# **SAFETY DATA SHEET**



ARALDITE® 2014 A US

### Section 1. Identification

GHS product identifier Product code Other means of identification Product type	:	
Material uses	÷	Epoxy adhesive
Supplier's details	:	Huntsman Advanced Materials Americas LLC P.O. Box 4980 The Woodlands, TX 77387 Non-Emergency phone: (800) 257-5547
e-mail address of person responsible for this SDS	:	MSDS@huntsman.com
Emergency telephone number (24h/7day)	:	Chemtrec: (800) 424-9300 or (703) 527-3887

## Section 2. Hazards identification

SHA Hazard Communication
Category 2A
nt(s) of unknown toxicity: 3.6% nt(s) of unknown hazards to the
r

### Section 2. Hazards identification

Precautionary statements	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Avoid release to the environment. Avoid breathing vapor. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Collect spillage. IF exposed or concerned: Get medical attention. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention attention. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hererde which do not	Negelsees

Other hazards which do not : None known. result in classification

### Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	%	CAS number
	30 - 60 1 - 3	25068-38-6 7727-43-7 2425-79-8 2451-62-9

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

Description of necessary	r first aid measures	
Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and low eyelids. Check for and remove any contact lenses. Continue to rinse for at leas minutes. Get medical attention.</li> </ul>	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathin If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attentio unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms to be delayed. The exposed person may need to be kept under medical surveillan for 48 hours.	n. If may
Skin contact	Wash with plenty of soap and water. Remove contaminated clothing and shoes Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.	
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh a and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water t drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do induce vomiting unless directed to do so by medical personnel. If vomiting occu the head should be kept low so that vomit does not enter the lungs. Get medical attention. Never give anything by mouth to an unconscious person. If unconscient place in recovery position and get medical attention immediately. Maintain an op airway. Loosen tight clothing such as a collar, tie, belt or waistband.	o not rs, Il ous,
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## Section 4. First aid measures

Most important symptoms/effects, acute and delayed		
Potential acute health effe	<u>ots</u>	
Eye contact	: Causes serious eye irritation.	
Inhalation	: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.	
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.	
Ingestion	: Irritating to mouth, throat and stomach.	
Over-exposure signs/symp	<u>toms</u>	
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	: No specific data.	
Skin contact	: Adverse symptoms may include the following: irritation redness	
Ingestion	: No specific data.	
Indication of immediate medical attention and special treatment needed, if necessary		
Notes to physician	: No specific treatment. Treat symptomatically. Call medical doctor or poison control center immediately if large quantities have been ingested.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

Flash point	:	Closed cup: >93°C (>199.4°F) [Estimated]
Extinguishing media		
Suitable extinguishing media	:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	None known.
Specific hazards arising from the chemical	:	In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	:	

### Section 5. Fire-fighting measures

		Decomposition products may include the following materials: carbon dioxide Carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

Personal precautions, protectiv	<u>equipment and emergency procedures</u>
For non-emergency : personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders :	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions :	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Methods and materials for : containment and cleaning up	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### Section 7. Handling and storage

Precautions for safe handling

Protective measures

: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product

### Section 7. Handling and storage

	residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Ingredient name	Exposure limits
triglycidyl isocyanurate	ACGIH TLV (United States, 3/2012). TWA: 0.05 mg/m <sup>3</sup> 8 hours.

Appropriate engineering controls	If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	<ul> <li>Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some</li> </ul>

controls	they comply with the requirements of environmental protection legislation. In some
	cases, fume scrubbers, filters or engineering modifications to the process
	equipment will be necessary to reduce emissions to acceptable levels.

