

Safety Data Sheet

acc. to OSHA HCS

Printing date 06/01/2017

Reviewed on 06/01/2017

1 Identification

- **Product identifier**
 - **Trade name:** EP1294 A
 - **Application of the substance / the mixture** Epoxy Resin
- **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 Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2A H319 Causes serious eye irritation.
Skin Sens. 1 H317 May cause an allergic skin reaction.
Muta. 2 H341 Suspected of causing genetic defects.

- **Label elements**

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



GHS07 GHS08

- **Signal word** Warning

- **Hazard-determining components of labeling:**
Phenol, polymer with formaldehyde, glycidyl ether
o-Cresyl glycidyl ether

- **Hazard statements**
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.

- **Precautionary statements**
Do not handle until all safety precautions have been read and understood.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash thoroughly after handling.
Use only outdoors or in a well-ventilated area.
Contaminated work clothing must not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of water.
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 exposed or concerned: Get medical advice/attention.
Get medical advice/attention if you feel unwell.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
Collect spillage.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**
14.6 % of the mixture consists of component(s) of unknown toxicity.

- **Classification system:**

- **NFPA System**
- **NFPA ratings (scale 0 - 4)**



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

- **HMIS System**

- **HMIS-ratings (scale 0 - 4)**
- | | | |
|------------|---|----------------|
| HEALTH | 2 | Health = 2 |
| FIRE | 1 | Fire = 1 |
| REACTIVITY | 0 | Reactivity = 0 |

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

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Dangerous components:

CAS: 28064-14-4	Phenol, polymer with formaldehyde, glycidyl ether Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	40-50%
CAS: 65997-17-3 EINECS: 266-046-0	Fibrous Glass	10-20%
CAS: 2210-79-9 EINECS: 218-645-3 Index number: 603-056-00-X RTECS: TZ3700000	o-Cresyl glycidyl ether Muta. 2, H341 Aquatic Chronic 2, H411 Skin Irrit. 2, H315; Skin Sens. 1, H317 Eye Dam. 2B, H320; Aquatic Acute 2, H401	10-20%
CAS: 13560-89-9 EINECS: 236-948-9	Bis(hexachlorocyclopentadieno) STOT RE 2, H373	2.5-5%
CAS: 1309-64-4 EINECS: 215-175-0 Index number: 051-005-00-X	Diantimony trioxide Carc. 2, H351 Aquatic Acute 3, H402; Aquatic Chronic 3, H412	2.5-5%
CAS: 67762-90-7 EC number: 614-122-2	Siloxanes and Silicones, di-Me, reaction products with silica	0.1-1%
CAS: 2530-83-8 EINECS: 219-784-2 RTECS: VV 4025000	Glycidyoxypropyltrimethoxysilane Skin Corr. 1A, H314	0.1-<1%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-01-8 RTECS: TZ 4300000	isobutane Flam. Gas 1, H220 Press. Gas, H280	0.1-1%
CAS: 7440-38-2 EINECS: 231-148-6 Index number: 033-001-00-X RTECS: CG 0525000	arsenic Acute Tox. 3, H301; Acute Tox. 3, H331 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0-<0.025%

· 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:

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.
If skin irritation or rash occurs, get medical advice/attention.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
Remove contact lenses if present and easy to do so; continue rinsing.
If symptoms develop seek medical attention.

· After swallowing:

If victim is unconscious; never give anything by mouth.
Rinse out mouth and then drink plenty of water.

· 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

After frequent or high intense exposure, the following medical tests are recommended:
Check section 11 Toxicological Information for further relevant information.

5 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents:

Limestone powder
Use fire fighting measures that suit the environment.

· Special hazards arising from the substance or mixture

Will not burn unless preheated.
In case of fire, the following can be released:
Sulphur dioxide (SO₂)
Aldehydes

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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.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

- Wear protective clothing.

- Do not breathe gas, vapors, dusts or mists if their inhalable particles occur during use.

- **Environmental precautions:**

- Do not allow product to reach sewage system or any water course.

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

- **Methods and material for containment and cleaning up:**

- For large spills: provide diking or containment to minimize spreading. If possible pump and store material in appropriate container.

- For small spills: Ventilate and wash area. Collect spills and absorbant material in appropriate container.

- Ensure adequate ventilation.

- Allow molten product to cool.

- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

- Dispose contaminated material as waste according to Item 13.

