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Safety Data Sheet acc. to OSHA HCS Printing date 09/15/2017 1 Identification Product identifier Trade name: EP1200 BLACK B Application of the substance / the mixture Epoxy Hardener Details of the supplier of the safety data sheet Manufacturer/Supplier: ResinLab, LLC N109 W13300 Ellsworth Drive Germantown, WI 53022 1-877-259-1669 *Www.resinlab.com Information Department:* Product Safety Department: msds@resinlab.com *Emergency Telephone Number:* North America - Chemtrec: 1-800-424-9300 (24 hours) International - Chemtrec: 01-703-527-3887 (24 hours) 2 Hazard(s) identification Classification of the substance or mixture Skin Corr. 1B H314 Causes severe skin burns and eye damage. Skin Sens. 1 H317 May cause an allergic skin reaction. Repr. 2 H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to the stomach and the gastro-intestinal tract through prolonged or repeated exposure. Route of STOT RE 2 exposure: Oral. · Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS05 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: 4-Nonylphenol, branched 1,4-Bis(aminocyclohexyl)methane Poly(oxypropylene)diamine H314 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H361 Suspected of damaging fertility or the unborn child. H373 May cause damage to the stomach and the gastro-intestinal tract through prolonged or repeated exposure. Route of exposure: Oral. Hazard statements Orâl. Precautionary statements Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. 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 If in eyes: 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. Get medical advice/attention if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA System · NFPA ratings (scale 0 - 4) Health = 3 Fire = 1 Reactivity = 0NFPA special hazards (water reactivity and oxidizing property): None 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.

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· vPvB: Not applicable.

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Chemical characterization:	Mixtures		
 Dangerous components 	S:		
CAS: 1344-28-1 EINECS: 215-691-6 RTECS: BD120000	Aluminum oxide		60-70%
CAS: 84852-15-3 EINECS: 284-625-5 Index number: 601-053-00-8	4-Nonylphenol, branched	Repr. 2, H361 Skin Corr. 1B, H314; Eye Dam. 1, H318 Aquatic Chronic 1, H410 Acute Tox. 4, H302	10-20%
CAS: 9046-10-0	Poly(oxypropylene)diamine	Skin Corr. 1C, H314; Eye Dam. 1, H318 Aquatic Chronic 2, H411 Aquatic Acute 3, H402	2.5-5%
CAS: 1761-71-3 EINECS: 217-168-8	1,4-Bis(aminocyclohexyl)methane	STOT RE 2, H373 Skin Corr. 1B, H314 Aquatic Chronic 2, H411 Acute Tox. 4, H302; Skin Sens. 1, H317	1-2.5%

4 First-aid measures

Description of first aid measures

- General information: Keep warm, position comfortably and cover well. Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident. After inhalation:
- Remove victim from exposure to fresh air. Keep person at rest. Provide oxygen if person is not breathing. Supply fresh air and if symptoms occur call for a doctor.

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

- After skin contact: Immediately wash with water and soap and rinse thoroughly. Remove all contaminated clothing and wash before reuse.
- Get medical attention
- After eye contact:
- Immediately flush opened eyes with water for 5 minutes, then remove contact lenses if present, continue flushing for at least another 15 minutes
- Do not put any ointments, oils or medication in eyes without specific instructions.
- Do not put any ointments, ous or medication in eyes will 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 medical treatment. If vomiting occurs spontaneously, keep victim's head by

- vomiting occurs spontaneously, keep victim's head below hips to prevent aspiration of liquid into lungs.
- Information for doctor:
 - Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed 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 dry chemical Fire-extinguishing powder Carbon dioxide Special hazards arising from the substance or mixture Will not burn unless preheated. In case of fire, the following can be released: Nitrogen oxides (NOX) ammonia gas may be liberated at high temperatures. During heating or in case of fire poisonous gases are produced. Carbon dioxide (CO₂) and Carbon monoxide (CO) Advice for firefighters • Protective equipment: Mouth respiratory protective device. If employees are expected to fight fires, they must be trained and equipped as stated in the OSHA fire brigades standard (29 CFR 1910.156). As with any fire, wear positive-pressure self-contained breathing apparatus and full protective gear that are NIOSH approved.

