

Printing date 03/14/2018 Reviewed on 03/14/2018

1 Identification

- · Product identifier

 - Trade name: EP1238 Black B
 Recommended use Epoxy Hardener
 Restrictions on use For industrial use only
- · Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Manufacturer/Supplier:
ResinLab, LLC
N109 W13300 Ellsworth Drive
Germantown, WI 53022
1-877-259-1669
www.resinlab.com
Information Department: Product Safety Department: msds@resinlab.com
Emergency Telephone Number:
North America - Chemtrec: 1-800-424-9300 (24 hours)
International - Chemtrec: 01-703-527-3887 (24 hours)

2 Hazard(s) identification

· Classification of the substance or mixture

Skin Corr. 1B 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).

· Hazard pictograms



· Signal word Danger

 Hazard-determining components of labeling:
 4,7,10-Trioxatridecane-1,13-Diamene
 Bisphenol-A-(epichlorohydrin) epoxy resin
 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid Resorcinol

Hazard statements

Hazard statements
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
Precautionary statements
Avoid breathing dust/fume/gas/mist/vapors/spray
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves / 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.
If skin irritation or rash occurs: Get medical advice/attention.

If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Nash Containing the Colling Belove rease. 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 = 3Fire = 1Reactivity = 0

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

HMIS System
HMIS-ratings (scale 0 - 4)



Health = 3Fire = 1Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.





Printing date 03/14/2018 Reviewed on 03/14/2018

Trade name: EP1238 Black B

(Contd. of page 1)

3 Composition/information on ingredients

· Chemical characterization: Mixtures

 Dangerous components 	s:	
CAS: 4246-51-9 EINECS: 224-207-2	4,7,10-Trioxatridecane-1,13-Diamene Skin Corr. 1B, H314 Skin Sens. 1, H317	50-60%
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	≥20-<25%
CAS: 74398-71-3 EC number: 616-085-8	1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid Skin Sens. 1, H317	10-20%
CAS: 108-46-3 EINECS: 203-585-2 Index number: 604-010-00-1 RTECS: VG 9625000	Resorcinol Eye Dam. 1, H318 Aquatic Acute 1, H400 Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1B, H317	≥3-<5%
CAS: 67762-90-7 EC number: 614-122-2	Siloxanes and Silicones, di-Me, reaction products with silica	2.5-5%

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.

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.

After inhalation:

Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing. Supply fresh air and if symptoms occur call for a doctor. In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly.
Remove all contaminated clothing and wash before reuse.
If medical attention is not immediately available continue flushing skin for one hour. Cover wound with sterile dressing. Seek medical treatment.

After eye contact:

Flush eyes with water for 15 minutes occasionally lifting the upper and lower eyelids. Check for and remove contact lenses. Continue to irrigate eye until patient receives medical attention.

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 with water.
Seek immediate medical advice.

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

Check section 11 Toxicological Information for further relevant information.

5 Fire-fighting measures

· Extinguishing media

Suitable extinguishing agents: Use fire fighting measures that suit the environment. Alcohol resistant foam

Carbon dioxide

water fog
Fire-extinguishing powder

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)
Phenolics
Formaldobydo, a skin and lung consitizor and a regulated of

Friendics
Formaldehyde, a skin and lung sensitizer and a regulated carcinogen, may be formed during fires.
Carbon dioxide (CO₂) and Carbon monoxide (CO)
Silicon oxide (SiO₂)
Advice for firefighters

· Protective equipment:

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.



Printing date 03/14/2018 Reviewed on 03/14/2018

Trade name: EP1238 Black B

(Contd. of page 2)

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Wear protective equipment. Keep unprotected persons away.
Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use.
Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:
For large spills: provide diking or containment to minimize spreading. If possible pump and store material in appropriate container.
For small spills: Ventilate and wash area. Collect spills and absorbant material in appropriate container.
Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent if necessary.
Dispose contaminated material as waste according to item 13.