7 Handling and storage

- **Handling:**

- **Precautions for safe handling**

- Do not breathe dust created by cutting, sanding, grinding or machining.

- Ensure good ventilation/exhaustion at the workplace.

- 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:**

65997-17-3 Fibrous Glass	
ACGIH TLV	Long-term value: 10 mg/m ³
OSHA PEL	Long-term value: 15 mg/m ³
	Total dust
13560-89-9 Bis(hexachlorocyclopentadieno)	
TWA	Short-term value: 1 mg/m ³
	MFG recommendation 8 hour TWA
1309-64-4 Diantimony trioxide	
TEEL-1	Short-term value: 1.8 mg/m ³
TEEL-2	Short-term value: 4.0 mg/m ³
TEEL-3	Short-term value: 59.9 mg/m ³
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/m ³
2530-83-8 Glycidylxypropyltrimethoxysilane	
DCC OEL TWA	Short-term value: 0.5 mg/m ³
75-28-5 isobutane	
TLV	Short-term value: 2370 mg/m ³ , 1000 ppm
	(EX)
7440-38-2 arsenic	
PEL	Long-term value: 0.5* 0.01** mg/m ³
	as As; *organic**inorg. compds.; 29 CFR 1910.1018
REL	Ceiling limit value: 0.002 mg/m ³
	as As; 15min; See Pocket Guide App. A

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TLV	Long-term value: 0.01 mg/m ³ as As; BEI
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Ingredients with biological limit values:

7440-38-2 arsenic

BEI	35 µg As/L Medium: urine Time: end of workweek Parameter: Inorganic arsenic plus methylated metabolites (background)
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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.

If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment:

General protective and hygienic measures:

Be sure to clean skin thoroughly after work and before breaks.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Avoid contact with the 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 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.

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



Chemical resistant gloves

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.

9 Physical and chemical properties

Information on basic physical and chemical properties

General Information

Appearance:

· Form:	Pasty
· Color:	Yellow
· Odor:	Pungent
· Odor threshold:	Not determined.

· pH-value: Not determined.

Change in condition

· Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	Undetermined.

· Flash point: >110 °C (>230 °F)

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: Not determined.

· Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

Explosion limits:

· Lower:	Not determined.
· Upper:	Not determined.

· Vapor pressure at 20 °C (68 °F): < 1.3 hPa (< 1 mm Hg)

· Vapor Density: not determined

· Density at 20 °C (68 °F): 0.56 g/cm³ (4.673 lbs/gal)

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<ul style="list-style-type: none"> · Relative density · Vapor density · Evaporation rate 	Not determined. Not determined. Not determined.
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<ul style="list-style-type: none"> · Solubility in / Miscibility with Water: 	Not miscible or difficult to mix.
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<ul style="list-style-type: none"> · Partition coefficient (n-octanol/water): 	Not determined.
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<ul style="list-style-type: none"> · Viscosity: · Dynamic: · Kinematic: 	Not determined. Not determined.
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<ul style="list-style-type: none"> · Solvent content: · Organic solvents: · VOC content: 	not determined not determined not determined
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<ul style="list-style-type: none"> · Solids content: 	22.2 %
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10 Stability and reactivity

- **Reactivity** Not a regulated physical hazard under GHS.
- **Hazardous Reactivity and Chemical Stability** Stable under normal conditions of use, storage and temperatures.
- **Thermal decomposition / conditions to be avoided:**
 To avoid thermal decomposition do not overheat.
 No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** In contact with incompatible materials.
- **Conditions to avoid** Keep away from heat, sparks, flame and any other ignition sources.
- **Incompatible materials:**
 Oxidizing agents
 Acids
 Bases (Alkalis)
- **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.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:**
 While not possible to classify the acute oral hazard due to missing data, the product may cause the following symptom(s):
 abnormal pain, headache, nausea, vomiting, drowsiness
 See acute inhalative effect(s) for further information

28064-14-4 Phenol, polymer with formaldehyde, glycidyl ether

Oral	LD50	> 5000 mg/kg (rat) Reference: Huntsman (M)SDS (2003).
Dermal	LD50	> 6000 mg/kg (rabbit) Reference: Huntsman (M)SDS (2003).
Inhalative	LC50/4 h	(Test species: n/a) (Toxicity not expected based on acute oral data) Based on the acute oral toxicity test, it was expected that toxicity to mammals via inhalation of the substance was not a significant concern and resulted in a similar lack of acute toxicity. Thus, the substance was not classified as an acute inhalation hazard.

