



## 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>AKYPO RLM 100 150kg PP DM</b>
<b>PRODUCT CASRN</b>	<b>220622-96-8</b>
<b>SDS DOCUMENT No.</b>	K00840
<b>RECOMMENDED USES</b>	Product is a surface-active agent intended for use as a formulary ingredient in personal care products.

#### **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>	Serious Eye Damage/Eye Irritation Category 1 Skin Corrosion/Irritation Category 2
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<b>SIGNAL WORD</b>	Danger
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<b>HAZARD STATEMENTS</b>	Causes skin irritation Causes serious eye damage
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**HAZARD PICTOGRAMS**



## RECOMMENDED SAFETY PRECAUTIONS

<b>INJURY PREVENTION</b>	Wash [ ] thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.
<b>EMERGENCY RESPONSE</b>	IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if 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.
<b>PRODUCT STORAGE</b>	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.
<b>PRODUCT DISPOSAL</b>	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.-(carboxymethyl)-.omega.-hydroxy-, C12-14-alkyl ethers	POE alkyl ether carboxylic acid	220622-96-8	80 - 95

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>	Remove contact lens immediately, if present and easy to remove. Immediately flush eyes with plenty of water for at least 15 minutes. If necessary, seek medical attention.
<b>SKIN</b>	Immediately take off all contaminated clothing. Wash affected area with mild soap and water. If irritation persists or other symptoms develop, seek medical attention. If medical attention is not immediately available, contact POISON CONTROL CENTER (1-800-222-1222).
<b>INGESTION</b>	If the material is swallowed, get immediate medical attention or advice. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth to a victim who is unconscious or is having convulsions.
<b>INHALATION</b>	Move person to non-contaminated air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. If tightness or congestion develops, get medical attention.
<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. Contain the discharged material.
<b>SPILL CLEANUP PROCEDURES</b>	Absorb spill with inert material. Shovel material into appropriate container for disposal.
<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>	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.
<b>SPILL CLEANUP PROCEDURES</b>	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.
<b>REQUIRED EQUIPMENT</b>	No additional information on equipment.
<b>ADDITIONAL INFORMATION</b>	Surfaces may become slippery after spillage. Have emergency equipment readily available. Remove soiled clothing and launder before reuse.

## SECTION 7: HANDLING AND STORAGE

<b>HANDLING REQUIREMENTS</b>	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.
<b>STORAGE REQUIREMENTS</b>	Do not store this material in open or unlabeled containers. To protect purity, store under dry nitrogen gas.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Product: AKYPO RLM 100 150kg PP DM

SDS

SDS ID: K00840  
Effective Date: 10-25-2017  
Created Date: 10-15-1999

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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>	Clear, pale yellow liquid	<b>ODOR</b>	Characteristic odor
<b>ODOR THRESHOLD</b>	No data available	<b>pH</b>	2.0 - 4.0 (1% solution)
<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>	1.056g/mL @ 20°C
<b>MELTING POINT (°C)</b>	0°C - 5°C	<b>WATER SOLUBILITY</b>	Soluble
<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>	1533 mPa-s @ 10°C 428 mPa-s @ 20°C 65 mPa-s @ 36°C
<b>DECOMPOSITION TEMPERATURE</b>	No data available	<b>FLAMMABILITY CLASSIFICATION</b>	CLASS IIIB

<b>FLASH POINT (°C)</b>	>100°C Cleveland Open 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
<b>OTHER DATA</b>	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

<b>MUTAGENICITY</b>	Ames Test TA98, TA100, TA1535, TA1537, WP2uvrA: Negative
<b>TERATOLOGY</b>	No data available for this product.
<b>REPRODUCTIVE and DEVELOPMENTAL TOXICITY</b>	No information available.

#### **CARCINOGENICITY**

<b>CHEMICAL NAME</b>	<b>DATA</b>	<b>AGENCY</b>	<b>LIST</b>
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
<b>LD50 DERMAL</b>	No information available
<b>LC50 INHALATION</b>	No information available
<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.

## **SECTION 12: ECOLOGICAL INFORMATION**

<b><u>UN GHS AQUATIC TOXICITY CLASSIFICATION INFORMATION</u></b>		
<b>AQUATIC TOXICITY CLASSIFICATION</b>	Acute 3	
<b>SIGNAL WORD</b>	Not applicable	
<b>HAZARD PICTOGRAM</b>	Not applicable	
<b>HAZARD STATEMENT</b>	Harmful to aquatic life	

<b>PREVENTION</b>	Avoid release to the environment.	
<b>RESPONSE</b>	Not applicable	
<b>DISPOSAL</b>	Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.	
<b>ADDITIONAL ENVIRONMENTAL INFORMATION</b>		
<b>AQUATIC TOXICITY</b>		
96 hr LC50 Rainbow Trout : 13 mg/L		
<b>ECOTOX. INFORMATION</b>	None determined	
<b>ENVIRONMENTAL FATE</b>	This product is Readily 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>	Modified MITI test I (OECD301C) :% biodegradation by BOD = 83 - 87 % (28 days)	
<b>BIOACCUMULATION</b>	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
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	No	
ELINCS	Europe	No	
IECSC	China	Yes	Registry No. 33818

<b>PICCS</b>	Philippines	Yes
<b>ECL</b>	Korea	No
<b>AICS</b>	Australia	No

**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>
The product contains no regulated components No limits established for this product.			

<b>313 COMPONENTS</b>	<b>CASRN</b>	<b>PERCENT</b>	<b>REPORTING LIMIT</b>
The product contains no regulated components No limits established for this product.			

<b>CERCLA/SARA COMPONENTS</b>	<b>CASRN</b>	<b>PERCENT</b>	<b>REPORTING LIMIT</b>
The product contains no regulated components No limits established for this product.			

<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 SOCM chemicals:**

<b>COMPONENT NAME</b>	<b>CASRN</b>
The product contains no regulated components	

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

<b>COMPONENT NAME</b>	<b>CASRN</b>
The product contains no regulated components	

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

COMPONENT NAME	CASRN
The product contains no regulated components	

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

COMPONENT NAME	CASRN
The product contains 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
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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.

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SDS APPROVED BY

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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 PROTECTION	D

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

COMPONENT	CASRN	PERCENT	MINIMUM CONCENTRATION
The product contains no regulated components			

**END OF DOCUMENT**