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· **Product Identifier**
· **Trade Name: EP1295NUL BLACK A**
· **Application of the Substance or Mixture:** Epoxy Resin

· **Details of the Supplier of the Safety Data Sheet (SDS)**
· **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: 01-703-527-3887 (24 hours)

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2 Hazard(s) identification

· **Hazard Classification**

Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2A	H319	Causes serious eye irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Repr. 1	H360	May damage fertility or the unborn child.

· **Label Elements**
· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Pictogram(s)**

GHS07 GHS08

· **Signal Word** Danger

· **Hazard-determining Component(s)**
Bisphenol-A-(epichlorohydrin) epoxy resin
Butylphthalate
Ammonium Polyphosphate
Alkyl (C12, C14) glycidyl ether
1,1,1-trimethylolpropane triacrylate
Aluminum oxide
· **Hazard statements**
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H360 May damage fertility or the unborn child.

· **Precautionary statements**
Avoid breathing dust/fume/gas/mist/vapors/spray
Wear protective gloves/protective clothing/eye protection/face protection.
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Wash contaminated clothing before reuse.
IF exposed or concerned: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
IF ON SKIN: Wash with plenty of water.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

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

Health = 2
Fire = 1
Reactivity = 0

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

· **HMIS System**
· **HMIS Ratings (scale 0 - 4)**

Health = *2
Fire = 1
Reactivity = 0

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

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· ***vPvB:*** *Not applicable.*

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3 Composition/information on ingredients

· ***Chemical Characterization: Mixtures***

· ***Composition/Information on Ingredients***

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	30-40%
CAS: 84-74-2 EINECS: 201-557-4 Index Number: 607-318-00-4 RTECS: TI 0875000	Butylphthalate Repr. 1B, H360	5-<10%
CAS: 68609-97-2 EINECS: 271-846-8 Index Number: 603-103-00-4	Alkyl (C12, C14) glycidyl ether Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	5-<10%
CAS: 15625-89-5 EINECS: 239-701-3 Index Number: 607-111-00-9 RTECS: AT 4810000	1,1,1-trimethylolpropane triacrylate Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	5-<10%
CAS: 1333-86-4 EINECS: 215-609-9 RTECS: FF5800000	Carbon black	0.1-1%
CAS: 67762-90-7 EC number: 614-122-2	Siloxanes and Silicones, di-Me, reaction products with silica	0.1-1%

· ***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.

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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***
Remove all contaminated clothing and wash before reuse.
Wash contaminated skin with water and soap and rinse thoroughly.
Seek medical treatment in case of complaints.

· ***After Eye Contact***
Immediately bathe eyes for 15 minutes under running water.
Immediately remove contact lenses if present. Continue rinsing.
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.
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.

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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 (CO_2).
Water spray or water fog.

· ***Unsuitable Extinguishing Agent(s)*** *Water with full jet*

· ***Firefighting Procedures*** *Immediately withdraw all personnel from the area in case of rising sound from venting safety device.*

· ***Special Hazards Arising in Fire***
Will not burn unless preheated.
May spontaneously polymerize during fire or high temperatures generating massive heat and pressure.
In case of fire, following can be released:
Phenolic compounds
Carbon dioxide (CO_2) and Carbon monoxide (CO)
Nitrogen oxides
Phosphorus oxides

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· **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** Caution! Finely dispersed substance may form explosive mixtures in air.

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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**
Keep away from sewage system or other water courses; do not penetrate ground/soil.
Inform respective authorities in case of any seepage to the environment.

· **Cleaning Up Methods**
Ensure adequate ventilation.
Eliminate all ignition sources.
Keep unauthorized personnel away.
Absorb residues with liquid-binding materials.
Avoid confined spaces, such as sewers, because of the possibility of an explosion.
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.