31452-80-9 Dibromoneopentyl glycol, chloromethyloxirane polymer

Oral	LD50	(No data available)
Dermal	LD50	(No data available)
Inhalative	LC50/4 h	(No data available)

65997-17-3 Fibrous Glass

Oral	LD50	2000-5000 mg/kg LD50 estimated to be between 2000-5000 mg/kg. Reference: Vendor SDS 2015
Dermal	LD50	>5000 mg/kg LD50 estimated to be >5000 mg/kg Reference: Vendor SDS 2015
Inhalative	LC50/4 h	(mouse) LD > 20 mg/kg Exposure time unknown. Reference: ChemID (2010).

2210-79-9 o-Cresyl glycidyl ether

Oral	LD50	4000 mg/kg (rat) Reference: ChemID Full-Record (2011).
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Dermal	LD50	>2000 mg/kg (rabbit) Reference: Vendor SDS (2014).
Inhalative	LC50/4 h	(rat) (Non-toxic; LC50 exceeded the saturated vapor value) The LC50 value (6.09 mg/l) exceeded the substance's saturated vapor concentration of 0.38 mg/L at 25 °C. Thus, the substance was not expected to pose an inhalative hazard under regular conditions. Reference: ChemID Full-Record (2011).

13560-89-9 Bis(hexachlorocyclopentadieno)

Oral	LD50	> 25000 mg/kg (rat) Reference: EPA HPVVIS (2011).
Dermal	LD50	> 8000 mg/kg (rabbit) No mortality was observed; the substance was not classified as an acute oral hazard. Reference: EPA HPVVIS (2011).
Inhalative	LC50/4 h	> 2.25 mg/l (rat) No mortality or any adverse effects were observed; classification was not possible. Reference: ACToR (2011).

1309-64-4 Diantimony trioxide

Oral	LD50	>34600 mg/kg (rat) Reference: Sigma Aldrich SDS 2015
Dermal	LD50	> 8300 mg/kg (rabbit) Reference: OECD SIAM (2008).
Inhalative	LC50/4 h	> 5.2 mg/l (rat) (LC50/4 hrs (nose-only; dusts)) No mortality or abnormality was observed; the substance was not classified as an acute inhalative hazard based on the classification criteria. Reference: OECD SIAM (2008).

- **Specific symptoms in biological assay:**

No further relevant information available; classification is not possible.
See acute inhalative effect(s) for further information.

- **Primary irritant effect:**

cough
sore throat
wheezing

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:** Sensitization possible through skin contact.

- **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)**

1309-64-4	Diantimony trioxide	2B
7631-86-9	silicon dioxide, chemically prepared	3
7440-38-2	arsenic	1
7439-92-1	lead	2B

- **NTP (National Toxicology Program)**

7440-38-2	arsenic	K
7439-92-1	lead	R

- **OSHA-Ca (Occupational Safety & Health Administration)**

7440-38-2	arsenic	
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12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

- **28064-14-4 Phenol, polymer with formaldehyde, glycidyl ether**

EC50	mildly irrit. mg/kg (rabbit) Based on the manufacturer's (M)SDS, the substance was considered to be a mild dermal irritant. Reference: Huntsman (M)SDS (2003).
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- **31452-80-9 Dibromoneopentyl glycol, chloromethyloxirane polymer**

EC50	(No data available)
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- **65997-17-3 Fibrous Glass**

EC50	The substance in dust form causes skin irritation. Reference: Haz-Map (2010).
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- **2210-79-9 o-Cresyl glycidyl ether**

EC50	irritating mg/kg (rabbit) (Read-across from CAS 26447-14-3; OECD TG 404) From slightly to highly irritating results were observed. For safety reasons, we adopted the classification from EU as a Category 2 skin irritant. Reference: IUCLID Dataset (2000) and ESIS (2011).
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- **13560-89-9 Bis(hexachlorocyclopentadieno)**

EC50	(No data available)
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- **1309-64-4 Diantimony trioxide**

EC50	(No data available)
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- **Persistence and degradability** No further relevant information available.

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- **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:**
 - 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 available.

13 Disposal considerations

- **Waste treatment methods**
 - **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.

