

SAFETY DATA SHEET

FOR INDUSTRIAL USE ONLY

EPIKURE™ Curing Agent 3282

Section 1. Product and company identification

GHS product identifier : EPIKURE[™] Curing Agent 3282

MSDS Number : K814L
Product type : Curing Agent

Manufacturer/Supplier/Importer : Westlake Epoxy Inc.

12650 DIRECTORS DR STE 100

Stafford, Texas 77477

USA

Contact person : epoxyservice@westlake.com

Telephone : For additional health and safety or regulatory information, call

1 380 251 9900

Emergency telephone number : For Emergency Medical Assistance

Call Health & Safety Information Services

1-866-303-6949

For Emergency Transportation Information CHEMTREC US Domestic (800) 262-8200 CANUTEC CA Domestic (613) 996-6666

Section 2. Hazards identification

Classification of the substance or

mixture

SKIN CORROSION - Category 1B SERIOUS EYE DAMAGE - Category 1 SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 2

TOXIC TO REPRODUCTION - Category 2

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

[nervous system] - Category 2

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

Respiratory tract irritation - Category 3

GHS label elements

Hazard pictograms

Signal word : Dange

Hazard statements : H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H371 May cause damage to organs. (nervous system)

H335 May cause respiratory irritation.

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, protective clothing and eye or face protection.

Use only outdoors or in a well-ventilated area.

Do not breathe vapor.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Response : IF exposed or concerned:

Call a POISON CENTER or doctor.

IF INHALED:

Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER or doctor.

IF SWALLOWED:

Immediately call a POISON CENTER or doctor.

Rinse mouth. Do NOT induce vomiting.

IF ON SKIN (or hair):

Take off immediately all contaminated clothing. Rinse skin with water.

Immediately call a POISON CENTER or doctor. 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. Immediately call a POISON CENTER or doctor.

Storage : Store locked up.

Store in a well-ventilated place. Keep container tightly closed.

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

Polyethylenepolyamine Epoxy Adduct (Proprietary)	* *
4,4'-Isopropylidenediphenol	80-05-7

Diethylenetriamine	111-40-0
Oxirane, 2-(butoxymethyl)-	2426-08-6

^{**} The specific chemical identity/proportion of this component is considered trade secret information in accordance with 29 CFR 1910.1200.

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact

Skin contact

Ingestion

Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be

treated promptly by a physician.

Get medical attention immediately. 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. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

Get medical attention immediately. Call a poison center or physician.

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. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing

before reuse. Clean shoes thoroughly before reuse.

Get medical attention immediately. Call a poison center or physician.

Wash out mouth with water. Remove dentures if any. 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. Chemical burns must be treated promptly by a 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 In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under

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medical surveillance for 48 hours.

Specific treatments

Protection of first aid personnel

No specific treatment.

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, 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 nitrogen oxides

Special protective actions for firefighters

Special protective equipment 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.

Fire-fighters should wear appropriate protective equipment and selfcontained 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. Do not breathe 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

Large spill

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.

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

2 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. Avoid exposure during pregnancy. 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. 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. 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

Polyethylenepolyamine Epoxy Adduct (Proprietary)	None.
4,4'-Isopropylidenediphenol	None.
Diethylenetriamine	NIOSH REL (1994-06-01) TWA 4 mg/m3 1 ppm Notes: Absorbed through skin ACGIH TLV (1994-09-01) TWA 4.2 mg/m3 1 ppm Notes: Absorbed through skin OSHA PEL 1989 (1989-03-01) TWA 4 mg/m3 1 ppm
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

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.

Appropriate engineering controls

Use only with adequate ventilation. 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

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

: 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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

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 protectionAppropriate 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 stateViscous liquid.ColorReddish-brown

Odor : amine.
Odor threshold : Not available

pH : Not available

Melting point/ Freezing point : Not available **Boiling point** : 207 °C (405 °F)

Flash point : Pensky-Martens Closed Cup: 105 °C (221 °F) (ASTM D 93)

Burning time: Not availableBurning rate: Not availableEvaporation rate: Not available

Flammability (solid, gas) : Not available

Lower and upper explosive : Lower: 1.4 %(V)

(flammable) limits : Upper: Not available

Vapor pressure : Less than 13.33 Pa @ 20 °C (68 °F)

Vapor density : Not available

Relative density : Not available

Density : 1,090 kg/m3

Solubility : Not available Solubility in water : Partial

Partition coefficient: n-

octanol/water

Not available Not applicable.

