

SAFETY DATA SHEET

FOR INDUSTRIAL USE ONLY

EPONTM Resin 8132

Section 1. Product and company identification

GHS product identifier MSDS Number Product type	:	EPON TM Resin 8132 K144A Epoxy Resin
Manufacturer/Supplier/Importer	:	Westlake Epoxy Inc. 12650 DIRECTORS DR STE 100 Stafford, Texas 77477 USA
Contact person Telephone Emergency telephone number	:	epoxyservice@westlake.com For additional health and safety or regulatory information, call 1 888 443 9466. 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 substa mixture	nce or : SKIN IRRITATION EYE IRRITATION SKIN SENSITISATI	- Category 2A
GHS label elements		
Hazard pictograms	*	
Signal word Hazard statements	 Warning H315 Causes skin in H319 Causes seriou H317 May cause ar 	
<u>Precautionary statements</u>		
General	: Not applicable.	
Prevention	: Wear protective glo	ves.
Version: 22.2	Date of issue/Date of revision: 04/21/20.	22 Date of previous issue:

01/25/2016

		Wear eye or face protection. Avoid breathing vapor. Wash thoroughly after handling.
Response	:	Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or 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 advice or attention.
Storage	:	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Other hazards which do not result in classification	:	None known.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	% by weight	CAS number
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	75 - 90	25068-38-6
Oxirane, Mono[(C12-14-alkyloxy)methyl] Derivs.	10 - 25	68609-97-2

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

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.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained

Version: 22.2

Skin contact	 personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. 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. 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 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 adverse health effects persist or are severe. 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. 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, alcohol-resistant foam or water spray (fog). Do not use water jet.
Specific hazards arising from the chemical Hazardous thermal decomposition products	:	In a fire or if heated, a pressure increase will occur and the container may burst. Decomposition products may include the following materials: 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.
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. 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).
Methods and material for containment	and	cleaning up
Small 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. Dispose of via a licensed waste disposal contractor.
Large spill	:	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). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 of SDS for emergency contact information and 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. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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 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 of SDS) and food and drink. 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
4,4'-Isopropylidenediphenol- Epichlorohydrin Copolymer	None.
Oxirane, Mono[(C12-14- alkyloxy)methyl] Derivs.	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. 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.
Appropriate engineering controls :	No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
Environmental exposure controls :	
Individual protection measures	
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.
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: Greater than 93.33 °C (199.99 °F) (ASTM D 3828)
Burning time Burning rate Evaporation rate Flammability (solid, gas) Lower and upper explosive (flammable) limits Vapor pressure Vapor density Relative density		Not available Not available Not available Not available Lower: Not available Upper: Not available Less than < 1.33 mbar Greater than 1 [Air = 1] 1.1

Solubility Solubility in water	Not availableSlightly	
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). Extremes of temperature and direct sunlight. Surfaces that are sufficiently hot may ignite even liquid product in the absence of sparks or flame.
Incompatible materials	:	Reactive or incompatible with the following materials: strong oxidizing agents, strong acids, aliphatic amines,
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Other hazards		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

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure		
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer						
	LD50 Oral	Rat	11,400 mg/kg	-		
	LD50 Dermal	Rat	2,000 mg/kg	-		
0 1	. N. (4 1 1				

Conclusion/Summary

: Not available

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
4,4'-Isopropylidenediphenol- Epichlorohydrin Copolymer	Skin - Erythema/E schar 404 Acute Dermal	Rabbit	1.5 - 2		-
	Irritation/Co rrosion				
	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 conjunctiva e	Rabbit	0.7		-
	Skin - Moderate irritant	Rabbit		24 hrs	-
	Skin - Severe irritant	Rabbit		24 hrs	-
	eyes - Mild irritant	Rabbit			-
Oxirane, Mono[(C12-14- alkyloxy)methyl] Derivs.	Skin - Primary dermal irritation index (PDII) OTS 798.4470 Acute Dermal Irritation	Rabbit	4.1	24 hrs	72 hrs
	Skin - Primary dermal irritation index (PDII) 404 Acute Dermal Irritation/Co rrosion	Rabbit	5.75	24 hrs	72 hrs
	eyes -	Rabbit	2		1 - 24 hrs

	Cornea			
	opacity 405			
	Acute Eye			
	Irritation/Co			
	rrosion			
	Skin -	Rabbit	24 hrs	-
	Moderate			
	irritant			
Conclusion/Summary				
Skin		vailable		
eyes	: Not av	vailable		
Respiratory	: Not av	vailable		
Sensitization				
Conclusion/Summary				
Skin		vailable		
Respiratory	: Not a	vailable		

