



# SAFETY DATA SHEET

Conforms to the requirements of the United States Hazard Communication regulation 29 CFR 1910.1200

## SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

<b>PRODUCT NAME</b>	<b>EMULGEN BPA-2</b>
<b>PRODUCT CASRN</b>	<b>32492-61-8</b>
<b>PRODUCT DESCRIPTION</b>	Ethoxylated bisphenol-A
<b>SDS DOCUMENT No.</b>	S03883
<b>RECOMMENDED USES</b>	Product is intended for use as a raw material in chemical manufacturing

### RESPONSIBLE PARTY

Kao Specialties Americas LLC  
243 Woodbine Street  
P. O. Box 2316  
High Point, NC 27261  
Telephone: 1-800-727-2214

Refer to SECTION 16 for information regarding the  
MANUFACTURER(s) of this product

FOR ALL TRANSPORTATION ACCIDENTS, call Chemtrec at 800-424-9300 or 703-527-3887 for international collect calls.

## SECTION 2: HAZARD(S) IDENTIFICATION

### PRODUCT CLASSIFICATION per 29 CFR 1910.1200

<b>HAZARD CLASSIFICATION</b>	This product does not satisfy any of the criteria for a hazardous material per the guidelines established by the United Nations (Globally Harmonized System of Classification and Labelling of Chemicals) as specified in 29 CFR 1910.1200 Hazard Communication (2012).
<b>SIGNAL WORD</b>	Not Applicable
<b>HAZARD STATEMENTS</b>	Not Applicable

### RECOMMENDED SAFETY PRECAUTIONS

<b>INJURY PREVENTION</b>	<p>Good industrial hygiene practices should be followed when handling this material. Avoid contact with eyes and skin. Do not breathe dusts/fumes/vapors of this material.</p> <p>Wash thoroughly after handling.</p> <p>When necessary, use appropriate personal protective equipment to prevent injury.</p>
<b>EMERGENCY RESPONSE</b>	<p>IF IN EYES: rinse cautiously with water for 15 minutes. Remove contact lens, if present and easy to do. Continue rinsing. Seek medical attention if necessary</p> <p>IF ON SKIN: gently wash with plenty of soap and water.</p> <p>Call a POISON CONTROL CENTER or doctor if symptoms develop or you feel unwell.</p>
<b>PRODUCT STORAGE</b>	<p>The storage area must be protected by properly designed containment to prevent the release of product to groundwater or sewers.</p> <p>Keep container tightly closed when not in use.</p> <p>Store in a well ventilated area.</p>
<b>PRODUCT DISPOSAL</b>	<p>DISPOSE of product and containers in accordance with all applicable local, state, federal, and international regulations.</p>

**HAZARDS NOT OTHERWISE CLASSIFIED**

**PYROPHORIC GASES** | Not applicable

**SIMPLE ASPHYXIANTS** | Not applicable

**COMBUSTIBLE DUST** | Not applicable

Dust Classification	Minimum Ignition Energy (mJ)	Pmax (bar-g)	Rmax (bar/s)	Kst (bar-m/s)	Explosion Severity
Not Applicable					

Definitions for dust classifications are found in OSHA Instruction CPL 03-00-008 *Combustible Dust National Emphasis Program (reissued)* March 11, 2008, Appendix E, Section 5

**Other Known Hazards** | None

**FOR INFORMATION REGARDING ENVIRONMENTAL GHS CLASSIFICATION, REFER TO SECTION 12 BELOW**

**SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS**

Chemical Name	Common Name	CAS Number	Concentration (%)
Poly(oxy-1,2-ethanediyl), .alpha.,.alpha."-[(1-methylethylidene)di-4,1-phenylene]bis[.omeg a.-hydroxy-	Bisphenol-A, ethoxylated	32492-61-8	~ 100

If any items in the table above are described as CONFIDENTIAL, Kao Specialties Americas LLC considers this information to constitute a Trade Secret.

## SECTION 4: FIRST-AID MEASURES

<b>EYES</b>	Immediately flush eyes with plenty of water for at least 15 minutes. If necessary, seek medical attention.
<b>SKIN</b>	For skin contact, wash immediately with soap and water. If necessary, seek medical attention.
<b>INGESTION</b>	If the material is swallowed, get immediate medical attention or advice.
<b>INHALATION</b>	If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen.
<b>SYMPTOMS of EXPOSURE</b>	None known.
<b>NOTES to PHYSICIAN</b>	Provide general supportive measures and treat symptomatically.