7 Handling and storage

Handling:

 Precautions for safe handling
 Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Keep away from incompatible material(s). Avoid any release into the environment.

Do not breathe dust/fumes/mist/vapor/spray.
Avoid contact with eyes, skin and clothing.
Keep away from heat,sparks, flames and ignition sources.
Observe all the personal protection requirements in Section 8.

· Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: Provide ventilation for receptacles.

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

8 Exposure controls/personal protection

· Control parameters

 Components with limit values that require monitoring at the workplace:
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108-46-3 Resorcinol

Short-term value: 90 mg/m³, 20 ppm Long-term value: 45 mg/m³, 10 ppm RFI Short-term value: 90 mg/m³, 20 ppm Long-term value: 45 mg/m³, 10 ppm

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

OSHA PEL | Short-term value: 15 mg/m³ US ACGIH | Short-term value: 10 mg/m3

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. 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:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

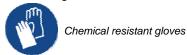
Personal Protective Equipment (PPE)

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

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



(Contd. of page 3)



Safety Data Sheet acc. to OSHA HCS

Printing date 03/14/2018 Reviewed on 03/14/2018

Trade name: EP1238 Black B

· 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.

O Dhysical and shamisal nyanayti	
9 Physical and chemical properti	es
Information on basic physical and cher General Information Appearance:	nical properties
Form: Color: Odor:	Liquid Amber colored Amine-like
· Odor threshold:	Not determined.
· pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Undetermined.
· Flash point:	>120 °C (>248 °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: · Upper:	Not determined. Not determined.
· Vapor pressure: · Vapor Density:	Not determined. not determined
Density at 20°C (68°F): Relative density Vapor density Evaporation rate	1.07 g/cm³ (8.93 lbs/gal) Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water:	Fully miscible.
· Partition coefficient (n-octanol/wate	er): Not determined.
· Viscosity: · Dynamic: · Kinematic: · VOC content:	Not available. Not available. 0.00 % 0.0 q/l / 0.00 lb/ql

10 Stability and reactivity

- Hazardous Reactivity and Chemical Stability Stable under normal conditions of use 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
 may corrode copper, aluminum, zinc and galvanized surfaces.

 Sodium hypochlorite

 Mercaptans
 Acids
 Amines

 · Hazardous Reactivity and Chemical Stability Stable under normal conditions of use, storage and temperatures.

Amines

Hazardous decomposition products: Possible in traces.



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Trade name: EP1238 Black B

(Contd. of page 4)