Mutagenicity

Product/ingredient name	Test		Experiment	Result	
4,4'-Isopropylidenediphenol-	-		; Mammalian-	Negative	
Epichlorohydrin Copolymer			Animal		
Remarks:				mouse dominant lethal oral	
	0 0		· ·	grams/kg and in a mouse	
				mg/kg. Negative in a male	
				for 5 days by oral gavage up	
		lose of 3000 mg/kg. Did			
				w cytogenetic test by oral	
				luce an increase of DNA	
			wing oral gavage tr	eatment with 500 mg/kg as	
	measured	by alkaline elution.			
Conclusion/Summary	:	Not available			
<u>Carcinogenicity</u>					
<u>Car emogementy</u>					
Conclusion/Summary	:	Not available			
<u>Reproductive toxicity</u>					
		NT / 111			
Conclusion/Summary	:	Not available			
<u>Teratogenicity</u>					
Conclusion/Summary	:	Not available			
Specific target organ toxicity (single exposure)					
Not available	(SINGIC CAP	<u> </u>			
Specific target organ toxicity (repeated exposure)					
Not available					
<u>Aspiration hazard</u>					
Not available					

Pretential enure health effects::Causes serious eye initation. ::No known significant effects or critical hazards. ::Causes skin initation. May cause an allergie skin reaction. ::Causes skin initation. May cause an allergie skin reaction.Causes skin initation. May cause an allergie skin reaction. ::Causes skin initation. May cause an allergie skin reaction.Causes skin initation. May cause an allergie skin reaction.Free contact::	Information on likely routes of exposure	:	Not available
Inhalation:No known significant effects or critical hazards.Skin contact:Causes skin irritation. May cause an allergic skin reaction.Ingestion:No known significant effects or critical hazards.Symptoms related to the physical, chemical and toxicological characteristicsEye contact:Adverse symptoms may include the following: pain or irritation watering rednessInhalation:No specific data.Skin contact:Adverse symptoms may include the following: irritation rednessInhalation:No specific data.Skin contact:Adverse symptoms may include the following: irritation rednessIngestion:No specific data.Delayed and immediate effects as well as chronic effects from short and long-term exposureShort term exposurePotential immediate effects:Not availablePotential immediate effects:Not availablePotential delayed effects:Not availablePotential delayed effects:Not availablePotential chronic health effects:Not availableConclusion/Summary:Not availableGeneral::No known significant effects or critical hazards.Carcinogenicity:No known significant effects or critical hazards.Carcinogenicity:No known significant effects or critical hazards.Eretility effects:No known significant effects or critical hazards.Eretility effects:No known significant effe	Potential acute health effects		
Fye 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 Inhalation : No specific data. Skin contact : Adverse symptoms may include the following: irritation redness Ingestion : No specific data. Delayed and immediate effects as well as chronic effects from short and long-term exposure Short term exposure Potential immediate effects : Not available Potential immediate effects : Not available Potential immediate effects : Not available Potential chronic health effects : Not available Potential chronic health effects : Not available Potential chronic health effects : Not available General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Carcinogenicity : No known significant effects or critical hazards. Teratogenicity : No known significant effects or critical hazards.	Inhalation Skin contact	:	No known significant effects or critical hazards. Causes skin irritation. May cause an allergic skin reaction.
pain or irritation watering rednessInhalation:No specific data.Skin contact:Adverse symptoms may include the following: irritation rednessIngestion:No specific data.Delayed and immediate effects as well as chronic effects from short and long-term exposureShort term exposurePotential immediate effects:Not availablePotential delayed effects:Not availablePotential delayed effects:Not availablePotential delayed effects:Not availablePotential delayed effects:Not availablePotential chronic health effects:Not availablePotential chronic health effects:Conclusion/Summary::Not availableGeneral::: <th>Symptoms related to the physical, ch</th> <th>nemic</th> <th>cal and toxicological characteristics</th>	Symptoms related to the physical, ch	nemic	cal and toxicological characteristics
Skin contact :: Adverse symptoms may include the following: irritation redness Ingestion :: No specific data. Delayed and immediate effects as well as chronic effects from short and long-term exposure Short term exposure Potential immediate effects :: Not available Potential delayed effects :: Not available Long term exposure : Not available Potential delayed effects :: Not available Potential delayed effects :: Not available Potential delayed effects :: Not available Potential chronic health effects :: Not available Potential chronic health effects :: Not available General :: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Carcinogenicity :: No known significant effects or critical hazards. Mutagenicity :: No known significant effects or critical hazards. Developmental effects :: No known significant effects or critical hazards. Developmental effects :: No known significant effects or critical hazards. Developmen	Eye contact	:	pain or irritation watering
irritation redness Ingestion : No specific data. Delayed and immediate effects as well as chronic effects from short and long-term exposure Short term exposure Potential immediate effects : Not available Potential delayed effects : Not available Long term exposure . Not available Potential immediate effects : Not available Potential delayed effects : Not available Potential chronic health effects : Not available Potential chronic health effects : Not available General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Carcinogenicity : No known significant effects or critical hazards. Teratogenicity : No known significant effects or critical hazards. Developmental effects : No known significant effects or critical hazards. Developmental effects : No known significant effects or critical hazards. Developmental effects : No known significant effects or critical hazards. Developmental effects : No known signifi		:	*
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Potential delayed effects: Not availableLong term exposure	Short term exposure		
Potential immediate effects:Not availablePotential delayed effects:Not availablePotential chronic health effects:Not availableConclusion/Summary:Not availableGeneral:Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.Carcinogenicity:No known significant effects or critical hazards.Mutagenicity: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 measures of toxicity:No known significant effects or critical hazards.		:	
Potential delayed effects: Not availablePotential chronic health effects: Not availableConclusion/Summary: Not availableGeneral: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: 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 measures of toxicity: No known significant effects or critical hazards.	Long term exposure		
Conclusion/Summary: Not availableGeneral: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.Carcinogenicity: No known significant effects or critical hazards.Mutagenicity: No known significant effects or critical hazards.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 measures of toxicity: No known significant effects or critical hazards.		:	
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Fertility effects : No known significant effects or critical hazards. Numerical measures of toxicity		:	
		:	
	-		-