## SECTION 5: FIRE-FIGHTING MEASURES

<b>FLAMMABLE PROPERTIES</b>	Refer to SECTION 9: Physical and Chemical Properties
<b>HAZARDOUS PRODUCTS of COMBUSTION</b>	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
<b>PROPERTIES THAT COULD INCREASE FIRE or EXPLOSION HAZARD</b>	No known hazards.
<b>EXTINGUISHING MEDIA</b>	Powder, alcohol-resistant foam, CO2 & sand
<b>FIRE-FIGHTING INSTRUCTIONS</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA ratings are found in SECTION 16

## SECTION 6: ACCIDENTAL RELEASE MEASURES

FOR ALL TRANSPORTATION ACCIDENTS, call Chemtrec at 800-424-9300 or 703-527-3887 for international collect calls.

### **RESPONSE TO SMALL SPILLS OF PRODUCT**

<b>SPILL CONTAINMENT</b>	Stop the flow of material, if this is without risk.
<b>SPILL CLEANUP PROCEDURES</b>	Absorb spill with inert material. Shovel material into appropriate container for disposal. Thoroughly wash the area with water after a spill or leak clean-up.
<b>REQUIRED EQUIPMENT</b>	Shovel the material into waste container.
<b>ADDITIONAL INFORMATION</b>	No other spill procedures necessary.

### **RESPONSE TO LARGE SPILLS OF PRODUCT**

<b>SPILL CONTAINMENT</b>	Dike the spilled material, where this is possible.
<b>SPILL CLEANUP PROCEDURES</b>	Collect the spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Dispose of spent absorbent in an approved industrial waste landfill.
<b>REQUIRED EQUIPMENT</b>	No additional information on equipment.
<b>ADDITIONAL INFORMATION</b>	No other spill procedures necessary.

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## **SECTION 7: HANDLING AND STORAGE**

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<b>HANDLING REQUIREMENTS</b>	As with all chemicals, good industrial hygiene practices should be followed when handling this material. Avoid contact with skin and eyes. Do not breathe fumes or dust from this material. Wash thoroughly after handling.
<b>STORAGE REQUIREMENTS</b>	Keep the container tightly closed and in a cool, well-ventilated place.

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## **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

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<b>ENGINEERING CONTROLS</b>	Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
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### **PERSONAL PROTECTIVE EQUIPMENT**

<b>EYE/FACE PROTECTION</b>	Wear chemical goggles.
<b>HAND PROTECTION</b>	Use impervious gloves.

<b>SKIN PROTECTION</b>	Normal work clothing (long sleeved shirts and long pants) is recommended.
<b>RESPIRATORY PROTECTION</b>	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever there may be potential for airborne exposure.
<b>OTHER</b>	Eyewash fountains and emergency showers are required.

**EXPOSURE LIMITS**

CHEMICAL	CASRN	PERCENT	LIMITS	AGENCY
<b>OSHA:</b> No exposure limits established for this product				
<b>ACGIH:</b> No exposure limits established for this product				

**SECTION 9: PHYSICAL and CHEMICAL PROPERTIES**

<b>APPEARANCE @ 20°C</b>	White to Off-white Solid	<b>ODOR</b>	Mild odor
<b>ODOR THRESHOLD</b>	No data available	<b>pH</b>	5.5 - 7.5 (1% in 1 part ethanol/3 parts water)
<b>VAPOR DENSITY</b>	No data available	<b>VAPOR PRESSURE</b>	No data available
<b>EVAPORATION RATE</b>	No data available	<b>RELATIVE DENSITY</b>	1.11g/mL @ 125°C
<b>MELTING POINT (°C)</b>	102°C	<b>WATER SOLUBILITY</b>	Insoluble in water
<b>INITIAL BOILING POINT (°C)</b>	No data available	<b>BOILING RANGE (°C)</b>	No data available
<b>PARTITION COEFFICIENT (N-OCTANOL/WATER)</b>	No data available	<b>VISCOSITY</b>	1500 - 5000 cps @ 25°
<b>DECOMPOSITION TEMPERATURE</b>	No data available	<b>FLAMMABILITY CLASSIFICATION</b>	CLASS IIIB
<b>FLASH POINT (°C)</b>	> 100°C PENSKE-MARTENS CLOSED CUP	<b>AUTO-IGNITION TEMPERATURE</b>	No data available
<b>UPPER EXPLOSIVE LIMIT</b>	No data available	<b>LOWER EXPLOSIVE LIMIT</b>	No data available

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## SECTION 10: STABILITY and REACTIVITY

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**CHEMICAL STABILITY** | Stable under normal conditions.

