicones, di-Me, reaction products with silica
Oral	LD50	>5000 mg/kg (rat) (test method not specified)
Dermal	LD50	(Test species: n/a) (Toxicity not expected based on acute oral data)
		(Test species: n/a) (Toxicity not expected based on acute oral data)
		ethylamine
Oral	LD50	265 mg/kg (rat)
<u> </u>		Reference: Sigma Aldrich
Dermal	LD50	1660 mg/kg (rabbit) Behavioral: Tremors/Excitement Reference: Sigma Aldrich
		Benavlorai: Tremors/Excitement Reference: Sigma Aldrich
Inhalative	LC50/4 h	2.05 mg/l (rat) (All animals died at 500ppm group)
		Calculation was based on all death of rats in 500 ppm (2721 mg/m³) group and no death in all ot
		groups.Reference: ECHA (2011).
· Sr	pecific syr	nptoms in biological assay:
Ňč	ot a classif	ed acute dermal hazard.
		halative effect(s) for further information.
. Pr	imary irri	ant effect:
	armful if inl	
l la	inhaled, n	
111 di:		ay cause.
		lightheadedness
5/1	neezing bre throat	
50		Line Other an energy of the stand and an energy membranes
	on the s	kin: Strong caustic effect on skin and mucous membranes.
	 on the e 	ye: Strong caustic effect.
· Se	ensitizatio	ye: Strong caustic effect. n: Sensitization possible through skin contact.
· Additi	ional toxic	ological information:
The pr	roduct sho	ws the following dangers according to internally approved calculation methods for preparations:
Harmf		
Corros	sive	
Irritant	t	
Swallc	owing will l	ead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.
		in extensions
		ic categories
· Ca	· IARC (In	ternational Agency for Research on Cancer)
· Ca	· IARC (In	ternational Agency for Research on Cancer)
· Ca	· IARČ (In silicon di	ternational Agency for Research on Cancer) pxide, chemically prepared
• C a 7631-86-9	· IARČ (Ir silicon di · NTP (Na	ternational Agency for Research on Cancer) oxide, chemically prepared tional Toxicology Program)
• C a 7631-86-9	· IARČ (Ir silicon di · NTP (Na	ternational Agency for Research on Cancer) pxide, chemically prepared
• C a 7631-86-9	IARČ (Ir silicon di NTP (Na e ingredie	ternational Agency for Research on Cancer) oxide, chemically prepared tional Toxicology Program) nts is listed.
• Ca 7631-86-9 None of th	IARČ (Ir silicon di NTP (Na ie ingredie OSHA-C	ternational Agency for Research on Cancer) bxide, chemically prepared tional Toxicology Program) nts is listed. Ta (Occupational Safety & Health Administration)
• Ca 7631-86-9 None of th	IARČ (Ir silicon di NTP (Na ie ingredie OSHA-C	ternational Agency for Research on Cancer) oxide, chemically prepared tional Toxicology Program) nts is listed.
• Ca 7631-86-9 None of th	IARČ (Ir silicon di NTP (Na ie ingredie OSHA-C	ternational Agency for Research on Cancer) bxide, chemically prepared tional Toxicology Program) nts is listed. Ta (Occupational Safety & Health Administration)
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· Ca 7631-86-9 None of th None of th Ecologi Toxicity	IARC (Ir silicon di NTP (Na e ingredie OSHA-C e ingredie	ternational Agency for Research on Cancer) boxide, chemically prepared tional Toxicology Program) Ints is listed. Ta (Occupational Safety & Health Administration) Ints is listed.
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Ca 7631-86-9 None of th None of th Ecologi Toxicity Aquat 13560-89-	IARĈ (Ir. silicon di NTP (Na ingredie OSHA-C ingredie ical info ical info ical info ical info	ternational Agency for Research on Cancer) bxide, chemically prepared tional Toxicology Program) hts is listed. fa (Occupational Safety & Health Administration) hts is listed. fmation fmatio
· Ca 7631-86-9 None of th None of th Ecologi Toxicity · Aquat 13560-89- EC50 (No	IARĈ (Ir. silicon di NTP (Na ingredie OSHA-C ingredie ical info ical info ical info ical info ical info ical ana ava	ternational Agency for Research on Cancer) bxide, chemically prepared tional Toxicology Program) hts is listed. fa (Occupational Safety & Health Administration) hts is listed. fmation fmatio