Auto-ignition temperature:Not availableDecomposition temperature:Not availableSADT:Not available

Viscosity : **Dynamic:** 60 - 150 Pa·s @ 25 °C (77 °F)

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 : Strong oxidizer, Keep away from heat, sparks, flame and other

ignition sources. Exposure to water vapour.

Incompatible materials : strong acids,

strong oxidizing agents,

Hazardous decomposition products : 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	Result	Species	Dose	Exposure	
4,4'-Isopropylidenediphenol					
	LD50 Oral	Rat - female	4,100 mg/kg	-	
	LD50 Oral	Rat - Male	5,200 mg/kg	-	
Remarks - Inhalation:	No applicable toxic	city data.			
	LD50 Dermal	Rabbit	3,000 mg/kg	=	
Diethylenetriamine					
	LD50 Oral	Rat	1,080 mg/kg	-	

Remarks - Inhalation:	No applicable toxicity data.					
	LD50 Dermal	Rabbit	1,090 mg/kg	=		
Oxirane, 2-(butoxymethyl)-						
	LD50 Oral	Rat	1,660 mg/kg	-		
	LD50 Oral	Rat	1,660 mg/kg	-		
	LC50 Inhalation	Rat		8 h		
Remarks - Inhalation:	Eye - Lacrimation	Gastrointestinal - Char	nges in structure or fun	ction of salivary		
	glands Lung, Thora	glands Lung, Thorax, or Respiration - Dyspnea				
Remarks - Inhalation:	No applicable toxicity data.					
	LD50 Dermal	Rat	> 2,150 mg/kg	=		
	LD50 Dermal	Rat	> 2,150 mg/kg	=		

Conclusion/Summary : Not available

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
4,4'-Isopropylidenediphenol	Skin - Erythema/E schar Acute Dermal Irritation/Co rrosion	Rabbit	0	4 hrs	1 - 72 hrs
	Skin - Edema Acute Dermal Irritation/Co	Rabbit	0	4 hrs	1 - 72 hrs
	Eyes - Cornea opacity Acute Eye Irritation/Co	Rabbit	1		-
	Eyes - Iris lesion Acute Eye Irritation/Co rrosion	Rabbit	1		-
	Eyes - Redness of the conjunctiva e Acute Eye Irritation/Co rrosion	Rabbit	1		-
	Eyes - Edema of the conjunctiva e Acute Eye Irritation/Co rrosion	Rabbit	1 - 2		-

Diethylenetriamine	Skin - Moderate irritant	Rabbit		-
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		-

Conclusion/Summary

Skin:Not availableEyes:Not availableRespiratory:Not available

Sensitization

Conclusion/Summary

Skin: Not availableRespiratory: Not available

Mutagenicity

Product/ingredient name	Test	Experiment	Result
4,4'-Isopropylidenediphenol	-	; Mammalian-	Negative
		Animal	
Remarks:	Does not induce evidence of gene Bisphenol A is capable of producin administration and 32p post-labeling is unknown.	ng DNA adduct spot	s in rat liver following oral

Conclusion/Summary : Not available

Carcinogenicity

Conclusion/Summary : Not available

Reproductive toxicity

Conclusion/Summary : See below for potential chronic health effects

Teratogenicity

Conclusion/Summary : Not available

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Phenol, 4,4'-(1-	Category 3	-	Respiratory tract irritation
methylethylidene)bis-			
1,2-Ethanediamine, N1-(2-	Category 2	-	nervous system

aminoethyl)-			
	Category 3	-	Respiratory tract irritation
Oxirane, 2-(butoxymethyl)-	Category 2	-	eyes
	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Not available

Information on likely routes of

exposure

Not available

Potential acute health effects

Causes serious eve damage. Eve contact

Inhalation May cause damage to organs following a single exposure if inhaled.

May cause respiratory irritation.

