

SAFETY DATA SHEET

FOR INDUSTRIAL USE ONLY

EPONTM Resin 815C

Section 1. Product and company identification

GHS product identifier MSDS Number Product type Material uses		 EPON[™] Resin 815C K2159 Epoxy Resin Epoxy Resin Systems
Manufacturer/Supplier/Impor ter	:	Hexion Inc. 180 East Broad Street Columbus, Ohio 43215 USA
Contact person	:	4information@hexion.com
Telephone	:	For additional health and safety or regulatory information, call 1 888 443 9466.
Emergency telephone number	:	For Emergency Medical Assistance Call Health & Safety Information Services 1-866-303-6949
		For Emergency Transportation Information CHEMTREC US Domestic (800) 424-9300 CHEMTREC International (703) 527-3887 CANUTEC CA Domestic (613) 996-6666

Section 2. Hazards identification

Classification of the substance or mixture	:	SKIN IRRITATION - Category 2 EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 GERM CELL MUTAGENICITY - Category 2 CARCINOGENICITY - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [eyes] - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation] - Category 3 SPECIFIC TARGET ORGAN TOXICITY (REPEATED
		SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) [blood system, central nervous system (CNS), respiratory tract, skin] - Category 1

GHS label elements

Hazard pictograms	:	
Signal word Hazard statements	:	Danger H227 Combustible liquid. H315 Causes skin irritation. H319 Causes serious eye irritation. H319 Causes serious eye irritation. H317 May cause an allergic skin reaction. H341 Suspected of causing genetic defects. H351 Suspected of causing cancer. H371 May cause damage to organs. (eyes) H335 May cause respiratory irritation. H372 Causes damage to organs through prolonged or repeated exposure: (blood system, central nervous system (CNS), respiratory tract, skin)
Precautionary statements		
General	:	Not applicable.
Prevention	:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from flames and hot surfaces No smoking. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.
Response	:	Get medical attention if you feel unwell. IF exposed or concerned: Call a POISON CENTER or physician. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. 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.
Storage	:	Store locked up. Store in a well-ventilated place. Keep cool.
Disposal	:	Dispose of contents and container in accordance with all local,

regional, national and international regulations.

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

Section 3. Composition/information on ingredients

:

Substance/mixture

Mixture

Ingredient name	% by weight	CAS number
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	70 - 90	25068-38-6
Oxirane, 2-(butoxymethyl)-	12.5 - 15	2426-08-6

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 attention. If necessary, call a poison center or physician. If 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.
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. If necessary, call a poison center or physician. 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 air 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 to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If 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.

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	:	No specific treatment.
Protection of first aid personnel	:	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

Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	Use dry chemical, CO2, water spray (fog) or foam. Do not use water jet.
Specific hazards arising from the chemical Hazardous thermal	:	Combustible liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. Decomposition products may include the following materials: carbon dioxide
decomposition products		carbon dioxide carbon monoxide halogenated compounds
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. Move containers from fire area if this can be done without risk. Use water spray to keep fire- exposed containers cool.
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, protective equipment and emergency procedures

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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
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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).
Methods and material for containmen	t and	l cleaning up
Small spill Large spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. 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 of SDS). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 13 of SDS for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see section 8 of SDS). 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 breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product 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,	:	Store in accordance with local regulations. Store in a segregated and

including any incompatibilities approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. 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
Oxirane, 2-(butoxymethyl)-	OSHA PEL (1993-06-30) TWA 270 mg/m3 50 ppm NIOSH REL (1994-06-01) CEIL 30 mg/m3 5.6 ppm ACGIH TLV (2005-01-01) TWA 3 ppm Notes: Absorbed through skin. Skin sensitizer OSHA PEL 1989 (1989-03-01) TWA 135 mg/m3 25 ppm
4,4'-Isopropylidenediphenol- Epichlorohydrin Copolymer	None.

Recommended monitoring procedures	:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required. If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Appropriate engineering controls	:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure 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 measures

Hygiene measures Eye/face protection	:	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. 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.
Skin protection		
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	:	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.
Other skin protection	:	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.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

Physical state Color	:	Liquid Yellow
Odor Odor threshold pH Melting point/ Freezing point Boiling point Flash point	: : : : : : : : : : : : : : : : : : : :	Not available Not available Not available Not available Not available Setaflash Closed Cup: 73 °C (163 °F) (ASTM D 3828)

Burning time	:	Not available
Burning rate	:	Not available
Evaporation rate	:	Not available
Flammability (solid, gas)	:	Not available
Lower and upper explosive	:	Lower: Not available
(flammable) limits		Upper: Not available
Vapor pressure	:	400 Pa @ 25 °C (77 °F) (Solvent)
Vapor density	:	4.5 [Air = 1]
Relative density	:	1.13
Solubility	:	Not available
Solubility in water	:	Negligible
Partition coefficient: n- octanol/water	:	Not available
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
SADT	:	Not available
Viscosity	:	Dynamic: Not available
		Kinematic: Not available

Other information

No additional information.