Information on toxicological effects			(Contd. of pa	،ge
Information on toxicological effects Acute toxicity: LDI-C50 values that are relevant for classification: 4246-51-9 4,7,10-Trioxatridecane-1,13-Diamene Oral LD50 4,31 mg/lg (rat) 2,500 mg/kg (rabbit) (Calculated from LD50 of 2.5 mL/kg) Inhalative LC504 h mg/l (No data available) 25068-38-6 Bisphenot-A-(epichiorohydrin) epoxy resin Oral LD50 1,400 mg/kg (rab) Inhalative LC504 h mg/l (Test species: r/a) (Toxicity not expected based on the acute oral data) Inhalative LC504 h mg/l (Test species: r/a) (Toxicity not expected based on the acute oral data) 174398-71-31, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid Oral LD50 > 5,000 mg/kg (rab) Dermal LD50 > > 5,000 mg/kg (rab) Inhalative LC504 h mg/l (Test species: n/a) (Toxicity not expected based on the acute oral data) 108-6-3 Reserctinol Oral LD50 50 mg/kg (rat) Reference: Oxychem (M)SDS (2015). 3 30 mg/kg (rabbit) Reference: Oxychem 2015 Inhalative LC504 h Reference: Oxychem (M)SDS (2015). 3 30 mg/kg (rabbit) Reference: Oxychem 2015 Inhalative LC504 h Sp00 mg/l (rat) (LC0 (8 hrs. aerosol) ≥ 2.8mg/l (622 ppm)) Reference: Oxychem 2015 Inhalative LC504 h Sp00 mg/l (rat) (LC0 (8 hrs. aerosol) ≥ 2.8mg/l (622 ppm)) Reference: Oxychem 2015 Inhalative LC504 h Sp00 mg/l (rat) (LC0 (8 hrs. aerosol) ≥ 2.8mg/l (622 ppm)) Reference: Oxychem 2015 Inhalative LC504 h Sp00 mg/l (rat) (city not expected based on acute oral data) Inhalative LC504 h Sp00 mg/l (rat) (section products with silica Oral LD50 Sp00 mg/l (rat) (section products with silica Oral LD50 Sp00 mg/l (rat) (section products with silica Oral LD50 Sp00 mg/l (rat) (section products with silica Oral LD50 Sp00 mg/l (rat) (section products with silica Oral LD50 Sp00 mg/l (rat) (section products with silica Oral LD50 Sp00 mg/l (rat) (section products with silica Oral LD50 Sp00 mg/l (rat) (section products with silica Oral LD50 Sp00 mg/l (rat) (section products with silica Oral LD50 Sp00 mg/l (rat) (section products with silica	1 Toyicola	ogical i	nformation	
LDLC50 values that are relevant for classification: 4245-51-9 4,7,10-Trioxatridecane-1,13-Diamene Oral		T.		
LDLC50 values that are relevant for classification: 2445-51-9 4, 710-Trioxartidecane-1, 13-Diamene			icological effects	
Ag. 16-51-9 4 7,10-Trioxatridecane-1,13-Diamene			luas that are relevant for classification:	
Oral LD50 4,310 mg/kg (rait) 2,500 mg/kg (rabbit) (Calculated from LD50 of 2.5 mL/kg) Inhalative LC50/4 h mg/l (No data available) 25068-38-6 Bisphenoi-A-(epichiorohydrin) epoxy resin LD50 11,400 mg/kg (rat) 14,000 mg/kg (rabbit) (Test guideline not available) Inhalative LC50/4 h mg/l (Test species: r/a) (Toxicity not expected based on the acute oral data) 12,000 mg/kg (rabbit) 12,000				
Dermal LD50 2,500 mg/kg (rabbit) Calculated from LD50 of 2.5 mL/kg)				
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2508-38-6 Bisphenot-A-(epichlorohydrin) epoxy resin				
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Inhalative LC50/4 h mg/l (Test species: n/a) (Toxicity not expected based on the acute oral data)	Dermal	LD50	20,000 mg/kg (rabbit) (Test guideline not available)	
Oral LD50	Inhalative	LC50/4 h	mg/l (Test species: n/a) (Toxicity not expected based on the acute oral data)	
Dermal LD50 >2,000 mg/kg (rabbit) Inhalative LC50/4 h mg/l (Test species: n/a) (Toxicity not expected based on the acute oral data)			Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid	
Inhalative LC50/4 h mg/l (Test species: n/a) (Toxicity not expected based on the acute oral data) 108-46-3 Resorcinol				
Oral LD50 S10 mg/kg (rat) Reference: Oxychem (M)SDS (2015).				
Dermal LD50 S10 mg/kg (rat) Reference: Oxychem (M)SDS (2015).				
Reference: Oxychem (M)SDS (2015). 3,360 mg/kg (rabbit) Reference: Oxychem 2015 Inhalative LC50/4 h >5,600 mg/l (rat) (LC0 (8 hrs, aerosol) ≥ 2.8mg/l (622 ppm)) Reference: Oxychem 2015 Reference: Oxychem				
Dermal LD50 3,360 mg/kg (rabbit) Reference: Oxychem 2015 Inhalative LC50/4 h >5,600 mg/l (rat) (LC0 (8 hrs, aerosol) ≥ 2.8mg/l (622 ppm)) February Siloxanes and Silicones, di-Me, reaction products with silica Oral LD50 >5,000 mg/kg (rat) (test method not specified) Dermal LD50 mg/kg (Test species: n/a) (Toxicity not expected based on acute oral data) Inhalative LC50/4 h mg/l (Test species: n/a) (Toxicity not expected based on acute oral data) Inhalative LC50/4 h mg/l (Test species: n/a) (Toxicity not expected based on acute oral data) Primary irritant effect:	Oral	LD50	510 mg/kg (rat)	