· **Additional Information** No further relevant information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
21645-51-2	Aluminum hydroxide	8.7 mg/m3
25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin	90 mg/m3
84-74-2	Butylphthalate	15 mg/m3
1333-86-4	Carbon black	9 mg/m3
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica	120 mg/m3

· **PAC-2:**		
21645-51-2	Aluminum hydroxide	73 mg/m3
25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin	990 mg/m3
84-74-2	Butylphthalate	1,600 mg/m3
1333-86-4	Carbon black	99 mg/m3
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica	1,300 mg/m3

· **PAC-3:**		
21645-51-2	Aluminum hydroxide	440 mg/m3
25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin	5,900 mg/m3
84-74-2	Butylphthalate	9300* mg/m3
1333-86-4	Carbon black	590 mg/m3
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica	7,900 mg/m3

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7 Handling and storage

· **Handling**
· **Precautions for Safe Handling**
Keep away from incompatible material(s).
Avoid any release 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.

· **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.

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8 Exposure controls/personal protection

· **Engineering Measures or Controls**
· **Exposure Limit Values that Require Monitoring at the Workplace**
The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
At this time, the other constituents have no known exposure limits.

84-74-2 Butylphthalate	
PEL	Long-term value: 5 mg/m³
REL	Long-term value: 5 mg/m³
TLV	Long-term value: 5 mg/m³

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15625-89-5 1,1,1-trimethylolpropane triacrylate	
WEEL	Long-term value: 1 mg/m³ Skin
1333-86-4 Carbon 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
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

· **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**
· **General Protective and Hygienic Measures**
Use of this material at elevated temperatures or aerosol/spray applications may require additional precautions.
Avoid any contact with 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 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**
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**
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:** Liquid
· **Color:** Black
· **Odor:** Mild epoxy odor
· **Odor Threshold:** Not determined.

· **PH-Value:** Not determined.

· **Change in Condition:**
· **Melting Point:** Not determined.
· **Boiling Point:** Not determined.
· **Flash Point:** >149 °C (>300 °F)
· **Decomposition Temperature:** Not determined.
· **Auto-ignition Temperature:** Not determined.
· **Flammability:** Not determined.
· **Explosion:** Not determined.
· **Explosion Limits:**
· **Lower:** Not determined.
· **Upper:** Not determined.

· **Vapor Pressure:** Not determined.
· **Vapor Density:** not determined
· **Density at 20 °C (68 °F):** 1.46 g/cm³ (12.184 lbs/gal)
· **Solubility in or Miscibility with**
· **Water:** Not miscible or difficult to mix.
· **Segregation coefficient LogPow (n-octanol/water):** Not determined.
· **Viscosity:**
· **Dynamic:** Not determined.
· **Kinematic:** Not determined.

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10 Stability and reactivity

· **Physical Hazard(s)** Not a regulated reactive or physical hazard under GHS.
· **Hazardous Reactivity and Chemical Stability** May polymerize during high temperatures.

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· ***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 spontaneously polymerize during high temperatures, in contact with incompatible material(s) or exposed to radiation which can generate massive heat/pressure.

· ***Incompatible Material(s)***
Oxidizing agents
Bases (Alkalis)
Strong reducing agents
Mercaptans
Acids
Amines

· ***Hazardous Decomposition Product(s)***
Thermally decomposes during fire or very high heat. See Section 5 for fire hazards evolved during thermal decomposition.

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11 Toxicological information

· ***Information on toxicological effects***
· ***Acute Toxicity***
· ***LD/LC50 values that are relevant for classification:***
While not a classified acute oral hazard, the product may cause the following symptom(s):
diarrhea
abnormal pain, headache, nausea, vomiting, drowsiness
Not a classified acute oral hazard.