Section 10. Stability and reactivity

Reactivity	:	Stable under normal conditions.
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	:	Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.
Incompatible materials	:	Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Other hazards		Reacts with considerable heat release with some curing agents. Heating this substance above 300 deg. F in the presence of air may cause slow oxidative decomposition; above 500 deg. F polymerization may occur. Some combinations of resins and curing agents can produce exothermic reactions which in large masses can cause runaway polymerization and charring of the reactants Fumes and vapors from the thermal and chemical decompositions

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure			
Oxirane, 2-(butoxymethyl)-							
	LD50 Oral	Rat	1,660 mg/kg	-			
	LC50 Inhalation	Rat		8 h			
Remarks - Inhalation:	D17 Eye - Lacrimation K01 Gastrointestinal - Changes in structure or function of						
	salivary glands J22	salivary glands J22 Lung, Thorax, or Respiration - Dyspnea					
	LD50 Dermal	Rat	> 2,150 mg/kg	-			
4,4'-Isopropylidenediphenol-H	Epichlorohydrin Cop	olymer					
	LD50 Oral	Rat	11,400 mg/kg	-			
	LD50 Dermal	Rat	2,000 mg/kg	-			
Conclusion/Summary	: Not	available					

Conclusion/Summary

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Oxirane, 2-(butoxymethyl)-	eyes - Severe irritant	Rabbit		24 hrs	-
	Skin - Mild irritant	Rabbit		72 hrs	-
	Skin - Moderate irritant	Rabbit		24 hrs	-
	eyes - Mild irritant	Rabbit			-
4,4'-Isopropylidenediphenol- Epichlorohydrin Copolymer	Skin - Erythema/E schar 404 Acute Dermal Irritation/Co rrosion	Rabbit	1.5 - 2		-
	Skin - Edema 404 Acute Dermal Irritation/Co rrosion	Rabbit	1.0 - 1.5		-
	eyes 405 Acute Eye Irritation/Co rrosion	Rabbit	0		-
	eyes - Redness of the	Rabbit	0.7		-

		1		
	conjunctiva			
	e			
	Skin - Ra	bbit	24 hrs	-
	Moderate			
	irritant			
		bbit	24 hrs	-
	Severe	oon		
	irritant			
		bbit		-
		bbit		-
	irritant			
Conclusion/Summary				
Skin	: Not availa			
eyes	: Not availa			
Respiratory	: Not availa	ole		
<u>Sensitization</u> Conclusion/Summary				
Skin	Not availa	ole		
Respiratory	Not availa	ole		
J				
Mutagenicity				
Conclusion/Summary	: Not availa	ole		
Carcinogenicity				
Conclusion/Summary	: Not availa	ble		
Reproductive toxicity				
Conclusion/Summary	: Not availa	ole		
Teratogenicity				
Conclusion/Summary	: Not availa	ble		

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Oxirane, 2-(butoxymethyl)-	Category 3 Category 2		Respiratory tract irritation eyes
4,4'-Isopropylidenediphenol- Epichlorohydrin Copolymer	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Oxirane, 2-(butoxymethyl)-	Category 1		skin
			respiratory tract
	Category 2		blood system
			central nervous system
			(CNS)

Aspiration hazard

Not available

Information on likely routes of exposure	:	Not available
Potential acute health effects		
Eye contact	:	Causes serious eye irritation.
Inhalation	:	May cause respiratory irritation.
Skin contact	:	Causes skin irritation. May cause an allergic skin reaction.
Ingestion	:	No known significant effects or critical hazards.
Symptoms related to the physical, ch	emic	al and toxicological characteristics
Eye contact	:	Adverse symptoms may include the following:
		pain or irritation
		watering redness
Inhalation		Adverse symptoms may include the following:
Imalation	:	respiratory tract irritation
		coughing
Skin contact	:	Adverse symptoms may include the following:
		irritation
		redness
Ingestion	:	No specific data.
Delayed and immediate effects as we	ll as	chronic effects from short and long-term exposure
<u>Short term exposure</u>		
Potential immediate effects	:	Not available
Potential delayed effects	:	Not available
I and tarm arraging		
Long term exposure		
Potential immediate effects	:	Not available
Potential delayed effects	:	Not available
Potential chronic health effects		
Conclusion/Summary	:	Not available
General	:	Causes damage to organs through prolonged or repeated exposure: Once sensitized, a severe allergic reaction may occur when
Carcinogenicity	:	subsequently exposed to very low levels. Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	:	Suspected of causing genetic defects.
Teratogenicity	:	No known significant effects or critical hazards.
Developmental effects	:	No known significant effects or critical hazards.
Fertility effects	:	No known significant effects or critical hazards.
Numerical massures of toxisity		

