

Revision Date 03/15/2017 Print Date 03/15/2017

Product Identifier

Trade Name: EP1400 B

Application of the Substance or Mixture: Epoxy Hardener

· Details of the Supplier of the Safety Data Sheet (SDS)

Manufacturer or Supplier:
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: 01-703-527-3867 (24 hours)

2 Hazard(s) identification

· Hazard Classification

Skin Corr. 1A H314 Causes severe skin burns and eye damage. Skin Sens. 1 H317 May cause an allergic skin reaction.

· Label Elements

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

· Pictogram(s)





GHS05

· Signal Word Danger

· Hazard-determining Component(s)
Fatty acids, tall-oil, reaction products with tetraethylenepentamine N-(2-Aminoethyl)piperazine

Tetraethylenepentamine Bisphenol-A-(epichlorohydrin) epoxy resin

Hazard statements
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

• Precautionary statements

Do not breathe dusts or mists.

Wear protective gloves/protective clothing/eye protection/face protection.

Wear protective gloves/protective clothing/eye protection/face protection.

Wash thoroughly after handling.

Contaminated work clothing must not be allowed out of the workplace.

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.

Immediately call a POISON CENTER/doctor.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Wash contaminated clothing before reuse.

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.

Additional information:

20.7 % of the mixture consists of component(s) of unknown toxicity.

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



Health = 3Fire = 1Reactivity = 0

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

HMIS System
HMIS Ratings (scale 0 - 4)



Health = *3Fire = 1 Reactivity = 0

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





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3 Composition/information on ingredients

· Chemical Characterization: Mixtures

Composition/Information	*** * *	
· Composition/Informatio		
CAS: 68953-36-6 EINECS: 273-201-6	Fatty acids, tall-oil, reaction products with tetraethylenepentamine	30-40%
	Skin Corr. 1A, H314 Skin Sens. 1, H317	
CAS: 13560-89-9 EINECS: 236-948-9	Bis(hexachlorocyclopentadieno) STOT RE 2, H373	20-30%
CAS: 65997-17-3 EINECS: 266-046-0	Fibrous Glass	20-30%
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 Skin Corr. 1B, H314 Acute Tox. 4, H302; Skin Sens. 1, H317 Aquatic Chronic 3, H412	10-20%
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	2.5-5%
CAS: 67762-90-7 EC number: 614-122-2	Siloxanes and Silicones, di-Me, reaction products with silica	1-2.5%
CAS: 25068-38-6 NLP: 500-033-5 Index Number: 603-074-00-8	Bisphenol-A-(epichlorohydrin) epoxy resin Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	1-<2.5%
CAS: 112926-00-8	Precipitated silica (Silica-Amorphous)	0.1-1%
CAS: 78-78-4 EINECS: 201-142-8 Index Number: 601-085-00-3 RTECS: EK 4430000	STOT SE 3, H336 Aquatic Acute 2, H401	0.1-1%
CAS: 1333-86-4 EINECS: 215-609-9 RTECS: FF5800000	Carbon black	0-<0.1%

• Additional Information:

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

4 First-aid measures

Description of First Aid Measures General Information

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. Supply fresh air; consult doctor in case of complaints.

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

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. Get medical attention

Information for Doctor
 Indication of any Immediate Medical Attention and Special Treatment Needed Check section 11 Toxicological Information for further relevant information.

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 (CO₂).
 Water spray or water fog.

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· 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. Apply water from as far as a distance as possible.

Special Hazards Arising in Fire In case of fire, following can be released:

Phenolic compounds
Formaldehyde, a skin and lung sensitizer and a regulated carcinogen, may be formed during fires.
Carbon dioxide (CO₂) 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.

· Additional Information Ensure adequate and functional fire fighting facilities equipped in working area at all times.

6 Accidental release measures

Personal Precautions

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 No further relevant information.

Cleaning Up Methods
Ensure adequate ventilation.
Eliminate all ignition sources.
Keep unauthorized personnel away.
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.

Trotective Action Official for Officialicals
· PAC-1:
65007 17 2 Fibraus Class

65997-17-3 Fibrous Glass 140-31-8 N-(2-Aminoethyl)piperazine 112-57-2 Tetraethylenepentamine	15 mg/m3 6.4 mg/m3 15 mg/m3
112-57-2 Tetraethylenepentamine	15 mg/m3
67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica	120 mg/m3
25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin	90 mg/m3
112926-00-8 Precipitated silica (Silica-Amorphous)	18 mg/m3
78-78-4 isopentane	3000* ppm
1333-86-4 Carbon black	9 mg/m3
· PAC-2:	
65997-17-3 Fibrous Glass	170 mg/m3
140-31-8 N-(2-Aminoethyl)piperazine	71 mg/m3
112-57-2 Tetraethylenepentamine	130 mg/m3
67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica	1,300 mg/m3
25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin	990 mg/m3
112926-00-8 Precipitated silica (Silica-Amorphous)	200 mg/m3
78-78-4 isopentane	33000*** ppm
1333-86-4 Carbon black	99 mg/m3
· PAC-3:	
65997-17-3 Fibrous Glass	990 mg/m3
140-31-8 N-(2-Aminoethyl)piperazine	420 mg/m3
112-57-2 Tetraethylenepentamine	790 mg/m3
67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica	7,900 mg/m3
25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin	5,900 mg/m3
112926-00-8 Precipitated silica (Silica-Amorphous)	1,200 mg/m3
78-78-4 isopentane	200000*** ppm
1333-86-4 Carbon black	590 mg/m3

