Kao Specialties Americas LLC

243 Woodbine Street • PO Box 2316 • High Point, NC 27261 USA Phone 336-884-2214 • Fax 336-884-8786



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

PRODUCT NAME Emulgen BPA-4
PRODUCT CASRN 32492-61-8

PRODUCT DESCRIPTION Ethoxylated bisphenol-A

SDS DOCUMENT No. S03888

RECOMMENDED USESProduct 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

HAZARD CLASSIFICATION

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).

SIGNAL WORD Not Applicable

HAZARD
STATEMENTS

Not Applicable

RECOMMENDED SAFETY PRECAUTIONS

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.

Wash thoroughly after handling.

When necessary, use appropriate personal protective equipment to prevent injury.

EMERGENCY RESPONSE

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

IF ON SKIN: gently wash with plenty of soap and water.

Call a POISON CONTROL CENTER or doctor if symptoms develop or you feel unwell.

PRODUCT STORAGE

INJURY PREVENTION

The storage area must be protected by properly designed containment to prevent the release of product to groundwater or sewers.

Keep container tightly closed when not in use.

Store in a well ventilated area.

PRODUCT DISPOSAL

DISPOSE of product and containers in accordance with all applicable local, state, federal, and international regulations.

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-	Bisphenol-A, ethoxylated	32492-61-8	~ 100
methylethylidene)di-4,1-	bisplicitor A, ethoxylatea	32432 01 0	100
phenylene]bis[.omeg ahydroxy-			

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

EYES Immediately flush eyes with plenty of water for at least 15 minutes. If necessary,

seek medical attention.

SKIN For skin contact, wash immediately with soap and water. If necessary, seek medical

attention.

INGESTION If the material is swallowed, get immediate medical attention or advice.

INHALATION If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing

is difficult, give oxygen.

SYMPTOMS of EXPOSURE

None known.

NOTES to PHYSICIAN Provide general supportive measures and treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE
PROPERTIES

Refer to SECTION 9: Physical and Chemical Properties

HAZARDOUS PRODUCTS of COMBUSTION

Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

PROPERTIES THAT COULD INCREASE FIRE OF EXPLOSION HAZARD

No known hazards.

EXTINGUISHING MEDIA

Powder, alcohol-resistant foam, CO2 & sand

FIRE-FIGHTING INSTRUCTIONS

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

SPILL CONTAINMENT Stop the flow of material, if this is without risk.

SPILL CLEANUP Absorb spill with inert material. Shovel material into appropriate container for

PROCEDURES disposal. Thoroughly wash the area with water after a spill or leak clean-up.

REQUIRED Shovel the material into waste container.

EQUIPMENT

ADDITIONAL No other spill procedures necessary.

RESPONSE TO LARGE SPILLS OF PRODUCT

SPILL CONTAINMENT Dike the spilled material, where this is possible.

SPILL CLEANUP Collect the spilled material with an inert absorbent such as sand or vermiculite.

PROCEDURES

Place in properly labeled closed container. Dispose of spent absorbent in an

approved industrial waste landfill.

REQUIRED

No additional information on equipment.

EQUIPMENT No additional information on equipment.

ADDITIONAL No other spill procedures necessary.

SECTION 7: HANDLING AND STORAGE

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.

STORAGE
REQUIREMENTS
Keep the container tightly closed and in a cool, well-ventilated place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING Provide adequate local exhaust ventilation to maintain worker exposure below

CONTROLS exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE
PROTECTION
Wear chemical goggles.

HAND PROTECTION Use impervious gloves.

SKIN PROTECTION Normal work clothing (long sleeved shirts and long pants) is recommended.

RESPIRATORY PROTECTION

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.

OTHER Eyewash fountains and emergency showers are required.

EXPOSURE LIMITS

CHEMICAL CASRN PERCENT LIMITS AGENCY

OSHA: No exposure limits established for this product ACGIH: No exposure limits established for this product

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE @ 20°C	Clear colorless to yellow liquid.	ODOR	Mild odor
ODOR THRESHOLD	No data available	рН	5.0 - 8.0 (1% solution in deionized water)
VAPOR DENSITY	No data available	VAPOR PRESSURE	No data available
EVAPORATION RATE	No data available	RELATIVE DENSITY	1.11g/mL @ 20°C
MELTING POINT (°C)	-15°C	WATER SOLUBILITY	Miscible
INITIAL BOILING POINT (°C)	No data available	BOILING RANGE (°C)	No data available
PARTITION COEFFICIENT (N- OCTANOL/WATER)	No data available	VISCOSITY	7000 - 11,000 cps @ 25°C
DECOMPOSITION TEMPERATURE	No data available	FLAMMABILITY CLASSIFICATION	CLASS IIIB
FLASH POINT (°C)	> 100°C PENSKE-MARTENS CLOSED CUP	AUTO-IGNITION TEMPERATURE	No data available
UPPER EXPLOSIVE LIMIT	No data available	LOWER EXPLOSIVE LIMIT	No data available

SECTION 10: STABILITY and REACTIVITY

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.

SECTION 11: TOXICOLOGICAL INFORMATION

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

Not a likely route of entry.

(INGESTION)

ACUTE INHALATION

EFFECTS

Low vapor pressure makes inhalation unlikely at standard temperatures and

pressures.

TARGET ORGANS

No known effects.