Individual protection mea	<u>sures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	:

### Section 8. Exposure controls/personal protection

Thermal hazards	: Not available.
Respiratory protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Other skin protection	<ul> <li>Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

### Section 9. Physical and chemical properties

#### **Appearance Physical state** : Liquid. [Paste.] Color : Beige. Odor : Slight : Not available. **Odor threshold** pН : Not available. Melting point/Freezing point : Not available. **Boiling/condensation point** : Not available. **Flash point** : Closed cup: >93°C (>199.4°F) [Estimated] : Not available. **Evaporation rate** : Not available. Flammability (solid, gas) : Not available. Lower and upper explosive (flammable) limits Vapor pressure : Not available. Vapor density : Not available. : 1.55 **Relative density** Solubility in water : negligible Partition coefficient: n-: Not available. octanol/water Auto-ignition temperature : Not available. Decomposition temperature : Not available. Viscosity : Not available.

### Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.

### Section 10. Stability and reactivity

Incompatible materials

: No specific data.

Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Test	Endpoint	Species	Result
Bisphenol A epoxy resin	-	LC0 Inhalation Vapor	Rat - Male	0.00001 ppm
	OECD 402 Acute Dermal Toxicity	LD50 Dermal	Rat - Male, Female	>2000 mg/kg
	OECD 420 Acute Oral Toxicity - Fixed Dose Method	LD50 Oral	Rat - Female	>2000 mg/kg
Butanedioldiglycidyl ether	No official guidelines	LD50 Dermal	Rat - Male, Female	2150 mg/kg
	OECD 401 Acute Oral Toxicity	LD50 Oral	Rat - Male, Female	1163 mg/kg
triglycidyl isocyanurate	OECD 403 Acute Inhalation Toxicity	LC50 Inhalation Dusts and mists	Rat - Male, Female	1.14 mg/l
	OECD 402 Acute Dermal Toxicity	LD50 Dermal	Rat - Male, Female	>2000 mg/kg
	OECD 401 Acute Oral Toxicity	LD50 Oral	Rat - Male, Female	400 to 800 mg/kg

#### Irritation/Corrosion

Product/ingredient name	Test	Species	Result
Bisphenol A epoxy resin	OECD 404 Acute Dermal Irritation/Corrosion	Rabbit	Skin - Mild irritant
	OECD 405 Acute Eye Irritation/ Corrosion	Rabbit	Eyes - Mild irritant
Butanedioldiglycidyl ether	OECD 404 Acute Dermal Irritation/Corrosion	Rabbit	Skin - Non-irritant.
	OECD 405 Acute Eye Irritation/ Corrosion	Rabbit	Eyes - Severe irritant
triglycidyl isocyanurate	OECD 404 Acute Dermal Irritation/Corrosion	Rabbit	Skin - Non-irritant.
	EPA OPPTS	Rabbit	Eyes - Severe irritant

#### Conclusion/Summary

Skin	: Bisphenol A epoxy resin Butanedioldiglycidyl ether triglycidyl isocyanurate Bisphenol A epoxy resin Based on the human occupational exposu substance is considered as irritating to skin. Non-irritating to the skin.	
Eyes	: Bisphenol A epoxy resin Butanedioldiglycidyl ether triglycidyl isocyanurate Severely irritating to eyes.	
Respiratory	: Bisphenol A epoxy resin Butanedioldiglycidyl ether triglycidyl isocyanurate No additional information. No additional information. No additional information.	

### **Sensitization**

Product/ingredient name	Test	Route of exposure	Species	Result
Bisphenol A epoxy resin	OECD 429 Skin Sensitization: Local Lymph Node Assay	skin	Mouse	Sensitizing
Butanedioldiglycidyl ether	OECD 406 Skin Sensitization	skin	Guinea pig	Sensitizing
triglycidyl isocyanurate	OECD 406 Skin Sensitization	skin	Guinea pig	Sensitizing