7 Handling and storage

Handling

 Precautions for Safe Handling
 Do not breathe dust created by sanding, grinding or machining.
 Do not breathe dustfume/gast/mist/vapor/spray.
 Keep away from incompatible material(s).
 Avoid any release into the environment.

Avoid any freease into the environment.
For industrial or professional use only
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.

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Be prepared with respirators.

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.

8 Exposure controls/personal protection

Engineering Measures or Controls
Exposure Limit Values that Require Monitoring at the Workplace

The follo	wing constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.	
	me, the other constituents have no known exposure limits. Bis(hexachlorocyclopentadieno)	
TWA	Short-term value: 1 mg/m³ MFG recommendation 8 hour TWA	
65997-17-3	Fibrous Glass	
	Long-term value: 10 mg/m ³	
OSHA PEL	Long-term value: 15 mg/m³ Total dust	
140-31-8 N-((2-Aminoethyl)piperazine	
TEEL-1	Short-term value: 7.5 mg/m³	
TEEL-2	Short-term value: 50.0 mg/m³	
TEEL-3	Short-term value: 500 mg/m ³	
112-57-2 Te	112-57-2 Tetraethylenepentamine	
WEEL	Long-term value: 5 mg/m³ Skin; DSEN	
67762-90-7	67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica	
OSHA PEL	Short-term value: 15 mg/m ³	
US ACGIH	Short-term value: 10 mg/m³	
112926-00-8	Precipitated silica (Silica-Amorphous)	
PEL	20mppcf or 80mg/m3 /%SiO2	
REL	Long-term value: 6 mg/m ³	
	See Pocket Guide App. C	
TLV	TLV withdrawn	
78-78-4 isop		
PEL	Long-term value: 2950 mg/m³, 1000 ppm	
TLV	Long-term value: 2950 mg/m³, 1000 ppm	
	arbon black	
PEL	Long-term value: 3.5 mg/m³	
REL	Long-term value: 3.5* mg/m³ *0.1 in presence of PAHs;See Pocket Guide Apps.A+C	
TLV	Long-term value: 3* mg/m³ *inhalable fraction	
0.1 =		

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

Sonal Protective
General Protective and Hygienic Measures
Avoid any contact with skin or eye.
Do not eat, drink or smoke during work.
Clean hands and exposed skin thoroughly after work and before breaks.

Personal Protective Equipment (PPE)
Breathing Equipment
Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended

sunicient ventilation in patient 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

Solvetion of glove material should take into consideration the population times, rates of diffusion, and the degradation.

Selection of glove material should take into consideration the penetration times, rates of diffusion, and the degradation. Nitrile Gloves

Butyl Rubber Gloves

• Eye Protection safety glasses with side shields and or face shield.

• Body Protection Appropriate chemical resistant clothing.

· Additional Information

Additional minimum and put on before work.

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: Color: Gray Characteristic · Odor: Odor Threshold: Not determined. PH-Value: Not determined. Change in Condition: Melting Point: Boiling Point: Flash Point: Not determined. Not determined. >93 °C (>199 °F) Not determined. Decomposition Temperature: · Auto-ignition Temperature: · Flammability: Not determined. Not determined. Explosion: Not determined. Explosion Limits: Lower: Not determined. · Upper: Not determined. Vapor Pressure: Vapor Density: Density at 20 °C (68 °F): Solubility in or Miscibility with Not determined. not determined 0.54 g/cm³ (4.506 lbs/gal) Water: Partially miscible. Viscosity: Dynamic: Not determined. Kinematic: Not determined · Additional Information No further relevant information.

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)
May slowly corrode Copper, Aluminum, Nickel, Cobalt, Zinc and Galvanized surfaces.

May react with strong reducing agents generating flammable hydrogen (H₂).

Incompatible Material(s)

Oxidizing agents
Sodium hypochlorite, Nitrous acid and other nitrosating agents

Hazardous Decomposition Product(s)

Ammonia (NH₃) and/or Amines.
Thermally decomposes during fire or very high heat. See Section 5 for fire hazards evolved during thermal decomposition.