21645-51-2 Aluminum hydroxide		
Oral	*LD50*	*(rat) (LD0(OECD TG 401)>5000mg/kg: no death occurred)*
Dermal	*LD50*	*(Test species: n/a) (Toxicity not expected based on acute oral data)*
Inhalative	*LC50/4 h*	*(Test species: n/a) (Toxicity not expected as a wetted form)*
25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin		
Oral	*LD50*	*11400 mg/kg (rat)*
Dermal	*LD50*	*20000 mg/kg (rabbit) (Test guideline not available)*
Inhalative	*LC50/4 h*	*(Test species: n/a) (Toxicity not expected based on the acute oral data)*
68333-79-9 Ammonium Polyphosphate		
Oral	*LD50*	*5625 mg/kg (rat)* *LD0 (OECD TG 425) ≥ 2000mg/kg; no death occurred.* *All animals survived, gained weight and appeared active and healthy throughout the study period.* *Reference: SIDS Dossier (2007).*
Dermal	*LD50*	*(rat) (LD0 (OECD TG 402) ≥ 5000mg/kg; no death occurred)* *All animals survived, gained weight and appeared active and healthy throughout the study period.* *Reference: SIDS Dossier (2007).*
Inhalative	*LC50/4 h*	*(Test species: n/a) (Toxicity not expected due to wetted form)*
84-74-2 Butylphthalate		
Oral	*LD50*	*>5000 mg/kg (read across from 101-68-8) (OECD 401)*
Dermal	*LD50*	*>5000 mg/kg (rabbit)*
Inhalative	*LC50/4 h*	*>15.68 mg/l (read across from 101-68-8) (Toxicity not anticipated under normal conditions)* *LC50/4 hours (mists; rat) > 15.68 mg/L;* *LC50/4 hours (mists; mouse) = 17.68 mg/l (Calculated from LC50/2 hours of 25 mg/L)* *Based on the classification criteria, the substance was not classified as an acute inhalative hazard.* *Reference: IUCLID Dataset (2000).*
68609-97-2 Alkyl (C12, C14) glycidyl ether		
Oral	*LD50*	*26800 mg/kg (rat) (Male rats; By calculation from 30.1 ml/kg)*
Dermal	*LD50*	*(Test species: n/a) (Toxicity not expected based on acute oral data)*
Inhalative	*LC50/4 h*	*(rat) (Non-toxic; LC50 exceeded the satured vapor value)*
15625-89-5 1,1,1-trimethylolpropane triacrylate		
Oral	*LD50*	*5700 mg/kg (rat) (Calculated from 5.19 mL/kg)* *Reference: ChemID Full Record (2011).*
Dermal	*LD50*	*2500 mg/kg (mouse)* *Reference: HSNO CCID (2011).*
Inhalative	*LC50/4 h*	*(Test species: n/a) (None or low toxicity based on the acute oral data)*

· ***Specific symptoms in biological assay:*** *Not a classified acute dermal hazard.*
· ***Primary irritant effect:***
cough
dizziness or lightheadedness
headache
seizures
shortness of breath
Not a classified acute inhalative hazard.
No further relevant information; classification is not possible.

· ***on the skin:*** *Irritates skin and mucous membranes.*

· ***on the eye:*** *Causes eye irritation.*

· ***Sensitization:*** *Possible sensitization upon contact with skin.*

· ***Experience with humans:*** *Not applicable.*

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· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

· **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
1333-86-4	Carbon black	2B

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

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

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12 Ecological information

· **Toxicity**

· Aquatic toxicity:	
21645-51-2 Aluminum hydroxide	
EC50	not irritating mg/kg (rabbit) (OECD TG 404; semiocclusive; 4hr-contact; undiluted)
25068-38-6 Bisphenol-A-(epichlorohydrin) epoxy resin	
EC50	irritating mg/kg (rabbit)
68333-79-9 Ammonium Polyphosphate	
EC50	not irritation mg/kg (rabbit) (24hr-contact; Draize score: 0 (Max. 8)) The substance caused slight irritation in an FDA-Richtlinie test; another study using 90% concentrated substance led no irritating effects. Meanwhile, it was not irritating through an 24-hr exposure in rabbits. When considering the weight of all evidence, the substance was not determined to be irritating to rabbit skin. Reference: IUCLID Dataset (2000).
84-74-2 Butylphthalate	
EC50	no irritation mg/kg (rabbit)
68609-97-2 Alkyl (C12, C14) glycidyl ether	
EC50	moderately mg/kg (rabbit) (EPA OTS 798.4470)
15625-89-5 1,1,1-trimethylolpropane triacrylate	
EC50	irritating mg/kg (rabbit) (Skin irritation: 5/8 (Max. 8)) Skin irritation: 5/8 (Max. 8; mean score of all treated animals). The substance was classified as irritating to rabbit skin (Category 2) based on the classification criteria. Reference: Cognis (M)SDS (2007) and IUCLID Dataset (2000).

