#### **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 AKYPO RLM 45 n

PRODUCT CASRN 33939-64-9

**PRODUCT DESCRIPTION** AQUEOUS SURFACE-ACTIVE AGENT SOLUTION

SDS DOCUMENT No. K00634

**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**

<b>Chemical Name</b>	Common Name	CAS Number	Concentration (%)
Poly(oxy-1,2-ethanediyl), .alpha (carboxymethyl)omega (dodecyloxy)-, sodium salt (1:1)	Alkyl ether carboxylic acid, sodium salt	33939-64-9	80 - 85
Water	Water	7732-18-5	15 - 20

Product: AKYPO RLM 45 n

SDS ID: K00634

Effective Date: 06-02-2015 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.

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.

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

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

**PROCEDURES** disposal.

REQUIRED 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.

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

Thoroughly wash the area with water after a spin of leak clean-up. Dispose of s

absorbent in an approved industrial waste landfill.

REQUIRED 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**

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 exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE 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	Pale yellow paste	ODOR	Characteristic odor
ODOR THRESHOLD	No data available	рН	4.0 - 5.0 (10% solution @ 20°C)
VAPOR DENSITY	No data available	VAPOR PRESSURE	No data available
EVAPORATION RATE	No data available	RELATIVE DENSITY	1.02g/mL @ 25°C
MELTING POINT (°C)	25°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	10,000cP - 15,000cP @ 25°C
DECOMPOSITION TEMPERATURE	No data available	FLAMMABILITY CLASSIFICATION	CLASS IIIB

FLASH POINT (°C)

> 100°C

Cleveland Open Cup

AUTO-IGNITION TEMPERATURE

**EXPLOSIVE LIMIT** 

No data available

**UPPER EXPLOSIVE** 

LIMIT

No data available

LOWER

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** Risk of serious damage to eyes.

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

**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** 

No data available for this product. TERATOLOGY

**REPRODUCTIVE** and **DEVELOPMENTAL** TOXICITY

No information available.

#### **CARCINOGENICITY**

	I .	1	
CHEMICAI NAME	DATA	AGENCY	TZLL

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** 

Not classified as hazardous to aquatic environment

Not applicable SIGNAL WORD

**HAZARD** 

Not applicable **PICTOGRAM** 

**HAZARD STATEMENT** | Not applicable

**PREVENTION** 

Not applicable

**RESPONSE** 

Not applicable

**DISPOSAL** Not applicable

**ADDITIONAL ENVIRONMENTAL INFORMATION** 

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

ECOTOX.
INFORMATION

None determined

ENVIRONMENTAL FATE This product is Readily Biodegradable.

BIOLOGICAL
OXYGEN DEMAND
(BOD5), g/g

No data available

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

PERSISTENCE & 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 Clean up and dispose of waste in accordance with all federal, state, and local environmental regulations.

DISPOSAL of EMPTY 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	Yes
NDSL	Canada	No
ENCS	Japan	Yes
EINECS	Europe	Yes
ELINCS	Europe	No
IECSC	China	Yes
PICCS	Philippines	Yes
ECL	Korea	Yes
AICS	Australia	Yes

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

40 CH (1 AKT 555, ATT		1	1		1
No limits established for this product.		CASRN	PERCE	:NI	TPQ POUNDS and RQ
	p		i		
313 COMPON		CASRN	PERCE	NT	REPORTING LIMIT
No limits established for product.	or this				
CERCLA/SARA CON	IPONENTS	CASRN	PERCE	NT	REPORTING LIMIT
1,4-Diethylene oxide		123-91-1	0 - 30 ppm	1	100 lb final RQ; 45.4 kg final RQ
	ACUTE CHRONIC	Yes			'
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 N	NAME			CASRN
No regulated compone	nts				
The following components are identified under the Clean Air Act (VOCs in SOCMI chemicals):  COMPONENT NAME  CASRN  No regulated components					
			ļ		
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 N	NAME			CASRN
No regulated compone	ents				

## 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
1.4-Dioxane	123-91-1	California	PROP 65 No Significant
1,4-Dioxane	123-91-1	California	Risk Levels 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 3:00:57 PM

Patrick B. Simcox

SDS APPROVED BY Manager – Health, Safety, & Environmental

e-mail: psimcox@ksallc.com

MANUFACTURER(S) KAO CORPORATION, S.A.

Puig dels Tudons, 10 BARBERA DEL VALLES Barcelona, Spain 08210

## **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	2
PROTECTION	D

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**