Reference: Oxychem 2015 S,600 mg/l (rat) (LC0 (8 hrs, aerosol) ≥ 2.8mg/l (622 ppm)) Reference: Oxychem 2015	Dormal	I DEO		
Inhalative	Demiai	LDSU	S. Sou My My (nabbit) Reference: Oxychem 2015	
Oral LD50 >5,000 mg/kg (rat) (test method not specified) Dermal LD50 mg/kg (Test species: n/a) (Toxicity not expected based on acute oral data) Inhalative LC50/4 h mg/l (Test species: n/a) (Toxicity not expected based on acute oral data) Primary irritant effect:	Inhalative	LC50/4 h		
Dermal LD50 mg/kg (Test species: n/a) (Toxicity not expected based on acute oral data) Inhalative LC50/4 h mg/l (Test species: n/a) (Toxicity not expected based on acute oral data) Primary irritant effect: On the skin: Caustic effect on skin and mucous membranes. On the eye: Strong caustic effect. Sensitization: Sensitization possible through skin contact. 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) 108-46-3 Resorcinol NTP (National Toxicology Program) None of the ingredients is listed.	67762-90-7	7 Siloxan	es and Silicones, di-Me, reaction products with silica	
Inhalative LC50/4 h mg/l (Test species: n/a) (Toxicity not expected based on acute oral data) Primary irritant effect: on the skin: Caustic effect on skin and mucous membranes. on the eye: Strong caustic effect. Sensitization: Sensitization possible through skin contact. 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) 108-46-3 Resorcinol None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration)	Oral	LD50	>5,000 mg/kg (rat) (test method not specified)	
Primary irritant effect:				
 on the skin: Caustic effect on skin and mucous membranes. on the eye: Strong caustic effect. Sensitization: Sensitization possible through skin contact. Experience with humans: Not applicable. Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations:				
• on the eye: Strong caustic effect. • Sensitization: Sensitization possible through skin contact. • 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) 108-46-3 Resorcinol • NTP (National Toxicology Program) None of the ingredients is listed. • OSHA-Ca (Occupational Safety & Health Administration)	· Pri	imary irri	tant effect:	
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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) 108-46-3 Resorcinol • NTP (National Toxicology Program) None of the ingredients is listed. • OSHA-Ca (Occupational Safety & Health Administration)	. Se	nsitizatio	sye: Surving Causiuc errect. In: Sensitization nossible through skin contact	
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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) 108-46-3 Resorcinol • NTP (National Toxicology Program) None of the ingredients is listed. • OSHA-Ca (Occupational Safety & Health Administration)				
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) 108-46-3 Resorcinol • NTP (National Toxicology Program) None of the ingredients is listed. • OSHA-Ca (Occupational Safety & Health Administration)	The pro	oduct sho	ws the following dangers according to internally approved calculation methods for preparations:	
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) 108-46-3 Resorcinol · NTP (National Toxicology Program) None of the ingredients is listed. · OSHA-Ca (Occupational Safety & Health Administration)				
· IARC (International Agency for Research on Cancer) 108-46-3 Resorcinol · NTP (National Toxicology Program) None of the ingredients is listed. · OSHA-Ca (Occupational Safety & Health Administration)			lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.	
· IARC (International Agency for Research on Cancer) 108-46-3 Resorcinol · NTP (National Toxicology Program) None of the ingredients is listed. · OSHA-Ca (Occupational Safety & Health Administration)	· Ca	rcinoaen	ic categories	
108-46-3 Resorcinol NTP (National Toxicology Program) None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration)				_
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None of the ingredients is listed. OSHA-Ca (Occupational Safety & Health Administration)		· NTP (Na	ational Toxicology Program)	=
				_
		· OSHA-C	Ca (Occupational Safety & Health Administration)	_
None of the ingredients is listed.				