11 Toxicological information Acute Toxicity LD/LC50 values that are relevant for classification: If swallowed, may cause: shock or collapsé Not a classified acute oral hazard. 68953-36-6 Fatty acids, tall-oil, reaction products with tetraethylenepentamine Oral LD50 (rat) (LD50 > 2000 mg/kg)(rabbit) (LD50 ≥ 8550 mg/kg) I D50 Dermal 13560-89-9 Bis(hexachlorocyclopentadieno) > 25000 mg/kg (rat) Reference: EPA HPVIS (2011). LD50 Oral > 8000 mg/kg (rabbit) No mortality was observed; the substance was not classified as an acute oral hazard. Reference: EPA HPVIS (2011). Dermal LD50 > 2.25 mg/l (rat) No mortality or any adverse effects were observed; classification was not possible. Reference: ACToR (2011). Inhalative LC50/4 h 65997-17-3 Fibrous Glass 2000-5000 mg/kg LD50 estimated to be between 2000-5000 mg/kg. Reference: Vendor SDS 2015 Oral LD50

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			(Contd of page 5)
	Dermal	LD50	>5000 mg/kg (Contd. of page 5)
	Dominai	LDOO	LD50 estimated to be >5000 mg/kg Reference: Vendor SDS 2015
	Inhalative	LC50/4 h	
			LD > 20 mg/kg
			Exposure time unknown. Reference: ChemID (2010).
	140-31-8 I	V-(2-Amin	oethyl)piperazine
	Oral		2140 mg/kg (rat)
	Dermal	LD50	866 mg/kg (rabbit)
	Inhalative	LC50/4 h	not classified mg/l (rat) (No mortality observed at saturated atmosphere)
	112-57-2	Tetraethyl	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 the respiratory tract. Corrosive to respiratory system.
	67762-00	7 Silovan	es and Silicones, di-Me, reaction products with silica
	07702-90- Oral	LD50	>5000 mg/kg (rat) (test method not specified)
	Orai Dermal	LD50 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)
-	23000-30- Oral	о візрпен LD50	
	Orai Dermal		11400 mg/kg (rat)
			20000 mg/kg (rabbit) (Test guideline not available)
			(Test species: n/a) (Toxicity not expected based on the acute oral data)
	· Specii · Prima	nc sympto ry irritant	oms in biological assay: Not a classified acute dermal hazard.
			ified inhalative acute toxicity hazard, the product may cause the following symptoms:
	burnin	g sensatio	
	sore th	nroat	

Not a classified acute inhalative hazard. cough, headache, nausea, shortness of breath, vomiting, and wheezing

- on the skin: Strong 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: Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

Toxicity

Aquatic toxicity:

68953-36-6 Fatty acids, tall-oil, reaction products with tetraethylenepentamine

EC50 (No data available)

13560-89-9 Bis(hexachlorocyclopentadieno)

EC50 (No data available)

65997-17-3 Fibrous Glass

EC50 The substance in dust form causes skin irritation. Reference: Haz-Map (2010).

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

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

112-57-2 Tetraethylenepentamine

EC50 corrosive mg/kg (rabbit) (serious skin burns within 20-30 min of application)

67762-90-7 Siloxanes and Silicones, di-Me, reaction products with silica

EC50 Non-irritating mg/kg (Test species: n/a) (Primary irritation index=0) 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin

EC50 irritating mg/kg (rabbit)

Persistence and degradability No data available.

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 2 (Self-assessment): hazardous for water

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Do not allow product to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

Danger to drinking water if even small quantities leak into the ground.

Results of PBT and vPvB assessment

PBT: None of the ingredients is listed.

- - · vPvB: None of the ingredients is listed.
- · Other adverse effects No further relevant information.

13 Disposal considerations

- · Waste treatment methods
 - 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

Dispose of contents/containers in accordance with local, regional, national, and international regulations.

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

Transport information		
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Not Regulated	
UN Proper Shipping Name DOT, ADN, IMDG, IATA	Not Regulated	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA Class	Not Regulated	
Packing group DOT, ADR, IMDG, IATA	Not Regulated	
Environmental Hazards:	Not applicable.	
Special Precautions: Stowage Category	Not applicable. NA	
Transport in Bulk according to Annex II of MARP IBC Code	OL73/78 and the Not applicable.	

15 Regulatory information

· USA Regulation Lists · SARA (Superfund Amendments and Reauthorization Act of 1986)

Section 302 (Extremely Hazardous Substances) None of the ingredients is listed.

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

None of the ingredients is listed.