CHRONIC EFFECTS

MUTAGENCITY

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

LETHAL DOSE (LD50 & LC50) DATA

LD50 ORAL LD50 Oral Rat > 2000 mg/kg (source: ECHA C&L database; data for

similar product)

MEDICAL CONDITIONS AGGRAVATED by EXPOSURE

No information available.

ROUTES of ENTRY Routes of entry for solids and liquids include eye and skin contact, ingestion and

inhalation.

OTHER

TOXICOLOGICAL INFORMATION

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

AQUATIC TOXICITY CLASSIFICATION

Chronic 3

SIGNAL WORD Not applicable

HAZARD

PICTOGRAM Not applicable

HAZARD STATEMENT Harmful to aquatic life with long lasting effects.

PREVENTION Avoid release to the environment.

RESPONSE Not applicable

Dispose of contents and container in accordance with local, national, and

international regulations for hazardous wastes.

ADDITIONAL ENVIRONMENTAL INFORMATION

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

AQUATIC TOXICITY similar product)

48 hr EC50 daphnia magna > 33.58 mg/L [static] (source: ECHA C&L database; data

for similar product)

ECOTOX.
INFORMATION

None determined

ENVIRONMENTAL No data available for this product.

BIOLOGICAL OXYGEN DEMAND (BOD5), g/g

No data available

CHEMICAL OXYGEN
DEMAND (COD), g/g

No data available

PERSISTENCE & DEGRADABILITY

CO2 Evolution test (OECD 301B): 13% degraded in 28 days; not readily

biodegradable (data for similar material)

BIOACCUMLATION No information available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DESCRIPTION Wastes must be tested using methods described in 40 CFR Part 261 to determine if it

meets applicable definitions of hazardous wastes.

GENERAL DISPOSAL Clean up and dispose of waste in accordance with all federal, state, and local

CONSIDERATIONS environmental regulations.

DISPOSAL of EMPTY

Dispose of waste material according to Local, State, Federal, and Provincial

CONTAINERS Environmental Regulations.

RCRA COMPONENT CASRN DATA

No limits established for this product.

SECTION 14: TRANSPORT INFORMATION

	US DOT	IATA	IMDG
UN NUMBER	Not applicable	Not applicable	Not applicable
UN PROPER SHIPPING NAME	Non-hazardous material	Non-hazardous material	Non-hazardous material

 TRANSPORT HAZARD CLASS(ES)
 Not applicable
 Not applicable
 Not applicable

 PACKING GROUP
 Not applicable
 Not applicable
 Not applicable

REPORTABLE No reportable quantity
QUANTITY (RQ) for this product

EMERGENCY RESPONSE GUIDEBOOK (ERG)

Not applicable

REFERENCE

MARINE POLLUTANT | None

SECTION 15: REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA)

This product is listed on the U.S. EPA TSCA Inventory.

EXPORT NOTIFICATIONS

This product is not subject to TSCA 12B Export Notification requirements.

SIGNIFICANT NEW USE RULE (SNUR)

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:

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

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

EHS COMPON	IENTS	CASRN	PERC	ENT	TPQ POUNDS and RQ
No limits established for this product.		1			,
313 COMPONENTS		CASRN	PERC	ENT	REPORTING LIMIT
No limits established for product.	or this				
CERCLA/SARA COM	MPONENTS	CASRN	PERC	ENT	REPORTING LIMIT
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
	ACUTE	No			
EPCRA SECTION	CHRONIC	No			
311/312	FIRE	No			
CLASSIFICATION	PRESSURE	No			
	REACTIVE	No			
OTHER FEDERAL REGULATIONS The following components are identified under the Clean Air Act HON-Rule for SOCMI chemicals:					or SOCMI chemicals: CASRN
COMPONENT NAME No regulated components					CASKIT
No regulated components					
The following compon	ents are identif		n Air Act (V	OCs in SO	CMI chemicals): CASRN
No regulated components					
The following components are identified under the Clean Air Act as Hazardous Air Pollutants (HAP) COMPONENT NAME CASRN					
No regulated compone					
The following compon			n Air Act Ho	ON-Rule H	azardous Air Pollutants
COMPONENT NAME					CASRN

No regulated components

The following components are identified under the Clean Water Act:

COMPONENT NAME	CASRN	LIST NAME
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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
Ethylene oxide	73-21-6	Camornia	Toxicity List
Ethylene oxide	75-21-8	California	PROP 65 Female
Ethylene oxide	75-21-0	Camornia	Reproductive List
Ethylene oxide	75-21-8 California	California	PROP 65 Male
Ethylene oxide	73-21-6	Camornia	Reproductive List
Ethylene oxide	75-21-8	California	PROP 65 No Significant
Ethylene Oxide		Camornia	Risk Levels List
1.4 Dioyana	123-91-1	California	PROP 65 No Significant
1,4-Dioxane	125-91-1	Camornia	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.

SDS GENERATED BY HAZEMS

SDS VERSION DATE 6/2/2015 3:41:31 PM

Patrick B. Simcox

SDS APPROVED BY

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

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0

Hazardous Material Identification System (HMIS) Hazard Ratings

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PERSONAL	D
PROTECTION	

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

COMPONENT	CASRN	PERCENT	MINIMUM
COMPONENT	CASKIN	PERCEIVI	CONCENTRATION

END OF DOCUMENT