#### **Mutagenicity**

Product/ingredient name	Test	Result
Bisphenol A epoxy resin	Experiment: In vitro	Positive
	Subject: Bacteria	
	Metabolic activation: +/-	
	Experiment: In vitro	Positive
	Subject: Mammalian-Animal	
	Cell: Somatic	
	Metabolic activation: +/-	
	Experiment: In vivo	Negative
	Subject: Mammalian-Animal	
	Cell: Germ	
	Experiment: In vivo	Negative
	Subject: Mammalian-Animal	
	Cell: Somatic	
Butanedioldiglycidyl ether	Experiment: In vitro	Positive
	Subject: Bacteria	
	Metabolic activation: +/-	
	Experiment: In vitro	Positive
	Subject: Mammalian-Animal	
	Metabolic activation: +/-	
	Experiment: In vivo	Negative
	Subject: Mammalian-Animal	
	Cell: Somatic	
triglycidyl isocyanurate	Experiment: In vitro	Positive
	Subject: Bacteria	
	Metabolic activation: +/-	
	Experiment: In vitro	Positive
	Subject: Mammalian-Animal	
	Cell: Somatic	
	Metabolic activation: +/-	
	Experiment: In vivo	Positive
	Subject: Mammalian-Animal	
	Cell: Germ	
	Experiment: In vivo	Positive
	Subject: Mammalian-Animal	
	Cell: Somatic	
	Experiment: In vitro	Negative
	Subject: Mammalian-Human	
	Cell: Somatic	
	Metabolic activation: +/-	

**Conclusion/Summary** :

triglycidyl isocyanurate

The weight of the scientific evidence indicates that this material is genotoxic.

#### **Carcinogenicity**

Product/ingredient name	Test	Species	Dose	Exposure	Result/Result type
Bisphenol A epoxy resin	OECD 453 Combined Chronic Toxicity/ Carcinogenicity Studies	Rat - Male, Female	15 mg/kg	2 years; 7 days per week	Negative - Oral - NOAEL
	OECD 453 Combined Chronic Toxicity/ Carcinogenicity Studies	Rat - Female	1 mg/kg	2 years; 5 days per week	Negative - Dermal - NOEL
	OECD 453 Combined Chronic Toxicity/ Carcinogenicity Studies	Mouse - Male	0.1 mg/kg	2 years; 3 days per week	Negative - Dermal - NOEL
triglycidyl isocyanurate	OECD 451 Carcinogenicity Studies	Rat - Male	4.36 mg/kg	99 weeks; 24 hours per day	Negative - Oral - NOAEL

#### **Reproductive toxicity**

Product/ingredient name	Test	Species	Maternal toxicity	Fertility	Developmental effects
Bisphenol A epoxy resin	OECD 416 Two- Generation Reproduction Toxicity Study	Rat - Male, Female	Negative	Negative	Negative
triglycidyl isocyanurate	OECD 408 Repeated Dose 90-Day Oral Toxicity Study in Rodents	Rat - Male	Negative	Negative	Negative

Conclusion/Summary

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triglycidyl isocyanurate

No known significant effects or critical hazards.

#### **Teratogenicity**

Product/ingredient name	Test	Species	Result/Result type
Bisphenol A epoxy resin	OECD 414 Prenatal Developmental Toxicity Study EPA CFR	Rat - Female Rabbit - Female	Negative - Oral Negative - Dermal
		Rabbit - Female	Negative - Oral

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#### Conclusion/Summary

triglycidyl isocyanurate

In accordance with column 2 of Annex VII - X of Regulation (EC) No 1907/2006, the test for this property of the substance does not need to be conducted.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

#### Aspiration hazard

Not available.

**Information on the likely** : Not available. routes of exposure

#### Potential acute health effects

Eye contact	: Causes serious eye irritation.
Inhalation	: Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	: Causes skin irritation. May cause an allergic skin reaction.
Ingestion	: Irritating to mouth, throat and stomach.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.
<b>Delayed and immedia</b>	te effects and also chronic effects from short and long term exposure

Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.

