## **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 100
PRODUCT CASRN 220622-96-8
PRODUCT DESCRIPTION Anionic Surfactant

SDS DOCUMENT No. K00840

**RECOMMENDED USES**This 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.

Immediately call a POISON CENTER or doctor.

If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

## **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 (carboxymethyl)omegahydroxy-, C12-14-alkyl ethers	POE alkyl ether carboxylic acid	220622-96-8	80 - 95

Effective Date: 04-22-2015

Created Date: 10-15-1999

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.

Immediately take off all contaminated clothing. For skin contact, wash immediately

with soap and water. If necessary, seek medical attention. Use emergency shower or other clean water source to flush affected area with copius quantities of water. If

irritation persists, get medical attention.

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

Move person to non-contaminated air. If not breathing, give artificial respiration, **INHALATION** 

preferably mouth-to-mouth. If breathing is difficult, give oxygen.

SYMPTOMS of Symptoms may include redness, edema, drying, defatting and cracking of the skin.

**EXPOSURE** Symptoms include itching, burning, redness and tearing.

**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** 

**EXTINGUISHING MEDIA** 

HAZARD

SKIN

Powder, alcohol-resistant foam, CO2 & sand

**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**

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

REQUIRED
EQUIPMENT
Shovel the material into waste container.

ADDITIONAL No other spill procedures necessary.

## RESPONSE TO LARGE SPILLS OF PRODUCT

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.

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

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

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

Wear chemical goggles. **PROTECTION** 

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** 

**CASRN PERCENT LIMITS AGENCY CHEMICAL** 

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	рН	2.0 - 4.0 (1% solution)
VAPOR DENSITY	No data available	VAPOR PRESSURE	No data available
EVAPORATION RATE	No data available	RELATIVE DENSITY	1.06g/mL @ 20°C
MELTING POINT (°C)	0°C - 5°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	1533 mPa-s @ 10°C 428 mPa-s @ 20°C 65 mPa-s @ 36°C
DECOMPOSITION TEMPERATURE	No data available	FLAMMABILITY CLASSIFICATION	CLASS IIIB

FLASH POINT (°C) >100°C AUTO-IGNITION Cleveland Open Cup TEMPERATURE No data available

UPPER EXPLOSIVE 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**Contact can cause moderate to severe irritation and possible injury to the eyes.

Vapors may also produce eye irritation.

**SKIN EFFECTS** This product is irritating to the skin.

**ACUTE ORAL** 

EFFECTS (INGESTION)

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** 

Ames Test TA98, TA100, TA1535, TA1537, WP2uvrA: Negative **MUTAGENCITY** 

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

REPRODUCTIVE and DEVELOPMENTAL **TOXICITY** 

No information available.

#### **CARINOGENICITY**

**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.

## **SECTION 12: ECOLOGICAL INFORMATION**

## **UN GHS AQUATIC TOXICITY CLASSIFICATION INFORMATION**

**AQUATIC TOXICITY** CLASSIFICATION

Acute 3

**SIGNAL WORD** 

Not applicable

**HAZARD** 

**PICTOGRAM** 

Not applicable

**HAZARD STATEMENT** | Harmful to aquatic life.

**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

**AQUATIC TOXICITY** 96 hr LC50 Rainbow Trout : 13 mg/L

ECOTOX.

None determined

INFORMATION

ENVIRONMENTAL This product is Readily Biodegradable.

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

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

PERSISTENCE & DEGRADABILITY Modified MITI test I (OECD301C) :% biodegradation by BOD = 83 - 87 % (28 days)

**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 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 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	No	
ELINCS	Europe	No	
IECSC	China	Yes	Registry No. 33818
PICCS	Philippines	Yes	
ECL	Korea	No	
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 COMPONE	NTS	CASRN	PERCENT	REPORTING LIMIT
No limits established for product.	this			
CERCLA/SARA COM		CASRN	PERCENT	REPORTING LIMIT
No limits established for product.	this			
	ACUTE	Yes		
EPCRA SECTION	CHRONIC	No		
311/312 CLASSIFICATION	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 compone	nts are identifi		n Air Act (VOCs in	SOCMI chemicals): CASRN
No regulated componen	its			
The following components are identified under the Clean Air Act as Hazardous Air Pollutants (HAP)  COMPONENT NAME  CASRN				
No regulated components				
(HAP)	nts are identifi		nn Air Act HON-Ru	le Hazardous Air Pollutants 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 INFORMA	TION:			
COMPONENT NAME	CACDN	CTATE	List Name	

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** 4/22/2015 1:42:31 PM

Patrick B. Simcox

SDS APPROVED BY Manager – Health, Safety, & Environmental

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**NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD RATINGS** 

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0

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

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0
PERSONAL	D
PROTECTION	U

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

COMPONENT	CACDAL	DEDCENT	MINIMUM
COMPONENT	CASRN	PERCENT	CONCENTRATION

**END OF DOCUMENT**