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6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
 Mount respiratory protective device.
 Wear protective equipment. Keep unprotected persons away.
 Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use.
 Environmental precautions:
 Inform respective authorities in case of seepage into water course or sewage system.
 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.
 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.
 Output and bondle recentedle with care Open and handle receptacle with care. Prevent formation of aerosols. Keep away from incompatible material(s). Avoid any release into the environment. For industrial or professional use only Do not breathe dust/fumes/mist/vapor/spray. Avoid contact with eyes, skin and clothing. Keep away from heat,sparks, flames and ignition sources. Observe all the personal protection requirements in Section 8.

· Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles:
 Provide ventilation for receptacles.
 Keep stored in accordance with local, regional, national, and international regulations.

8 Exposure controls/personal protection
· Control parameters
Components with limit values that require monitoring at the workplace:
1344-28-1 Aluminum oxide
ACGIH Long-term value: 1 mg/m ³ respirable fraction as Aluminum
OSHA Long-term Value: 15 TWA total dust mg/m ³
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-lefth value. 300 mg/m²
Additional Occupational Exposure Limit values for possible nazards during processing: None.
 Exposure controls If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Personal protective equipment: General protective and hygienic measures: Be sure to clean skin thoroughly after work and before breaks. Keep away from foodstuffs, beverages and feed. Immediately remove all solided and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Pregnant women should avoid direct skin contact with this product.
 Personal Protective Equipment (PPE) Breathing equipment: Sufficient ventilation in pattern and volume should be provided in order to maintain air contaminant levels below recommended exposure limits. Use a NIOSH approved air-purifying organic vapor respirator if occupational limits are exceeded. For emergency situations confined space use, or other conditions where exposure limits may be greatly exceeded, use an approved air supplier 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 (Contd. on page 4)

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• Material of gloves	stant gloves	(Contd. of page 3)
Eye protection: Safety Glasses wi Body protection: Appropriate Limitation and supervision of exposure The Engineering measures or controls, an information please consult the correspond	th side shields chemical resistant clothing. into the environment d PPE recommendations al ing requirements under OSP	re only guidelines and may not apply to every situation. For additional
	ing requirements under OOI	IA 29 OF N 1910.94 99, and 29 OF N 1910.192-190.
0. Physical and chamical presenti		
9 Physical and chemical propertie	25	
Information on basic physical and chem General Information Appearance: Form: Color: Odor:	hical properties Liquid White Amine-like	
· Odor threshold:	Not determined.	
· pH-value: · Change in condition · Melting point/Melting range: · Boiling point/Boiling range:	Not determined. Undetermined. >200 °C (>392 °F)	
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 	1.99 g/cm³ (16.61 lbs/gal, Not determined. Not determined. Not determined.)
Solubility in / Miscibility with Water:	Not miscible or difficu	Ilt to mix.
Partition coefficient (n-octanol/wate	r): Not determined.	
Viscosity: Dynamic: Kinematic: VOC content:	Not available. Not available. 0.00 % 0.0 g/l / 0.00 lb/gl	

10 Stability and reactivity

· Reactivity Not a regulated physical hazard under GHS.

- 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. Reacts with water and acids.
 Conditions to avoid Keep away from heat, sparks, flame and any other ignition sources.
 Incompatible materials: Metals Oxidizing agents ethylene oxide and chlorine trifluoride Strong bases Strong reducing agents

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Acids • **Hazardous decomposition products:** Possible in traces. Refer to section 5. • **Additional information:** As long as the prescribed application concentrations are maintained there is no danger that stable emulsions will form.