Skin contact Causes severe burns. May cause an allergic skin reaction. Ingestion May cause damage to organs following a single exposure if

swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact Adverse symptoms may include the following:

pain watering redness

Inhalation Adverse symptoms may include the following:

respiratory tract irritation

coughing

reduced fetal weight increase in fetal deaths skeletal malformations

Adverse symptoms may include the following: Skin contact

pain or irritation

redness

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion Adverse symptoms may include the following:

stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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Short term exposure

Potential immediate effects : Not available
Potential delayed effects : Not available

Long term exposure

Potential immediate effects: Not availablePotential delayed effects: Not available

Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
4,4'-Isopropylidenediphenol		-		-
Remarks:	Bisphenol A (BPA) has been extensively tested in a wide variety of toxicological and biological tests, and has undergone many reviews internationally by a variety of governmental agencies. Many of these studies have focused on reproductive, developmental and endocrine endpoints. However, the human data is limited and insufficient to evaluate reproductive toxicity. While some studies show, or claim to show, target organ toxicity, fertility, or reproductive effects in humans; these studies lack internal and external validity as a result of flawed study design, multiple sources of bias, and lack of control for confounding factors.			
	reproductive effect reproductive effect observations have Comprehensive re- well designed anin toxicity (e.g., NTP Delclos et al. 2014 the oral route of ex experienced by hur toxicity was report doses where mater toxicity, kidney to- gains. The presenc and general system high doses of BPA	studies have been conducts from BPA exposure. As, many of these studies not been confirmed in larviews of the scientific literal studies as a robust for 1985; Ema et al. 2001; The constraint of the studies, BPA exposure including doses the mans, including workers, and, or treatment-related reposure of these clear toxic effection of these clear toxic effection of these studies of the section of the reproduct of the section of the s	although some studies suffer from design flager, more robust studies and the reacture on BPA have undation for assessingly et al. 2002a, 2002 was administered to that far exceed those. In these studies, either reproductive effects al. Maternal toxicity sions in body weigh except was consistent woment of the reproduction all concluded the	es report laws and reported dies. focused on several g BPA reproductive 2b; Tyl et al. 2008; rats and/or mice by potentially ther no reproductive were reported only at was manifest as liver t or body weight with the role of stress ctive effects at these
	the U.S. Departme Center of Toxicolo rodent toxicity stuc range of endpoints extent of reproduct do not support BPA Based on the total lack of robust epid	ril 6, 2015, the U.S. Food nt of Health & Human So ogical Research ("NCTR' dy designed to characteri, including reproductive tive, sperm and hormone A as a reproductive toxic weight of evidence of the emiological data for repr ata and the results of FD.	ervices reported that ") "recently complete ze potential effects of toxicity The resul parameters evaluate ant." e experimental anima oductive effects, we	FDA's National ed a large scale of BPA in a wide lts from the large d in the NCTR study al data, including the ll-established
	using expert judgment, there is insufficient scientific support to associate reproductive toxicity with BPA exposure in the absence of systemic toxicity. Because experimental animal studies have indicated potential for reproductive effects in association with maternal toxicity at high doses, BPA has been classified			

as a Category 2 suspected human reproductive toxicant as required by OSHA.

Conclusion/Summary:

Not available:

Conce sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity:
Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity:
No known significant effects or critical hazards.

Teratogenicity:
No known significant effects or critical hazards.

No known significant effects or critical hazards.

Suspected of damaging fertility or the unborn child.

Numerical measures of toxicity

Acute toxicity estimates

Fertility effects

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
EPIKURE [™] Curing Agent 3282	4341.6 mg/kg	4237.1 mg/kg	N/A	N/A	N/A
Phenol, 4,4'-(1- methylethylidene)bis-	4100 mg/kg	3000 mg/kg	N/A	N/A	N/A
1,2-Ethanediamine, N1-(2-aminoethyl)-	1080 mg/kg	1054 mg/kg	N/A	N/A	0.05 mg/l
Oxirane, 2-(butoxymethyl)-	1660 mg/kg	2500 mg/kg	N/A	11 mg/l	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
bisphenol A			
	Acute LC50 4.6 mg/l Fresh water	Fish - Fathead minnow	96 h
	Acute NOEC 0.016 mg/l Fresh water	Fish - Fathead minnow	444 d
	Chronic ecotoxicity		
	Acute LC50 2.7 mg/l Fresh water	Aquatic invertebrates. Water flea	48 h
	Acute EC50 2.73 mg/l Fresh water	Aquatic plants - Microalgae	96 h
	Acute NOEC 320 mg/l Fresh water	Micro-organism - Pseudomonas putida	-
	Chronic No observable effect concentration 0.016 mg/l Fresh water	Fish - Fathead minnow	444 d
	Chronic NOEC 1.8 mg/l Fresh water	Aquatic invertebrates. Water flea	-
2,2'-iminodiethylamine		•	
Remarks - Acute - Fish:	No applicable toxicity data.		
	Acute LC50 16 mg/l	Aquatic invertebrates. Daphnia	48 h
	Acute LC50 53,500 µg/l Fresh water	Aquatic invertebrates.	48 h

