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 AKYPO RLM 45 CA

PRODUCT CASRN 220622-96-8

PRODUCT DESCRIPTION FATTY ACID ESTER, ETHOXYLATED

SDS DOCUMENT No. K00825

RECOMMENDED USESThis product is intended for use as a surface-active agent in industrial

and commercial applications.

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 Serious Eye Damage/Eye Irritation Category 1

CLASSIFICATION Skin Corrosion/Irritation Category 2

SIGNAL WORD Danger

HAZARD Causes skin irritation.
STATEMENTS Causes serious eye damage.

HAZARD PICTOGRAMS



RECOMMENDED SAFETY PRECAUTIONS

INJURY PREVENTION

Wash thoroughly after handling.

Wear chemical-resistant gloves and clothing, eye protection and face protection.

IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

EMERGENCY RESPONSE

present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/attention. Immediately call a POISON CENTER or doctor.

Take off contaminated clothing and wash before reuse.

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

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

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 CAS Number Concentration (%) **Common Name**

Poly(oxy-1,2-ethanediyl), .alpha (carboxymethyl)omegahydroxy-, C12-14-alkyl ethers	POE alkyl ethers carboxylic acid	220622-96-8	90
Water	Water	7732-18-5	8
Poly(oxy-1,2-ethanediyl), .alpha dodecylomegahydroxy-	POE lauryl ether	9002-92-0	2

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

Remove contact lens immediately, if present and easy to remove. Immediately flush **EYES** eyes with plenty of water for at least 15 minutes. If necessary, 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 PRODUCTS of COMBUSTION

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

PROPERTIES THAT COULD INCREASE **FIRE or 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.

Product: AKYPO RLM 45 CA

SDS ID: K00825 Effective Date: 06-08-2015 Created Date: 10-15-1999

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.

Storage area should be protected by appropriately designed containment to prevent

release to groundwater or sewers.

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 and face shield.

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, pale yellow liquid ODOR | Characteristic odor

ODOR THRESHOLD No data available pH 2.5 - 3.5 (1% solution)

VAPOR DENSITY No data available VAPOR PRESSURE No data available

EVAPORATION RATE No data available RELATIVE DENSITY 1.01g/mL @ 20°C

MELTING POINT (°C) 0°C - 5°C WATER SOLUBILITY Soluble

INITIAL BOILING BOILING RANGE

POINT (°C)

No data available

(°C)

No data available

PARTITION
COEFFICIENT (NOCTANOL/WATER)

556 mPa/s @ 10°C
247 mPa/s @ 20°C
44 mPa/s @ 36°C

DECOMPOSITION
TEMPERATURE

No data available
CLASSIFICATION

Not evaluated

FLASH POINT (°C)

Not applicable

AUTO-IGNITION
TEMPERATURE

No data available

UPPER EXPLOSIVE LIMIT

No data available

LOWER
EXPLOSIVE LIMIT

No data available

OTHER DATA Density: 1.003g/mL @ °C

SECTION 10: STABILITY and REACTIVITY

CHEMICAL STABILITY Stable under normal conditions.

CONDITIONS to AVOID None known

INCOMPATIBLE
MATERIALS
(Reactivity)

None known.

INCOMPATIBLE MATERIALS (Storage

No information available.

HAZARDOUS DECOMPOSITION PRODUCTS

& Transport)

None known.

HAZARDOUS POLYMERIZATION

Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE EFFECTS

EYE EFFECTS This product is severely irritating to the eyes.

SKIN EFFECTS This product is irritating to the skin.

ACUTE ORAL

EFFECTS

(INGESTION)

Not a likely route of entry.

ACUTE INHALATION

Low vapor pressure makes inhalation unlikely at standard temperatures and

EFFECTS pressures.

CHRONIC EFFECTS

TARGET ORGANS

MUTAGENCITY Ames Test Negative

TERATOLOGY No data available for this product.

No known effects.

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

LD50 ORAL LD50 Oral Rat > 2000 mg/kg

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 SENSITIZER: non-sensitizer (OECD 406)

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

PREVENTION Not applicable

Not applicable **RESPONSE**

Not applicable **DISPOSAL**

ADDITIONAL ENVIRONMENTAL INFORMATION

96 hr LC50 Rainbow Trout: 7.5 mg/L **AQUATIC TOXICITY**

ECOTOX. None determined **INFORMATION**

ENVIRONMENTAL This product is Readily Biodegradable. **FATE**

BIOLOGICAL OXYGEN DEMAND No data available (BOD5), g/g

CHEMICAL OXYGEN No data available DEMAND (COD), g/g

PERSISTENCE & OECD301D: 89 % (28 days) **DEGRADABILITY**

BIOACCUMLATION No information available

SECTION 13: DISPOSAL CONSIDERATIONS

Wastes must be tested using methods described in 40 CFR Part 261 to determine if it **WASTE DESCRIPTION** meets applicable definitions of hazardous wastes.

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

environmental regulations.

DISPOSAL of EMPTY Dispose of waste material according to Local, State, Federal, and Provincial **CONTAINERS Environmental Regulations.**

RCRA COMPONENT **CASRN DATA**

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 QUANTITY (RQ)	No reportable quantity for this product		
EMERGENCY RESPONSE GUIDEBOOK (ERG) REFERENCE	Not applicable		
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	No	
NDSL	Canada	Yes	
ENCS	Japan	Yes	Registry No. 2-3573
EINECS	Europe	Yes	Registry No. 608-079-9; 616-082-1

ELINCS	Europe	No	
IECSC	China	Yes	
PICCS	Philippines	Yes	
ECL	Korea	Yes	Registry No. 2004-3-2756
AICS	Australia	No	

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	
No limits established for this				

No limits established for this product.

EPCRA SECTION
311/312
CLASSIFICATION

ACUTE	Yes
CHRONIC	No
FIRE	No
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 ider	ntified under the Clean Air Act H	ON-Rule Hazardous Air Pollutants		
(HAP) COMPONEN	T NAME	CASRN		
No regulated components				
The following components are iden	ntified under the Clean Water Ac	+•		
The following components are identified under the Clean Water Act:				
COMPONENT NAME	CASRN	LIST NAME		
No limits established for this product.				
STATE DIGUT TO UNION INFORMA	TION.			
STATE RIGHT-TO-KNOW INFORMATION:				

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.

STATE

List Name

CASRN

SECTION 16: OTHER INFORMATION

COMPONENT NAME

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 6/8/2015 2:23:41 PM

Patrick B. Simcox

SDS APPROVED BY Manager – Health, Safety, & Environmental

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MANUFACTURER(S) KAO C

KAO CHEMICALS GmbH Kupferstrasse 1, D-46446 Emmerich 1, GERMANY Phone: 011-49-2822-7110

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD RATINGS

HEALTH	3
FLAMMABILITY	1
REACTIVITY	0

Hazardous Material Identification System (HMIS) Hazard Ratings

HEALTH	3
FLAMMABILITY	1
REACTIVITY	0
PERSONAL	ח
PROTECTION	0

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

COMPONENT	CASRN	PERCENT	MINIMUM CONCENTRATION
Ethoxylated lauryl alcohol	9002-92-0	1 - 3	1 %

END OF DOCUMENT