Acute	toxicity:	
· LI	D/LC50 va	lues that are relevant for classification:
1344-28-1	Aluminu	m oxide
Oral	LD50	>5,000 mg/kg (rat) (OECD IG 401)
Dermal	LD50	mg/kg (Test species: n/a) (Toxicity not expected based on acute oral data)
Inhalative	LC50/4 h	7.6 mg/l (read across from 101-68-8) (not given)
84852-15-	3 4-Nony	pnenol, branched
Urai	LDSU	Reference Vendar SDS (2015)
Dermal	LD50	2.031 mg/kg (rabbit)
		Vendor SDS 2015
Inhalative	LC50/4 h	mg/l (mouse) (Non-toxic; LC50 exceeded the satured vapor value)
9046-10-0	Poly(oxy	propylene)diamine
Oral	LD50	2,885 mg/kg (rat) (similar to OECD guideline 401) Reference: Vendor SDS (2015).
Dermal	LD50	2,980 mg/kg (rabbit) (similar to OECD guideline 402) Reference: Vendor SDS (2015).
Inhalative	LC50/4 h	mg/l (read across from 101-68-8) (Exposure Time 8h)
1761-71-3	1,4-Bis(a	minocyclohexyl)methane
		Calculăted from LC50 (females) of 350 mg/kg bw and LC50 (males) of 480 mg/kg bw. 100 - 1250 mg/kg (rat) (no test details available) 600 mg/kg (mouse) (no test details available) When considering the weight of all evidence, 380 mg/kg was chosen for classification. Reference: ECHA (2011).
Dermal	LD50	2,110 mg/kg (rabbit) (EPA OPP 81-2; semi-occlusive) LD0(EPA OPP 81-2)>1000 mg/kg; no death occurred at 1000 mg/kg. Reference: ECHA (2011).
Inhalative	LC50/4 h	mg/l (mouse) (LC0/6h >0.4wt%; no death occurred)
Se Exper Additi The pi Corros Irritani Swalk	• on the s • on the e ensitizatio ional toxic roduct sho sive t owing will l	 Iteration to the construction of the construction of
. C	arcinonen	ic categories
0	IARC /II	ne rategional Agency for Research on Cancer)
112945-52	2-5 silicon	
		alignal Toxicology Program)
None of th	ne inaredie	interior int
		The following stores Seter & Health Administration
None of th	· USRA-U	
	ie iligieule	

· Toxicity
· Aquatic toxicity:
1344-28-1 Aluminum oxide
EC50 mg/kg (rabbit) (OECD TG 404) Erythema score: 0.166/4 (Max. 4) in 2 out of 12 rabbits Edema score: 0 (Max. 4) Based on the classification criteria, the substance was not irritating to skin. Reference: ECHA (2011). Cabot SDS (2014)
84852-15-3 4-Nonylphenol, branched
EC50 mg/kg (rabbit) (Directive 84/449/EEC B4; Post-exposure: 8 days) All tested animals showed signs of erythema, edema, and eschar which were not fully reversible within 8 days.Reference: IUCLID Dataset (2000).
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9046-10-0 Poly(oxypropylene)diamine EC50 mg/kg (rabbit) (similar to OECD guideline 404)	
Reference: Vendor SDS 2015 1761-71-3 1.4-Bis(aminocyclohexyl)methane	
EC50 mg/kg (rabbit) (US DOT test and Draize score sys: Overall irritation: 5.6/8 (Max. 8; mean score of all a Overall irritation: 8/8 (Max. 8; mean score of all an The substance was therefore classified as corrosiv Reference: ECHA (2011).	tem; occlusive) animals; time point: 1 hour) imals; time point: 24+48+72+120+168 hours) /e to rabbit skin (Category 1).
 Persistence and degradability No further relevant inform Other information: The product is easily biodegrada Behavior in environmental systems: Bioaccumulative potential No data available. Mobility in soil No further relevant information available 	nation available. ble.
Additional ecological information: The product is non-i General notes: Water hazard class 3 (Self-assessment): extremely h Do not allow product to reach ground water, water co Danger to drinking water if even extremely small qual Destruction of the programmer of the product o	apid degradable, and low or not nignly bloaccumulative. azardous for water urse or sewage system, even in small quantities. ntities leak into the ground.
• PBT : None of the ingredients is listed. • VPWB : None of the ingredients is listed. • Other adverse effects No further relevant information av	railable.
13 Disposal considerations	
 Waste treatment methods Recommendation: Must be specially treated adhering to official regulation Must not be disposed of together with household garle Uncleaned packagings: Recommendation: Dispose of according to your location 	ons. bage. Do not allow product to reach sewage system. al waste regulations.
14 Transport information	
UN-Number DOT, IMDG, IATA	UN3267
UN proper shipping name DOT IMDG	Corrosive liquid, basic, organic, n.o.s. (Nonylphenol) Corrosive liquid, basic, organic, n.o.s. (Nonylphenol) CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (Nonylphenol, Poly(oxyropylene)diamine). MARINE POLLUTANT
	CÓŘRÓSIVÉ LIQUID, BAŠIC, ORGANIC, N.O.S. (Nonylphenol, Poly(oxypropylene)diamine)
Transport hazard class(es) DOT	
· Class · Label	8 Corrosive substances 8
· IMDG	
· Class · Label	8 Corrosive substances 8
· IATA	
÷	
· Class · Label	8 Corrosive substances 8
Class Label Packing group DOT, IMDG, IATA	8 Corrosive substances 8 III