12 Ecological information

 Toxicity 	
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4246-51-9 4,7,10-Trioxatridecane-1,13-Diamene EC50 mg/kg (rabbit)

25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin

EC50 mg/kg (rabbit)

T4398-71-3 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid

EC50 mg/kg (Test species: n/a)
Based on manufacturer's test result, the substance was slightly irritating to skin (Category 3).
Reference: Hexion (M)SDS (2003).

108-46-3 Resorcinol

EC50 mg/kg (rabbit) (FHSLA method; 500mg neat substance)
Primary dermal irritation index (PDII): 4.4; the substance was therefore classified as irritating (Category 2) to rabbit skin based on the criteria.
Reference: ECHA (2012).

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

EC50 mg/kg (Test species: n/a) (Primary irritation index=0)

- Persistence and degradability No further relevant information available.

 Behavior in environmental systems:

- Benavior 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:

 Do not allow product to reach ground water, water course or sewage system.
 Danger to drinking water if even small quantities leak into the ground.





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Trade name: EP1238 Black B

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.

(Contd. of page 5)

13 Disposal considerations

· Waste treatment methods

RCRA Waste:

108-46-3 Resorcinol *U*201 ≥3-<5% 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.
 Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number	110725
· DOT, IMDG, IATA	UN2735
UN proper shipping name DOT	Amines, liquid, corrosive, n.o.s. (4,7,10-Trioxatridecane-1,
· IMDG, IATA	Diamene) AMINES, LIQUID, CORROSIVE, N.O.S. (4,7,10-Trioxatrideca
· INIDG, IATA	1,13-Diamene)
Transport hazard class(es)	,
DOT	
17 3.00 008805WE	
· Class · Label	8 Corrosive substances 8
· IMDG, IATA	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
· Class · Label	8 Corrosive substances 8
Packing group	0
· DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user	Warning: Corrosive substances
Special precautions for user Danger code (Kemler): EMS Number:	⁸ 80 F-A,S-B
Segregation groups Stowage Category	Alkalis
· Stowage Category · Segregation Code	A SG35 Stow "separated from" acids.
Transport in bulk according to Annex II of MARPO	·
Transport/Additional information:	тчос аррисаше.
· DOT	
Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· IMDG	
Limited quantities (LQ)	5L Code: E1
Excepted quantities (ÉQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
UN "Model Regulation":	IN 2735 AMINES LIGHT CORROSIVE NOS 747
on model Negulation .	UN 2735 AMINES, LIQUID, CORROSIVE, N.O.S. (4,7, TRIOXATRIDECANE-1,13-DIAMENE), 8, III



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Trade name: EP1238 Black B

(Contd. of page 6)

Regulatory information	and the second second
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):	
None of the ingredients is listed.	
· SARA Section 311/312 (Hazardous Chemical Inventory Reporting)	
25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin	A, C ≥20-<
74398-71-3 1, 2, 3-Propanetriyl ester of 12-(oxiranylmethoxy)-9-octadecanoic acid	A, C 10-2
 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 8 (b) Inventory:	
All ingredients are listed.	
Proposition 65	
· Chemicals known to cause cancer:	
106-89-8 1-chloro-2,3-epoxypropane	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
106-89-8 1-chloro-2,3-epoxypropane	
· 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)	
108-46-3 Resorcinol	
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
· International Regulation Lists · GHS label elements GHS label elements	
REACh - Substances of Very High Concern (SVHC) List:	
None of the ingredients is listed.	
· 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 Development Department
 Contact: msds@resinlab.com
 Date of preparation / last revision 03/14/2018 / 7
 * Data compared to the previous version altered.