		Daphnia	
	Acute EC50 1,164 mg/l	Aquatic plants - Green	72 h
		algae	
	Acute EC50 345,600 µg/l Fresh water Aquatic plants - Algae		96 h
Remarks - Chronic - Fish:	No applicable toxicity data.		
Remarks - Chronic - Aquatic	No applicable toxicity data.		
invertebrates.:			
butyl glycidyl ether			
Remarks - Acute - Fish:	No applicable toxicity data.		
	Acute EC50 3.9 mg/l Fresh water	Aquatic invertebrates.	48 h
		Water flea	
Remarks - Acute - Aquatic	No applicable toxicity data.		
invertebrates.:			
Remarks - Acute - Aquatic	No applicable toxicity data.		
plants:			
Remarks - Chronic - Fish:	No applicable toxicity data.		
Remarks - Chronic - Aquatic	No applicable toxicity data.		
invertebrates.:			

Conclusion/Summary : Not available

Persistence/degradability

Conclusion/Summary : Not available

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
bisphenol A	3.4	73	low
2,2'-iminodiethylamine	-5.58	0.65 2.80 - 6.30	low
butyl glycidyl ether	0.63	-	low

Mobility in soil

Soil/Water partition coefficient : Not available

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. 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 transport regulations

Regulatory information	UN/NA number	Proper shipping name	Classes/*PG	Reportable Quantity (RQ)
CFR	2735	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Diethylenetriamine)	Class 8 II	
IMO/IMDG	2735	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Diethylenetriamine)	Class 8 II	
IATA (Cargo)	2735	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Diethylenetriamine)	Class 8 II	

*PG: Packing group

Environmentally hazardous and/or Marine Pollutant



Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Yes.

Section 15. Regulatory information

United States

U.S. Federal regulations

: TSCA 12(b) - Chemical export notification: None required.
TSCA 5α2 - Final significant new use rules: Not listed
TSCA 5α2 - Proposed significant new use rules: Not listed
TSCA 5(e) - Substances consent order: Not listed
SARA 311/312 Classification - SKIN CORROSION, Category 1B

SARA 311/312 Classification - SKIN CORROSION, Category 1B
SARA 311/312 Classification - SERIOUS EYE DAMAGE, Category 1
SARA 311/312 Classification - SKIN SENSITIZATION, Category 1
SARA 311/312 Classification - CARCINOGENICITY, Category 2
SARA 311/312 Classification - TOXIC TO REPRODUCTION, Category

2

SARA 311/312 Classification - SPECIFIC TARGET ORGAN TOXICITY

- SINGLE EXPOSURE, nervous system, Category 2

SARA 311/312 Classification - SPECIFIC TARGET ORGAN TOXICITY

- SINGLE EXPOSURE, Respiratory tract irritation, Category 3 **SARA 311/312 Classification** - Not applicable

SARA 313

Form R - Reporting requirements

Product name	CAS number
Phenol, 4,4'-(1-methylethylidene)bis-	80-05-7

Supplier notification

Product name	CAS number
Phenol, 4,4'-(1-methylethylidene)bis-	80-05-7

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

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 : 8b)

All components are active or exempted.

International regulations

International lists

: Australia inventory (AICS). All components are listed or exempted.

Canada. DSL - Domestic Substances List, part of CEPA (Canadian Environmental Protection Act) All components are listed or exempted.

Japan inventory (CSCL) All components are listed or exempted.

China. IECSC - Inventory of Existing Chemical Substances in China 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. PICCS - Philippines Inventory of Chemicals and Chemical**

Substances Not determined.

US. Toxic Substances Control Act as amended 15 U.S.C. 2606 Sec. 8 (b) All components are active or exempted

components are active or exempted.

Taiwan Chemical Substances Inventory (TCSI) All components are listed or exempted.

Section 16. Other information

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

inizations white an information system in (C.S.I.)		
Health	*	3
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

statements

Not applicable.

History

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Prepared by : Product Safety Stewardship Key to abbreviations : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate 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

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.