1333-86-4 Carbon black

· Section 311/312 (Hazardous Chemical Inventory Reporting) 65997-17-3 Fibrous Glass Acute Health, Chronic Health 20-30% 140-31-8 N-(2-Aminoethyl)piperazine A, C 112-57-2 Tetraethylenepentamine Α 25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin A, C

· 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
·TSC	A (Toxic Substances Control Act)
68953-36-6	Fatty acids, tall-oil, reaction products with tetraethylenepentamine
13560-89-9	Bis(hexachlorocyclopentadieno)
	Fibrous Glass
	N-(2-Aminoethyl)piperazine
112-57-2	Tetraethylenepentamine
	Siloxanes and Silicones, di-Me, reaction products with silica
25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin
78-78-4	isopentane
1333-86-4	Carbon black

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10-20%

2.5-5%

1-<2.5%

0-<0.1%

A, C



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Proposition 65 Chemicals Known to	Cause Cancer
1333-86-4 Carbon black	Gause Gancer
•	Cause Reproductive Toxicity for Females
None of the ingredients is listed.	Cause Reproductive Toxicity for Females
•	Cause Reproductive Toxicity for Males
None of the ingredients is listed.	Cause Reproductive Toxicity for males
	Cause Developmental Toxicity
None of the ingredients is listed.	Cause Developmental Toxicity
Carcinogenic Categorie	
· EPA (Environmental	rotection Agency)
None of the ingredients is listed.	and the Books of Constant
	gency for Research on Cancer)
112926-00-8 Precipitated silica (\$ 1333-86-4 Carbon black	ilica-Amorphous)
	January Duagrams)
None of the ingredients is listed.	logy Program)
	Volus Established by ACOUL
1333-86-4 Carbon black	Value Established by ACGIH)
NIOSH-Ca (National	nstitute for Occupational Safety and Health)
None of the ingredients is listed.	
International Regulation Lis	
Chinese Chemical In	ventory of Existing Chemical Substances:
	eaction products with tetraethylenepentamine
13560-89-9 Bis(hexachlorocyclo	pentadieno)
65997-17-3 Fibrous Glass	
140-31-8 N-(2-Aminoethyl)pip	
112-57-2 Tetraethylenepenta	nes, di-Me, reaction products with silica
25068-38-6 Bisphenol-A-(epichl	ies, arme, reaction products with since products with since production appear resin
112926-00-8 Precipitated silica (S	ilina-Amorphous)
78-78-4 isopentane	med 7 miles privately
1333-86-4 Carbon black	
	nd New Chemical Substance List:
68953-36-6 Fatty acids, tall-oil	eaction products with tetraethylenepentamine
13560-89-9 Bis(hexachlorocycle	pentadieno)
140-31-8 N-(2-Aminoethyl)pip	
112-57-2 Tetraethylenepenta	nine
67762-90-7 Siloxanes and Silico	nes, di-Me, reaction products with silica
25068-38-6 Bisphenol-A-(epichl	prohydrin) epoxy resin
112926-00-8 Precipitated silica (S	ilica-Amorphous)
78-78-4 isopentane	
1333-86-4 Carbon black	
Korean Existing Che	nical Inventory:
	eaction products with tetraethylenepentamine
13560-89-9 Bis(hexachlorocyclo	pentadieno)
65997-17-3 Fibrous Glass	
140-31-8 N-(2-Aminoethyl)pip	
112-57-2 Tetraethylenepenta	nine nes, di-Me, reaction products with silica
25068-38-6 Bisphenol-A-(epichl	les, ar-ine, reaction products with since products with since production appear resin
112926-00-8 Precipitated silica (\$	ilica-Amorphous)
78-78-4 isopentane	med 7 miles privately
1333-86-4 Carbon black	
· European Pre-regist	red substances.
68953-36-6 Fatty acids, tall-oil	eaction products with tetraethylenepentamine
13560-89-9 Bis(hexachlorocyclo	
65997-17-3 Fibrous Glass	
140-31-8 N-(2-Aminoethyl)pig	erazine
112-57-2 Tetraethylenepenta	nine
67762-90-7 Siloxanes and Silico	nes, di-Me, reaction products with silica
25068-38-6 Bisphenol-A-(epichl	prohydrin) epoxy resin
112926-00-8 Precipitated silica (S	ilica-Amorphous)
78-78-4 isopentane 1333-86-4 Carbon black	

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· Restriction of Hazardous Substances Directive (RoHS) list:

None of the ingredients is listed.

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 CCRIS: US NILM 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
CLP/GHS: CLP (Classification, Labelling and Packaging of substances and mixtures) implements the Globally harmonised System
(GHS) under Regulation (EC) No 1272/2008.
DOT: US Department of Transportation
DSL: Canada Domestic Substance List
ESIS: European Chemical Substances Information System
HMIS: US National Paint & Coatings Association (NPCA) Hazardous Materials Identification 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)
ICAO-TI: Technical Instructions (TI) by the International Civil Aviation Organization (ICAO)
ICSC: 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)
Koc: Partition coefficient, soil Organic Carbon to water
LCSO/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
OFCD: Organisation for Feconomic Concentration and Development

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
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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