· Ca 7631-86-9 None of th None of th Ecologi Toxicity · Aquat 13560-89 EC50 [/W 80-05-7 B	IARĈ (Ir Silicon di NTP (Na ingredie OSHA-C ingredie iosHA-C ingredie ical info ical info ical info isolaza isolaza isphenol /	ternational Agency for Research on Cancer) bxide, chemically prepared tional Toxicology Program) ints is listed. a (Occupational Safety & Health Administration) ints is listed. cmation cmation cmation cachorocyclopentadieno) (Wetted form) ilable)
· Ca 7631-86-9 None of th None of th Ecologi Toxicity · Aquat 13560-89 EC50 [/W 80-05-7 B	IARĈ (Ir Silicon di NTP (Na ingredie OSHA-C ingredie iosHA-C ingredie ical info ical info ical info isolaza isolaza isphenol /	ternational Agency for Research on Cancer) bxide, chemically prepared tional Toxicology Program) ints is listed. a (Occupational Safety & Health Administration) ints is listed. mation mation cmation cachorocyclopentadieno) (Wetted form) liable)
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Ca 7631-86-9 None of th None of th Ecologi Toxicity Aquat 13560-89- EC50 (Mc 80-05-7 B EC50 (Mc 140-31-8 I	IARĈ (Ir. Iiicon di NTP (Na ingredie OSHA-C ingredie OSHA-C ingredie icon ingredie icon ingredie icon ingredie is bistance o data ava is phenol / irritating n a substance o fatty acc o data ava N-(2-Amin	ternational Agency for Research on Cancer) bxide, chemically prepared tional Toxicology Program) ints is listed. a (Occupational Safety & Health Administration) ints is listed. mation mati
Ca 7631-86-9 None of th None of th Ecologi Toxicity Aquat 13560-89- EC50 (Mc 80-05-7 B EC50 (Mc 140-31-8 I	IARĈ (Ir. Iiicon di NTP (Na ingredie OSHA-C ingredie OSHA-C ingredie icon ingredie icon ingredie icon ingredie is bistance o data ava is phenol / irritating n a substance o fatty acc o data ava N-(2-Amin	ternational Agency for Research on Cancer) bxide, chemically prepared tional Toxicology Program) ints is listed. a (Occupational Safety & Health Administration) ints is listed. mation mati
· Ca 7631-86-9 None of th None of th Ecologi Toxicity Aquat 13560-89- EC50 (Not 80-05-7 BI EC50 (Not The 68953-36- EC50 (Not 140-31-8 I EC50 (con	IARĈ (Ir. Iiicon di NTP (Na ingredie OSHA-C ingredie OSHA-C ingredie ical info ical info isghenol / irritating n a substanc 6 Fatty ac o data ava N-(2-Amin rosive mg/	ternational Agency for Research on Cancer) bxide, chemically prepared tional Toxicology Program) ints is listed. a (Occupational Safety & Health Administration) ints is listed. mation mati
· Ca 7631-86-9 None of th None of th Ecologi Toxicity · Aquat 13560-89- EC50 (Ne 80-05-7 B) EC50 (Ne 80-05-7 B) EC50 (not The 68953-36 EC50 (con 65997-17-	IARĈ (Ir. Iiicon di NTP (Na ingredie OSHA-C ingredie OSHA-C ingredie ical info ical info is bis(hex. o data ava isphenol J irritating n e substance 6 Fatty ac o data ava Substance 6 Fatty ac o data ava Substance 6 Fatty ac o cosive mg/ 3 Fibrous	ternational Agency for Research on Cancer) pxide, chemically prepared tional Toxicology Program) this is listed. Ta (Occupational Safety & Health Administration) this is listed. Tabitis Isisted. Tabitis
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Ca 7631-86-9 None of th None of th Ecologi Toxicity Aquat 13560-89- EC50 (Ma 80-05-7 Bi EC50 (Ma 140-31-8 I EC50 con 65997-17- EC50 The Ref 84852-15-	IARĈ (Ir. III.con di III.con di NTP (Na Ingredie OSHA-C ingredie OSHA-C ingredie ict toxicity 9 Bis(hex o data ava isphenol / irritating n e substanc 6 Fatty ac o data ava N-(2-Amin rosive mg/ 3 Fibrous a substance ference: H 3 4-Nonyl	ternational Agency for Research on Cancer) pxide, chemically prepared tional Toxicology Program) nts is listed. a (Occupational Safety & Health Administration) nts is listed. mation m