**CONDITIONS to AVOID** | None known

**INCOMPATIBLE MATERIALS (Reactivity)** | None known.

**INCOMPATIBLE MATERIALS (Storage & Transport)** | No information available.

**HAZARDOUS DECOMPOSITION PRODUCTS** | None known.

**HAZARDOUS POLYMERIZATION** | Will not occur.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### ACUTE EFFECTS

**EYE EFFECTS** | No significant eye irritation can be expected from contact with this product.

**SKIN EFFECTS** | Not expected to be a primary skin irritant.

**ACUTE ORAL EFFECTS (INGESTION)** | Not a likely route of entry.

**ACUTE INHALATION EFFECTS** | Low vapor pressure makes inhalation unlikely at standard temperatures and pressures.

**TARGET ORGANS** | No known effects.

### CHRONIC EFFECTS

**MUTAGENICITY** | Ames Test TA98, TA100, TA1535, TA1537, WP2uvrA: Negative (data on equivalent product)

**TERATOLOGY** | No data available for this product.

**REPRODUCTIVE and DEVELOPMENTAL TOXICITY** | No information available.

## CARCINOGENICITY

CHEMICAL NAME	DATA	AGENCY	LIST
	None of the components of this product are listed on the OSHA Possible or Select Carcinogens Lists.		
	None of the components of this product are listed on the ACGIH Carcinogens List.		
	No limits established for this product by the International Agency for Research on Cancer (IARC).		
	None of the components of this product are listed on the NTP Known or Suspected Carcinogens List.		

## LETHAL DOSE (LD50 & LC50) DATA

<b>LD50 ORAL</b>	LD50 Oral Rat > 2000 mg/kg	(source: ECHA C&L database; data for similar product)
<b>MEDICAL CONDITIONS AGGRAVATED by EXPOSURE</b>	No information available.	
<b>ROUTES of ENTRY</b>	Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.	
<b>OTHER TOXICOLOGICAL INFORMATION</b>	Skin Corrosion/Irritation: Rabbit, 100%, 4 hr. semi-occluded application (OECD404): Not Classified (data on similar product)	

## **SECTION 12: ECOLOGICAL INFORMATION**

### UN GHS AQUATIC TOXICITY CLASSIFICATION INFORMATION

<b>AQUATIC TOXICITY CLASSIFICATION</b>	Chronic 3
<b>SIGNAL WORD</b>	Not applicable
<b>HAZARD PICTOGRAM</b>	Not applicable
<b>HAZARD STATEMENT</b>	Harmful to aquatic life with long lasting effects.
<b>PREVENTION</b>	Avoid release to the environment.
<b>RESPONSE</b>	Not applicable
<b>DISPOSAL</b>	Dispose of contents and container in accordance with local, national, and international regulations for hazardous wastes.

### **ADDITIONAL ENVIRONMENTAL INFORMATION**

<b>AQUATIC TOXICITY</b>	96 hr LC50 Rainbow Trout : 52 - 77 mg/L [semi-static] 96 hr LC50 Red Killfish : 20.8 mg/L [static] (source: ECHA C&L database; data for similar product) 48 hr EC50 daphnia magna > 33.58 mg/L [static] (source: ECHA C&L database; data for similar product)
<b>ECOTOX. INFORMATION</b>	None determined
<b>ENVIRONMENTAL FATE</b>	Material is poorly biodegradable
<b>BIOLOGICAL OXYGEN DEMAND (BOD5), g/g</b>	No data available
<b>CHEMICAL OXYGEN DEMAND (COD), g/g</b>	No data available
<b>PERSISTENCE &amp; DEGRADABILITY</b>	CO2 Evolution test (OECD 301B): 13% degraded in 28 days; not readily biodegradable (data for similar material)
<b>BIOACCUMULATION</b>	No information available

### **SECTION 13: DISPOSAL CONSIDERATIONS**

<b>WASTE DESCRIPTION</b>	Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.
<b>GENERAL DISPOSAL CONSIDERATIONS</b>	Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations.
<b>DISPOSAL of EMPTY CONTAINERS</b>	Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

<b>RCRA COMPONENT</b>	<b>CASRN</b>	<b>DATA</b>
No limits established for this product.		

### **SECTION 14: TRANSPORT INFORMATION**

	<b>US DOT</b>	<b>IATA</b>	<b>IMDG</b>
<b>UN NUMBER</b>	UN3257	UN3257	UN3257

<b>UN PROPER SHIPPING NAME</b>	Elevated temperature liquid, n.o.s.	Elevated temperature liquid, n.o.s.	Elevated temperature liquid, n.o.s.
<b>TRANSPORT HAZARD CLASS(ES)</b>	9	9	9
<b>PACKING GROUP</b>	III	III	III
<b>REPORTABLE QUANTITY (RQ)</b>	No reportable quantity for this product		
<b>EMERGENCY RESPONSE GUIDEBOOK (ERG) REFERENCE</b>	128		
<b>MARINE POLLUTANT</b>	None		

## SECTION 15: REGULATORY INFORMATION

<b>TOXIC SUBSTANCES CONTROL ACT (TSCA)</b>	This product is listed on the U.S. EPA TSCA Inventory.
<b>EXPORT NOTIFICATIONS</b>	This product is not subject to TSCA 12B Export Notification requirements.
<b>SIGNIFICANT NEW USE RULE (SNUR)</b>	This material is not subject to a Significant New Use Rule under the US Toxic Substances Control Act.

