Kao Specialties Americas LLC

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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 220C PRODUCT CASRN 68439-49-6

PRODUCT DESCRIPTION Ethoxylated fatty alcohol

SDS DOCUMENT No. S03265

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

INJURY PREVENTION

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

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 Not applicable ASPHYXIANTS

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 (%)
Alcohols, C16-18, Ethoxylated	Polyoxyethylene Cetyl-Stearyl Ether	68439-49-6	99 - 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

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

seek medical attention.

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

attention.

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

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

is difficult, give oxygen.

SYMPTOMS of

None known. **EXPOSURE**

NOTES to PHYSICIAN | Provide general supportive measures and treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE Refer to SECTION 9: Physical and Chemical Properties **PROPERTIES**

HAZARDOUS Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or PRODUCTS of

low molecular weight hydrocarbons. **COMBUSTION**

PROPERTIES THAT COULD INCREASE No known hazards. **FIRE or EXPLOSION**

HAZARD

EXTINGUISHING Powder, alcohol-resistant foam, CO2 & sand **MEDIA**

FIRE-FIGHTING Firefighters should wear full protective clothing including self contained breathing **INSTRUCTIONS** 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. Contain the discharged material.

SPILL CLEANUP PROCEDURES

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

disposal.

REQUIRED EQUIPMENT

Shovel the material into waste container.

ADDITIONAL INFORMATION

No other spill procedures necessary.

RESPONSE TO LARGE SPILLS OF PRODUCT

SPILL CONTAINMENT

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent liquid from entering sewers. Keep out of drains and water courses.

SPILL CLEANUP PROCEDURES

Absorb spill with inert material. Shovel material into appropriate container for disposal. Wear appropriate protective equipment and clothing during clean-up. Thoroughly wash the area with water after a spill or leak clean-up. Dispose of spent absorbent in an approved industrial waste landfill.

REQUIRED EQUIPMENT

No additional information on equipment.

ADDITIONAL INFORMATION

Surfaces may become slippery after spillage. Have emergency equipment readily available. Remove soiled clothing and launder before reuse.

SECTION 7: HANDLING AND STORAGE

HANDLING REQUIREMENTS

As with all chemicals, good industrial hygiene practices should be followed when handling this material. Do not get this material in your eyes, on your skin, or on your clothing. Wash thoroughly after handling. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or promptly disposed of.

STORAGE REQUIREMENTS Do not store this material in open or unlabeled containers.

To protect purity, store under dry nitrogen gas.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION

Wear chemical goggles. A full-face shield is recommended when handling this material at an elevated temperature.

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	White solid	ODOR	Mild odor
ODOR THRESHOLD	No data available	рН	5.5 - 7.5 (1% solution)
VAPOR DENSITY	No data available	VAPOR PRESSURE	No data available
EVAPORATION RATE	No data available	RELATIVE DENSITY	1.04g/mL @ 60°C
MELTING POINT (°C)	43°C	WATER SOLUBILITY	Soluble
INITIAL BOILING POINT (°C)	No data available	BOILING RANGE (°C)	No data available
PARTITION COEFFICIENT (N- OCTANOL/WATER)	No data available	VISCOSITY	No data available
DECOMPOSITION TEMPERATURE	No data available	FLAMMABILITY CLASSIFICATION	CLASS IIIB
FLASH POINT (°C)	>93°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 Liquid is mildly irritating to eyes. Vapors may also produce eye irritation.

SKIN EFFECTS Prolonged and/or repeated skin contact may result in mild irritation or redness.

ACUTE ORAL

(INGESTION)

EFFECTS

Not a likely route of entry.

ACUTE INHALATION

EFFECTS

This product may cause slight irritation to the respiratory system.

TARGET ORGANS No known effects.

CHRONIC EFFECTS

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

Rat 1260 mg/kg LD50 ORAL

No information available.

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.

SECTION 12: ECOLOGICAL INFORMATION

UN GHS AQUATIC TOXICITY CLASSIFICATION INFORMATION

AQUATIC TOXICITY CLASSIFICATION

Not classified as hazardous to aquatic environment

Not applicable **SIGNAL WORD**

HAZARD

Not applicable **PICTOGRAM**

HAZARD STATEMENT | Not applicable

Not applicable **PREVENTION**

RESPONSE Not applicable

Not applicable **DISPOSAL**

ADDITIONAL ENVIRONMENTAL INFORMATION

ECOTOX.
INFORMATION

None determined

ENVIRONMENTAL

FATE

No data available for this product.

BIOLOGICAL OXYGEN DEMAND

OXYGEN DEMAN (BOD5), g/g

No data available

CHEMICAL OXYGEN DEMAND (COD), g/g

No data available

PERSISTENCE & DEGRADABILITY

No information available.

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 CONSIDERATIONS

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

environmental regulations.

DISPOSAL of EMPTY CONTAINERS

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

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

Not applicable

GUIDEBOOK (ERG) 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

This material is not subject to a Significant New Use Rule under the US Toxic

USE RULE (SNUR) 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. 7-97
EINECS	Europe	Yes	Registry No. 500-212-8 (NLP)
ELINCS	Europe	No	
IECSC	China	Yes	
PICCS	Philippines	Yes	
ECL	Korea	Yes	Registry No. KE-13392
AICS	Australia	Yes	

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

EHS COMPONENTS	CASRN	PERCENT	TPQ POUNDS and RQ
No limits established for this product.			
313 COMPONENTS	CASRN	PERCENT	REPORTING LIMIT

No limits established for this product.

CERCLA/SARA COMPONENTS	CASRN	PERCENT	REPORTING LIMIT
Ethylene oxide	75-21-8	0 - 20 ppm	10 lb final RQ; 4.54 kg final RQ
1,4-Diethylene oxide	123-91-1	0 - 10 ppm	100 lb final RQ; 45.4 kg final RQ

ACUTE No

CHRONIC No

EPCRA SECTION
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:

COMPONENT NAME	CASRN
No regulated components	

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

COMPONENT NAME	CASRN
No regulated components	

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

COMPONENT NAME	CASRN
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:

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
		California	Toxicity List
Ethylene oxide	75-21-8	California	PROP 65 Female
		California	Reproductive List
Ethylene oxide	75-21-8	California	PROP 65 Male
	73-21-6	California	Reproductive List
Ethylene oxide	75-21-8	California	PROP 65 No Significant
		California	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.

SDS GENERATED BY HAZEMS

SDS VERSION DATE 12/14/2015 6:32:07 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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High Point, NC 27261 Telephone: 1-800-727-2214

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	0

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

COMPONENT	CASRN	PERCENT	MINIMUM
			CONCENTRATION

No regulatory limits established for this product.

END OF DOCUMENT