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 Special precautions for user Danger code (Kemler): EMS Number: Segregation groups Stowage Category Stowage Code Segregation Code 	Warning: Corrosive substances 80 F-A,S-B 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 	e Not applicable.
· Transport/Additional information:	
· DOT Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· Remarks:	Special marking with the symbol (fish and tree).
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 3267 CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S.

15 Regulatory information

SARA Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
• SARA Section 313 (Specific toxic chemical listings):	
84852-15-3 4-Nonylphenol, branched	10-2
SARA Section 311/312 (Hazardous Chemical Inventory Reporting)	
84852-15-3 4-Nonylphenol, branched	A 10-2
9046-10-0 Poly(oxypropylene)diamine	A 2.5-
1761-71-3 1,4-Bis(aminocyclohexyl)methane	A, C 1-2.
Hazard Abbreviations for SARA 311/312	
A - Acute Health Hazard C - Chronic Health Hazard	
F - Fire Hazard	
R - Reactive Hazard	
S - Suaden Release of Pressure Hazard	
· ISCA (TOXIC Substances Control Act):	
04652-15-514-Notifyphetiol, branched	
John Tol I oly oxy propyetie Juannie	
· Proposition 65	
Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
None of the ingredients is listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients is listed.	
. Carcinonenic categories	
FPA (Environmental Protection Agency)	
None of the independent is listed.	
TI V (Threshold Limit Value established by ACGIH)	
None of the incredients 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 incredients are listed	
GHS label elements GHS label elements	
National regulations:	
Japanese Existing and New Chemical Substance List:	
All ingredients are listed.	
· Korean Existing Chemical Inventory:	
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· European Pre-registered substances:	
All ingredients are listed.	
· EINECS List:	
1344-28-1 Aluminum oxide	
84852-15-3 4-Nonylphenol, branched	
1761-71-3 1,4-Bis(aminocyclohexyl)methane	
112945-52-5 silicon dioxide amorphous	
· ELINCS List:	
None of the ingredients is listed.	
· REACh - Substances of Very High Concern (SVHC) List:	
84852-15-3 4-Nonylphenol, branched	10-20%
Restriction of Hazardous Substances Directive (RoHS) list:	
None of the ingredients is listed.	
Chemical safety assessment: A Chemical Safety Assessment has not been carried out.	

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 09/15/2017 / 3 * Tata compared to the previous version altered.

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