### INTERNATIONAL CHEMICAL INVENTORIES

All of the components of this product are listed on the following inventories:

<b>DSL</b>	Canada	Yes	
<b>NDSL</b>	Canada	No	
<b>ENCS</b>	Japan	Yes	Registry No. 4-916X
<b>EINECS</b>	Europe	No	Polymer
<b>ELINCS</b>	Europe	No	
<b>IECSC</b>	China	Yes	
<b>PICCS</b>	Philippines	Yes	
<b>ECL</b>	Korea	Yes	Registry No. KE-24089
<b>AICS</b>	Australia	Yes	

**EMERGENCY PLANNING and COMMUNITY RIGHT TO KNOW ACT (EPCRA)  
40 CFR PART 355, APPENDIX A**

<b>EHS COMPONENTS</b>	<b>CASRN</b>	<b>PERCENT</b>	<b>TPQ POUNDS and RQ</b>
No limits established for this product.			

<b>313 COMPONENTS</b>	<b>CASRN</b>	<b>PERCENT</b>	<b>REPORTING LIMIT</b>
No limits established for this product.			

<b>CERCLA/SARA COMPONENTS</b>	<b>CASRN</b>	<b>PERCENT</b>	<b>REPORTING LIMIT</b>
Ethylene oxide	75-21-8	20 ppm	10 lb final RQ; 4.54 kg final RQ
1,4-Diethylene oxide	123-91-1	20 ppm	100 lb final RQ; 45.4 kg final RQ

<b>EPCRA SECTION 311/312 CLASSIFICATION</b>	<b>ACUTE</b>	Yes
	<b>CHRONIC</b>	No
	<b>FIRE</b>	No
	<b>PRESSURE</b>	No
	<b>REACTIVE</b>	No

**OTHER FEDERAL REGULATIONS**

The following components are identified under the Clean Air Act HON-Rule for SOCMIs chemicals:

<b>COMPONENT NAME</b>	<b>CASRN</b>
No regulated components	

The following components are identified under the Clean Air Act (VOCs in SOCMIs chemicals):

<b>COMPONENT NAME</b>	<b>CASRN</b>
No regulated components	

The following components are identified under the Clean Air Act as Hazardous Air Pollutants (HAP)

<b>COMPONENT NAME</b>	<b>CASRN</b>
No regulated components	

The following components are identified under the Clean Air Act HON-Rule Hazardous Air Pollutants (HAP)

COMPONENT NAME	CASRN
No regulated components	

The following components are identified under the Clean Water Act:

COMPONENT NAME	CASRN	LIST NAME
No limits established for this product.		

**STATE RIGHT-TO-KNOW INFORMATION:**

COMPONENT NAME	CASRN	STATE	List Name
Ethylene oxide	75-21-8	California	PROP 65 Developmental Toxicity List
Ethylene oxide	75-21-8	California	PROP 65 Female Reproductive List
Ethylene oxide	75-21-8	California	PROP 65 Male Reproductive List
Ethylene oxide	75-21-8	California	PROP 65 No Significant Risk Levels List
1,4-Dioxane	123-91-1	California	PROP 65 No Significant Risk Levels List
Ethylene oxide	75-21-8	California	PROP 65 Cancer List
1,4-Dioxane	123-91-1	California	PROP 65 Cancer List

If the STATE RIGHT-TO-KNOW INFORMATION table above is empty than none of the components of this product are included on the state right-to-know regulatory lists for California, Florida, Massachusetts, Michigan, Pennsylvania, or New Jersey.

## SECTION 16: OTHER INFORMATION

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability (including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another, in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist.

<b>SDS GENERATED BY</b>	HAZEMS
<b>SDS VERSION DATE</b>	6/2/2015 3:40:38 PM

**SDS APPROVED BY** | Patrick B. Simcox  
Manager – Health, Safety, & Environmental  
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**MANUFACTURER(S)** | Kao Specialties Americas LLC  
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**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD RATINGS**

<b>HEALTH</b>	1
<b>FLAMMABILITY</b>	1
<b>REACTIVITY</b>	0

**Hazardous Material Identification System (HMIS) Hazard Ratings**

<b>HEALTH</b>	1
<b>FLAMMABILITY</b>	1
<b>REACTIVITY</b>	0
<b>PERSONAL PROTECTION</b>	D

The following components of this product are listed on the Canadian WHMIS Ingredient Disclosure List (IDL):

<b>COMPONENT</b>	<b>CASRN</b>	<b>PERCENT</b>	<b>MINIMUM CONCENTRATION</b>
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No regulatory limits established for this product.

**END OF DOCUMENT**