

# SAFETY DATA SHEET

FOR PROFESSIONAL USE ONLY

EPOXY H2O PART A

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## Section 1. Product and company identification

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GHS product identifier	EPOXYH2O PART A
Product type	Dispersion
Material uses	Epoxy Resin Systems
Manufacturer/Supplier	DURACORP 2664 Vista Pacific Oceanside, CA 92056 USA
Contact person	customerservice@prolinestamps.com
Telephone	760-758-7240
Emergency telephone number	For Emergency Transportation Information CHEMTREC US Domestic (800) 424-9300

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## Section 2. Hazards identification

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Classification of the substance or mixture

SKIN CORROSION/IRRITATION - Category 2  
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A  
SKIN SENSITISATION - Category 1  
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE  
[Respiratory tract irritation] - Category 3

### GHS label elements

Hazard pictograms



Signal word

Hazard statements

Warning  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.

**Precautionary statements**

General	Not applicable.
Prevention	<p>Wear protective gloves.          Wear eye or face protection.          Use only outdoors or in a well-ventilated area.          Avoid breathing vapor.          Wash hands thoroughly after handling.          Contaminated work clothing should not be allowed out of the workplace,</p>
Response	<p><b>IF INHALED:</b>          Remove victim to fresh air and keep at rest in a position comfortable for breathing.          Call a POISON CENTER or physician if you feel unwell.</p> <p><b>IF ON SKIN:</b>          Wash with plenty of soap and water.          Take off contaminated clothing.          Wash contaminated clothing before reuse.          If skin irritation or rash occurs:          Get medical attention,</p> <p><b>IF IN EYES:</b>          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.</p>
Storage	Store locked up.
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	90 - 100	25068-38-6

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.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. <b>If</b> it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. <b>If</b> not breathing, <b>if</b> breathing is irregular or <b>if</b> respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. <b>It</b> may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. <b>If</b> necessary, call a poison center or physician. <b>If</b> 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. 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. <b>If</b> material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop <b>if</b> the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. <b>If</b> vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention <b>if</b> adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. <b>If</b> 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. <b>If</b> it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. <b>It</b> 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)

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## Section 5. Fire-fighting measures

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### Extinguishing media

Suitable extinguishing media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	In a fire or if heated, a pressure increase will occur and the container may burst.

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

## Section 6. Accidental release measures

### Personal precautions, 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 SOS). 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. 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 SOS) 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

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.

#### 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

Eye/face protection 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 Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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**Section 9. Physical and chemical properties**

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Appearance

Physical state	Viscous liquid.
Color	Not available
Odor	Not available
Odor threshold	Not available
pH	Not available
Melting point/ Freezing point	Not available
Boiling point	200 °C (392 °F)
Flash point	Setaflash Closed Cup: Greater than 93.4 °C (200.1 °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 (flammable) limits	Lower: Not available Upper: Not available

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Vapor pressure	Not available
Vapor density	Not available
Relative density	1.16
Solubility	Not available
Solubility in water	Negligihle
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	Strong oxidizer, Caustic soda (sodium hydroxide) can induce vigorous polymerisation at temperatures around 200 °C,
Incompatible materials	strong oxidizing agents, sodium hydroxide,
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Other hazards	Polymerises exothermically with amines, mercaptans and Lewis acids at ambient temperature and above.

## Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer				
	LO50 Oral	Rat	11,400 mg/kg	-
	LO50 Dermal	Rat	2,000 mg/kg	-

Conclusion/Summary                                  Not available

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
4,4'-Isuprupylidenediphenul-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 conjunctiva e	Rabbit	0.7		-
	Skin - Moderate irritant	Rabbit		24 hrs	-
	Skin - Severe irritant	Rabbit		24 hrs	-
	eyes - Mild irritant	Rabbit			-

**Conclusion/Summary**

Skin Not available  
 eyes Not available  
 Respiratory Not available

**Sensitization**

**Conclusion/Summary**

Skin Not available  
 Respiratory Not available

**Mutagenicity**

**Conclusion/Summary**

Not available

**Carcinogenicity**

**Conclusion/Summary**

Not available

**Reproductive toxicity**

**Conclusion/Summary**

Not availahle

**Teratogenicity**



Conclusion/Summary Not available

**Specific target organ toxicity (single exposure)**

Product / ingredient name	Category	Route of exposure	Target organs
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	Category 3		Respiratory tract irritation

**Specific target organ toxicity (repeated exposure)**

Not available

**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	Irritating to mouth, throat and stomach.

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

Eye contact	Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	Adverse symptoms may include the following: respiratory tract irritation coughing
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**

Potential immediate effects	Not available
Potential delayed effects	Not available

**Potential chronic health effects**

Conclusion/Summary Not available

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

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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

Acute toxicity estimates

Not available

**Section 12. Ecological information**

Toxicity

Product/ingredient name	Result	Species	Exposure
bis-[4-(2,3-epoxipropoxy)phenyl]propane			
	Acute LC50 1.3 mg/l - 203 Fish, Acute Toxicity Test	Fish - Fish	96h
	Acute EC50 2.1 mg/l - 202 Daphnia sp. Acute Immobilization Test and Reproduction Test	Aquatic invertebrates. Water flea	48h
	Acute LC50 > 11 mg/l -	Aquatic plants - Algae	72h
	Chronic No-observable-effect-concentration 0.3 mg/l semi-static test 211 Daphnia Magna Reproduction Test	Aquatic invertebrates, Water flea	21 d

Conclusion/Summary Not available

Persistence/degradability

Conclusion/Summary Not available

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer	2.64-3.78	3-31 31.00	low

Mobility in soil

Soil/water partition coefficient (KOC) 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		Non-regulated		
TDG		Non-regulated		
IMO/IMDG	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer)	Class 9 III	
IATA (Cargo)	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer)	Class 9 III	

\*PG : Packing group

Environmentally hazardous and/or Marine Pollutant Yes.



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.

## Section 15. Regulatory information

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United States

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 S(e) - Substances consent order: Not listed  
 SARA 311/312 Classification - Immediate (acute) health hazard

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 less than 1 % of a chemical known to the State of California to cause birth defects or other reproductive harm.

United States inventory (TSCA 8b)

All components are listed or exempted.

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 (PICCS): All components are listed or exempted.  
 United States inventory (TSCA Sb): All components are listed or exempted.  
 Taiwan inventory (CSNN): All components are listed or exempted.

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## Section 16. Other information

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Hazardous Material Information System (HMIS) (GHS):		---
Health	2	
	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

## EPOXY H2O PART A

Date of printing	03/12/2020
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Date of previous issue	04/18/2018
Version	7.2
Prepared by	Product Safety Stewardship
Key to abbreviations	AIE = 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

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