Page 8/10

Reviewed on 06/01/2017



(Contd. on page 9)



Page 9/10

Safety Data Sheet acc. to OSHA HCS

Printing date 06/01/2017 Reviewed on 06/01/2017 Trade name: EP1294 B (Contd. of page 8) · Label 8 ·IATA · Class 8 Corrosive substances · Label 8 Packing group DOT, IMDG, IATA III· Environmental hazards: • Marine pollutant: Yes Symbol (fish and tree) Special precautions for user
 Danger code (Kemler):
 EMS Number: Warning: Corrosive substances 80 F-A,S-B Segregation groups
 Stowage Category
 Stowage Code
 Segregation Code Alkalis A SW2 Clear of living quarters. 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 Special marking with the symbol (fish and tree). Remarks: ·IMDG 5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml Limited quantities (LQ)
 Excepted quantities (EQ) UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (N-AMINOETHYLPIPERAZINE, NONYLPHENOL), 8, III · UN "Model Regulation":

15 Regulatory information

	SARA Section 355 (extremely hazardous substances):		
None of the	ingredients is listed.		
	SARA Section 313 (Specific toxic chemical listings):		
	Bisphenol A		10-20%
84852-15-3	4-Nonylphenol, branched		5-<10%
· SAF	RA Section 311/312 (Hazardous Chemical Inventory Reporting)		
	Bisphenol A	A, C	10-20%
140-31-8	N-(2-Aminoethyl)piperazine	A, C	10-20%
	Fibrous Glass	Acute Health, Chronic Health	5-<10%
84852-15-3	4-Nonylphenol, branched	A	5-<10%
	Diethylenetriamine	A, C	2.5-5%
112-57-2	Tetraethylenepentamine	A	1-<2.5
	S - Sudden Release of Pressure Hazard CA (Toxic Substances Control Act):		
	Bisphenol A		
	Fatty acids, tall-oil, reaction products with tetraethylenepentamine		
	N-(2-Aminoethyl)piperazine		
	Fibrous Glass		
	4-Nonylphenol, branched		
	Diethylenetriamine		
	Benzyl alcohol		
100-51-6			
	Tetraethylenepentamine		
112-57-2	Tetraethylenepentamine Siloxanes and Silicones, di-Me, reaction products with silica		
112-57-2 67762-90-7			



Printing date 06/01/2017

Page 10/10

US

Safety Data Sheet acc. to OSHA HCS

Reviewed on 06/01/2017

Trade name: EP1294 B	
	(Contd. of page 9)
25214-39-5 Vinylidene chloride, methyl methacrylate, acrylonitrile polymer	
7631-86-9 silicon dioxide, chemically prepared	
75-28-5 isobutane	
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:	
All ingredients are listed.	
· GHS label elements GHS label elements	
National regulations:	
Japanese Existing and New Chemical Substance List: 13560-89-9 Bis(hexachlorocyclopentadieno) (Wetted form)	
80-05-7 Bisphenol A	
68953-36-6 Fatty acids, tall-oil, reaction products with tetraethylenepentamine	
140-31-8 N-(2-Aminoethyl)piperazine	
84852-15-3 4-Nonylphenol, branched	
111-40-0 Diethylenetriamine	
100-51-6 Benzyl alcohol	
112-57-2 Tetraethylenepentamine	
67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica	
103-83-3 Benzyldimethylamine	
25214-39-5 Vinylidene chloride, methyl methacrylate, acrylonitrile polymer	
7631-86-9 silicon dioxide, chemically prepared	
75-28-5 isobutane	
Korean Existing Chemical Inventory:	
All ingredients are listed.	
European Pre-registered substances:	
All ingredients are listed.	
REACh - Substances of Very High Concern (SVHC) List:	
80-05-7 Bisphenol A	10-20%
84852-15-3 4-Nonylphenol, branched	5-<10%
Restriction of Hazardous Substances Directive (RoHS) list:	0 10/0
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 06/01/2017 / 4
 * Data compared to the previous version altered.