· **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
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.
· **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.

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13 Disposal considerations

· **Waste treatment methods**

· RCRA Waste:			
84-74-2	Butylphthalate	U069	5-<10%

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

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

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14 Transport information

· UN-Number · DOT, ADR, IMDG, IATA	UN3082
· UN Proper Shipping Name · DOT	Environmentally hazardous substance, liquid, N.O.S. (Bisphenol-A-(epichlorohydrin)epoxy resin) Environmentally hazardous substances, liquid, n.o.s. (Bisphenol-A-(epichlorohydrin) epoxy resin)

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· **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A-(epichlorohydrin) epoxy resin), MARINE POLLUTANT

· **IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Bisphenol-A-(epichlorohydrin) epoxy resin)

· **Transport hazard class(es)**

· **DOT**

· **Class** 9 Miscellaneous dangerous substances and articles
· **Label** 9

· **ADR**

· **Class** 9 (M6) Miscellaneous dangerous substances and articles
· **Label** 9

· **IMDG, IATA**

· **Class** 9 Miscellaneous dangerous substances and articles
· **Label** 9

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

· **Environmental Hazards:**
· **Marine Pollutant:** Yes
Symbol (fish and tree)
· **Special Marking (ADR):** Symbol (fish and tree)
· **Special Marking (IATA):** Symbol (fish and tree)

· **Special Precautions:** Warning: Miscellaneous dangerous substances and articles
· **Danger Code (Kemler):** 90
· **EMS Number:** F-A,S-F
· **Stowage Category** A

· **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:
On cargo aircraft only:
· **Remarks:** Special marking with the symbol (fish and tree).

· **ADR**
· **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

· **IMDG**
· **Limited quantities (LQ)** 5L
· **Excepted quantities (EQ)** Code: E1
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":** UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (BISPHENOL-A-(EPICHLOROHYDRIN) EPOXY RESIN), 9, III

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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)**

84-74-2	Butylphthalate	5-<10%

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

25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin	A, C	30-40%
84-74-2	Butylphthalate	C	5-<10%
15625-89-5	1,1,1-trimethylolpropane triacrylate	A, R	5-<10%
1333-86-4	Carbon black	A, C	0.1-1%

· **Hazard Abbreviations for SARA 311/312**
A - Acute Health Hazard
C - Chronic Health Hazard
F - Fire Hazard
R - Reactive Hazard
S - Sudden Release of Pressure Hazard

· **TSCA (Toxic Substances Control Act)**
All ingredients are listed.

· **Proposition 65**

· **Chemicals Known to Cause Cancer**

1333-86-4	Carbon black

· **Chemicals Known to Cause Reproductive Toxicity for Females**

84-74-2	Butylphthalate

· **Chemicals Known to Cause Reproductive Toxicity for Males**

84-74-2	Butylphthalate

· **Chemicals Known to Cause Developmental Toxicity**

84-74-2	Butylphthalate

· **Carcinogenic Categories**

· **EPA (Environmental Protection Agency)**

84-74-2	Butylphthalate	D

· **TLV (Threshold Limit Value Established by ACGIH)**

1333-86-4	Carbon black	A4

· **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.

· **Japanese Existing and New Chemical Substance List:**
All ingredients are listed.

· **Korean Existing Chemical Inventory:**
All ingredients are listed.

· **European Pre-registered substances:**
All ingredients are listed.

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

84-74-2	Butylphthalate	5-<10%

· **Restriction of Hazardous Substances Directive (RoHS) list:**
None of the ingredients is listed.

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department Issuing (M)SDS:** Product 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
ChV: Chronic Value
DOT: US Department of Transportation
DSL: Canada Domestic Substance List
ECHA: European Chemicals Agency's Dissemination portal with information on chemical substances registered under REACH
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 Chemical Safety Cards

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IMDG: 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
LC50/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
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
SIDS SIAM(R): SIDS Initial Assessment Meetings(Reports)
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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