No data available.

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
bis-[4-(2,3-epoxipropoxi)pheny	l]propane		
	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		
oxirane, mono[(C12-14-alkylox	y)methyl] derivs.		
	Acute LC50 > 1.8 g/l - 203 Fish, Acute	Fish - Rainbow	96 h
	Toxicity Test	trout,donaldson trout	
	Acute LC50 > 5.0 g/l - 203 Fish, Acute	Fish - Bluegill	96 h
	Toxicity Test		
	Acute LC50 > 100.0 mg/l - 203 Fish,	Fish - Rainbow	96 h
	Acute Toxicity Test	trout,donaldson trout	
	Acute EC50 7.2 mg/l - 202 Daphnia	Aquatic invertebrates.	48 h
	sp. Acute Immobilization Test and	Water flea	
	Reproduction Test		
	Acute EC50 844 mg/l - 201 Alga,	Aquatic plants - Algae	72 h
	Growth Inhibition Test		

Conclusion/Summary

: Not available

Persistence/degradability

Conclusion/Summary : Not available

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
bis-[4-(2,3-	2.64 - 3.78	3 - 31 31.00	low
epoxipropoxi)phenyl]propane			
oxirane, mono[(C12-14-	3.77	160 - 263 160.00	low
alkyloxy)methyl] derivs.			

Mobility in soil

Soil/water partition coefficient	:	Not available
(KOC)		
Other adverse effects	:	No known sig

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

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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.

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.

International tra	unsport regul	lations		
Regulatory	UN/NA	Proper shipping name	Classes/*PG	Reportable
information CFR	number	Non-regulated		Quantity (RQ)
TDG		Non-regulated		
IMO/IMDG	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATIVES)	Class 9 III	
IATA (Cargo)	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATIVES)	Class 9 III	
*PG : Packing gro	oup			
Environmentally	hazardous a	and/or Marine Pollutant	: Yes.	¥2
Special precautio	ons for user	containers that are	ser's premises: always upright and secure. En oduct know what to do	-
Section 15	. Regula	tory information		

Section 15. Regulatory шогшацоп

:

United States

HCS Classification

Irritating material Sensitizing material

		Target organ effects
U.S. Federal regulations	:	United States - TSCA 12(b) - Chemical export notification: None required.
		United States - TSCA 5a2 - Final significant new use rules: Not listed
		United States - TSCA 5a2 - Proposed significant new use rules: Not
		listed
		United States - TSCA 5(e) - Substances consent order: Not listed
		SARA 311/312 Classification - SKIN IRRITATION, Category 2
		SARA 311/312 Classification - EYE IRRITATION, Category 2A
		SARA 311/312 Classification - SKIN SENSITISATION, Category 1
		SARA 311/312 Classification - Not applicable

California Prop. 65:

WARNING: This product may contain one or more chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

United States inventory (TSCA	:	All components are active 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: All components are listed or exempted. China inventory (IECSC): All components are listed or exempted. Korea inventory (KECI): All components are listed or exempted. New Zealand Inventory (NZIoC): All components are listed or exempted. Philippines inventory (TSCA 8b): All components are active or exempted. United States inventory (TCSI): All components are listed or exempted.

Section 16. Other information

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

Health	*	2
Flammability		1
Physical hazards		0

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 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. For more information on HMIS[®] Personal Protective Equipment (PPE) codes, consult the HMIS[®] Implementation Manual.

Full text of abbreviated H : Not applicable. statements

<u>History</u>

Date of printing Date of issue/Date of revision Date of previous issue Version Prepared by Key to abbreviations		08/12/2022 04/21/2022 01/25/2016 22.2 Product Safety Stewardship ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IAT A = International Air Transport Association IBC = Internediate Bulk Container IMDG = 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
References	:	UN = United Nations Not available

Notice to reader

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.