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	12,455.4 mg/kg
Route	ATE value
Inhalation (vapors)	82.54 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
butyl glycidyl ether			
	Acute EC50 3.9 mg/l Fresh water	Aquatic invertebrates.	48 h
		Water flea	
reaction product: bisphenol-A-(e	pichlorhydrin); epoxy resin (number avera	ge molecular weight \leq 700))
	Acute LC50 1.3 mg/l - 203 Fish, Acute	Fish - Fish	96 h
	Toxicity Test		
	Acute EC50 2.1 mg/l - 202 Daphnia	Aquatic invertebrates.	48 h
	sp. Acute Immobilization Test and	Water flea	
	Reproduction Test		
	Acute $LC50 > 11 \text{ mg/l}$ -	Aquatic plants - Algae	72 h
	Chronic No-observable-effect-	Aquatic invertebrates.	21 d
	concentration 0.3 mg/l semi-static test	Water flea	
	211 Daphnia Magna Reproduction Test		

Conclusion/Summary

Not available

:

Persistence/degradability

Conclusion/Summary : Not available

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Oxirane, 2-(butoxymethyl)-	0.63	-	low
4,4'-Isopropylidenediphenol-	2.64 - 3.78	3 - 31 31.00	low
Epichlorohydrin Copolymer			

Mobility in soil

Soil/water partition coefficient	:	Not available
(KOC) Other adverse effects	:	No known significant effects or critical hazards.

:

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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

The data provided in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulations to properly classify your shipment for transportation.

Regulatory information	UN/NA number	Proper shipping name	Classes/*PG	Reportable Quantity (RQ)
CFR		Non-regulated		
TDG		Non-regulated		
IMO/IMDG	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIQUID EPOXY RESIN)	Class 9 III	
IATA (Cargo)	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (LIQUID EPOXY RESIN)	Class 9 III	
Not regulated by	D.O.T. if in a	container of 119 gallon capacity of	r less.	
*PG : Packing gr	oup			
Environmentally	v hazardous :	and/or Marine Pollutant	: Yes.	¥2
Special precauti	ons for user	containers that are u	pright and secure. E	rs transport in closed Ensure that persons to in the event of an accide

Section 15. Regulatory information

U.S. Federal regulations	:	United States - TSCA 12(b) - Chemical export notification: None required. United States - TSCA 5(a)2 - Final significant new use rules: Not listed United States - TSCA 5(a)2 - Proposed significant new use rules: Not listed United States - TSCA 5(e) - Substances consent order: Not listed SARA 311/312 Classification - Fire hazard, Immediate (acute) health
		SARA 311/312 Classification - Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard

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California Prop. 65: : WARNING: This product contains less than 0.1% of a chemical known to the State of California to cause cancer., WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
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Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Oxirane, 2-(chloromethyl)-	Yes.	Yes.	9 μg/day	No.
Phenol, 4,4'-(1- methylethylidene)bis-	No.	Yes.	No.	No.
Oxirane, 2-(phenoxymethyl)-	Yes.	No.	5 μg/day	No.
Oxirane, 2,2'- [oxybis(methylene)]bis-	No.	Yes.	No.	No.
Oxirane, 2-(butoxymethyl)-	No.	Yes.	No.	No.

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

International regulations

International lists: Australia inventory (AICS): All components are listed or exempted.
Canada inventory: All components are listed or exempted.
Japan inventory: Not determined.
China inventory (IECSC): All components are listed or exempted.
Korea inventory: All components are listed or exempted.
New Zealand Inventory (NZIoC): All components are listed or exempted.
Philippines inventory (TSCA 8b): All components are listed or exempted.
United States inventory (CSNN): All components are listed or exempted.

Section 16. Other information

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

Health	*	2
Flammability		2
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4

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representing significant hazards or risks Although HMIS® ratings are not required on MSDSs 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. The customer is responsible for determining the PPE code for this material.

Full text of abbreviated H statements	:	Not applicable.
History		
Date of printing Date of issue/Date of revision Date of previous issue Version Prepared by Key to abbreviations	::::::	07/24/2017 05/31/2017 02/27/2017 5.0 Product Safety Stewardship ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail UN = United Nations
References	:	Not available

Notice to reader

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