Potential chronic health effects

Product/ingredient name	Test	Endpoint	Species	Result		
Bisphenol A epoxy resin	OECD 408 Repeated Dose 90-Day Oral Toxicity Study in Rodents	Sub-chronic NOAEL Oral	Rat - Male, Female	50 mg/kg		
	OECD 411 Subchronic Dermal Toxicity: 90-day Study	Sub-chronic NOEL Dermal	Rat - Male, Female	10 mg/kg		
	OECD 411 Subchronic Dermal Toxicity: 90-day Study	Sub-chronic NOAEL Dermal	Mouse - Male	100 mg/kg		
Butanedioldiglycidyl ether	OECD 407 Repeated Dose 28-day Oral Toxicity Study in Rodents	Sub-chronic NOAEL Oral	Rat - Male, Female	200 mg/kg		
triglycidyl isocyanurate	OECD 408 Repeated Dose 90-Day Oral Toxicity Study in Rodents	Sub-chronic NOAEL Oral	Rat - Male, Female	7.32 mg/kg/d		
	OECD	Sub-acute NOEC Inhalation Dusts and mists	Mouse - Male	<100 mg/m³		
General	: Once sensitized, a sev very low levels.	ere allergic reaction may	occur when subse	quently exposed		
Carcinogenicity	: No known significant e	No known significant effects or critical hazards.				
Mutagenicity	: May cause genetic def	ects if swallowed.				
Teratogenicity	: No known significant e	ffects or critical hazards.				
Developmental effects	: No known significant e	No known significant effects or critical hazards.				
Fertility effects	No known significant effects or critical hazards.					

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
	56122.4 mg/kg 34.17 mg/l

#### **Other information**

: Not available.

## Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Test	Endpoint	t	Exposure	Species	Result	
Bisphenol A epoxy resin	EPA CFR	Acute	EC50	72 hours Static	Algae	9.4	mg/l
	OECD 202 <i>Daphnia</i> sp. Acute Immobilisation Test	Acute	EC50	48 hours Static	Daphnia	1.7	mg/l
	Unknown guidelines	Acute	IC50	3 hours Static	Bacteria	>100	mg/l
	OECD 203 Fish, Acute Toxicity Test	Acute	LC50	96 hours Static	Fish	1.5	mg/l

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	OECD 211 <i>Daphnia</i> <i>Magna</i> Reproduction Test	Chronic	NOEC	21 days Semi-static	Daphnia	0.3	mg/l
Butanedioldiglycidyl ether	OECD 202 <i>Daphnia</i> sp. Acute Immobilisation Test	Acute	EC50	24 hours Static	Daphnia	75	mg/l
	OECD 201 Alga, Growth Inhibition Test	Acute	EL50	72 hours Static	Algae	>160	mg/l
	OECD 209 Activated Sludge, Respiration Inhibition Test	Acute	IC50	3 hours Static	Bacteria	>100	mg/l
	OECD 203 Fish, Acute Toxicity Test	Acute	LC50	96 hours Static	Fish	24	mg/l
triglycidyl isocyanurate	OECD 201 Alga, Growth Inhibition Test	Acute	EbC50 (biomass)	72 hours	Algae	29	mg/l
	OECD 209 Activated Sludge, Respiration Inhibition Test	Acute	IC50	3 hours Static	Bacteria	>100	mg/l
	OECD 202 <i>Daphnia</i> sp. Acute Immobilisation Test	Acute	LC50	24 hours Static	Daphnia	>100	mg/l
	OECD 203 Fish, Acute Toxicity Test	Acute	LC50	96 hours Static	Fish	>77	mg/l

#### Persistence and degradability

Product/ingredient name	Test	Period	Result
Bisphenol A epoxy resin	OECD Derived from OECD 301F (Biodegradation Test)	28 days	5 %
Butanedioldiglycidyl ether	OECD 301F Ready Biodegradability - Manometric Respirometry Test	28 days	43 %
triglycidyl isocyanurate	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	44 days	0.5 to 1 %
Conclusion/Summary	: Bisphenol A epoxy resin Not readily b	iodegradable.	