14 Transport information

· UN-Number · DOT, IMDG, IATA	UN3082
· UN proper shipping name · DOT · IMDG · IATA	Environmentally hazardous substances, liquid, n.o.s. ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin, o-Cresyl glycidyl ether), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin, o-Cresyl glycidyl ether)
· Transport hazard class(es) · DOT, IMDG, IATA	
	
· Class · Label	9 Miscellaneous dangerous substances and articles 9
· Packing group · DOT, IMDG, IATA	III
· Environmental hazards: · Marine pollutant: · Special marking (IATA):	Product contains environmentally hazardous substances: arsenic, Epoxy Resin Yes Symbol (fish and tree) Symbol (fish and tree)
· Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Category	Warning: Miscellaneous dangerous substances and articles 90 F-A,S-F A
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information: · DOT · 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 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S. (EPOXY RESIN, O-CRESYL GLYCIDYL ETHER), 9, III

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15 Regulatory information

· **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):**

1309-64-4	Diantimony trioxide	2.5-5%
7440-38-2	arsenic	0-<0.025%
7439-92-1	lead	0-<0.025%

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

28064-14-4	Phenol, polymer with formaldehyde, glycidyl ether	A	40-50%
31452-80-9	Dibromoneopentyl glycol, chloromethyloxirane polymer	A	20-30%
65997-17-3	Fibrous Glass	Acute Health, Chronic Health	10-20%
2210-79-9	o-Cresyl glycidyl ether	A, C	10-20%
1309-64-4	Diantimony trioxide	A, C	2.5-5%
2530-83-8	Glycidylxypropyltrimethoxysilane	A, C	0.1-<1%
25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin	A, C	0-<0.1%

· **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):**

28064-14-4	Phenol, polymer with formaldehyde, glycidyl ether
31452-80-9	Dibromoneopentyl glycol, chloromethyloxirane polymer
65997-17-3	Fibrous Glass
2210-79-9	o-Cresyl glycidyl ether
13560-89-9	Bis(hexachlorocyclopentadieno)
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica
25214-39-5	Vinylidene chloride, methyl methacrylate, acrylonitrile polymer
7631-86-9	silicon dioxide, chemically prepared
2530-83-8	Glycidylxypropyltrimethoxysilane
75-28-5	isobutane
25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin
7440-38-2	arsenic
7439-92-1	lead

· **Proposition 65**

· **Chemicals known to cause cancer:**

1309-64-4	Diantimony trioxide
7440-38-2	arsenic
7439-92-1	lead
106-89-8	1-chloro-2,3-epoxypropane
122-60-1	Phenyl glycidyl ether

· **Chemicals known to cause reproductive toxicity for females:**

7439-92-1	lead
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· **Chemicals known to cause reproductive toxicity for males:**

7439-92-1	lead
106-89-8	1-chloro-2,3-epoxypropane

· **Chemicals known to cause developmental toxicity:**

7439-92-1	lead
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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

7440-38-2	arsenic	A
7439-92-1	lead	B2

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

1309-64-4	Diantimony trioxide	A2
7440-38-2	arsenic	A1
7439-92-1	lead	A3

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

7440-38-2	arsenic
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· **International Regulation Lists**

· **Chinese Chemical Inventory of Existing Chemical Substances:**

All ingredients are listed.

· **GHS label elements** GHS label elements

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· National regulations:

· Japanese Existing and New Chemical Substance List:

28064-14-4	Phenol, polymer with formaldehyde, glycidyl ether
31452-80-9	Dibromoneopentyl glycol, chloromethyloxirane polymer
2210-79-9	o-Cresyl glycidyl ether
13560-89-9	Bis(hexachlorocyclopentadieno)
1309-64-4	Diantimony trioxide
67762-90-7	Siloxanes and Silicones, di-Me, reaction products with silica
25214-39-5	Vinylidene chloride, methyl methacrylate, acrylonitrile polymer
7631-86-9	silicon dioxide, chemically prepared
2530-83-8	Glycidyoxypropyltrimethoxysilane
75-28-5	isobutane
25068-38-6	Bisphenol-A-(epichlorohydrin) epoxy resin
7440-38-2	arsenic
7439-92-1	lead

· Korean Existing Chemical Inventory:

All ingredients are listed.

· European Pre-registered substances:

All ingredients are listed.

· 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.

· 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

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· **Date of preparation / last revision** 06/01/2017 / 4

· *** Data compared to the previous version altered.**