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Bisphenol A epoxy resin	Fresh water 4.83 days Fresh water 3.58 days Fresh water 7.1 days	-	Not readily
Butanedioldiglycidyl ether triglycidyl isocyanurate	- Fresh water 6.66 days	-	Not readily -

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
Bisphenol A epoxy resin	3.242	31	low
Butanedioldiglycidyl ether	-0.269	-	low
triglycidyl isocyanurate	-0.8	-	low

#### Mobility in soil

Not available.

Other adverse effects : No known significant effects or critical hazards.

#### **Other ecological information**

BOD5	: Not determined.
COD	: Not determined.
тос	: Not determined.

### Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Section 14. Transport information

#### Proper shipping name

- **DOT** : Environmentally hazardous substance, liquid, n.o.s. Bisphenol a epoxy resin Marine pollutant
- **TDG** : Environmentally hazardous substance, liquid, n.o.s. Bisphenol a epoxy resin Marine pollutant
- **IMDG** : Environmentally hazardous substance, liquid, n.o.s. Bisphenol a epoxy resin Marine pollutant
- IATA : Environmentally hazardous substance, liquid, n.o.s. Bisphenol a epoxy resin

UN number	Classes	PG*		Additional information
	UN number	UN number Classes	UN number Classes PG*	

### Section 14. Transport information

1011 14. 11a115p				
DOT Classification	UN3082	9		Marine pollutants are only regulated for bulk and vessel shipments, per 49CFR171.4 (c) Exceptions. Except when all or part of the transportation is by vessel, the requirements of this subchapter specific to marine pollutants do not apply to non-bulk packagings transported by motor vehicle, rail car or aircraft.
TDG Classification	UN3082	9	111	-
IMDG Classification	UN3082	9	111	<u>Emergency</u> <u>schedules (EmS)</u> F-A, S-F
IATA Classification	UN3082	9	111	Passenger and Cargo Aircraft Quantity limitation: 450 L Packaging instructions: 964 Cargo Aircraft Only Quantity limitation: 450 L Packaging instructions: 964

PG\* : Packing group

### Section 15. Regulatory information

Safety, health and environmental regulations specific for the product

**United States Regulations** 

**TSCA 8(b) inventory** : All components are listed or exempted.

TSCA 5(a)2 final : No ingredients listed. significant new use rule (SNUR)

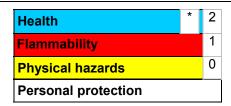
## Section 15. Regulatory information

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TSCA 5(e) substance consent order	: No ingredients listed.
TSCA 12(b) export notification	: No ingredients listed.
SARA 311/312	: Immediate (acute) health hazard Delayed (chronic) health hazard
Clean Air Act - Ozone Depleting Substances (ODS)	: This product does not contain nor is it manufactured with ozone depleting substances.
SARA 313	: No ingredients listed.
CERCLA Hazardous substances	: No ingredients listed.
State regulations	
PENNSYLVANIA - RTK	: No ingredients listed.
California Prop 65	: This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.
Canadian regulations	
CEPA DSL	: All components are listed or exempted.
WHMIS Classes	: Class D-2A: Material causing other toxic effects (Very toxic). Class D-2B: Material causing other toxic effects (Toxic).
•	en classified in accordance with the hazard criteria of the Controlled Products MSDS contains all the information required by the Controlled Products Regulations.
Brazil Regulations Classification system used	: Norma ABNT-NBR 14725-2:2012

International lists	: Australia inventory (AICS): All components are listed or exempted.
	China inventory (IECSC): All components are listed or exempted.
	Japan inventory: All components are listed or exempted.
	Korea inventory: At least one component is not listed.
	Malaysia Inventory (EHS Register): Not determined.
	New Zealand Inventory of Chemicals (NZIoC): At least one component is not listed.
	Philippines inventory (PICCS): At least one component is not listed.
	Taiwan inventory (CSNN): Not determined.

### Section 16. Other information

Hazardous Material Information System (U.S.A.)



#### The customer is responsible for determining the PPE code for this material.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on SDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

Health 2 0 Instability Special

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