

# **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 RO 90 VG
PRODUCT CASRN	57635-48-0
PRODUCT DESCRIPTION	FATTY ACID, ETHOXYLATED
SDS DOCUMENT No.	K02292
RECOMMENDED USES	This product is intended for use as a lubricant in industrial manufacturing processes.

#### **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	Serious Eye Damage/Eye Irritation Category 1 Skin Sensitisation Category 1 Skin Corrosion/Irritation Category 2
SIGNAL WORD	Danger
HAZARD STATEMENTS	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage.



#### **RECOMMENDED SAFETY PRECAUTIONS**

HAZARD

INJURY PREVENTION	Avoid breathing dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wear chemical-resistant gloves and clothing, eye protection and face protection.
EMERGENCY RESPONSE	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 or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

PRODUCT DISPOSAL	Dispose of contents and container in accordance with local, national, and
	international regulations for hazardous wastes.

#### HAZARDS NOT OTHERWISE CLASSIFIED

PYROPHORIC GASES	Not applicable
SIMPLE	Not applicable

**COMBUSTIBLE DUST** Not applicable

**ASPHYXIANTS** 

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 (%)
Product: AKYPO RO 90 VG SDS ID: K02292 Effective Date: 05-05-2015			Page 2 of 12

Poly(oxy-1,2-ethanediyl), .alpha (carboxymethyl)omega[(92)-9- octadecen-1-yloxy]-	Alkyl ether carboxylic acid	57635-48-0	90
Water	Water	7732-18-5	10

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**

EYES	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.
SKIN	For skin contact, wash immediately with soap and water. If necessary, seek medical attention.
INGESTION	If the material is swallowed, get immediate medical attention or advice.
INHALATION	If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen.
SYMPTOMS of EXPOSURE	None known.
NOTES to PHYSICIAN	Provide general supportive measures and treat symptomatically.

## **SECTION 5: FIRE-FIGHTING MEASURES**

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

СН	EMICAL	CASRN	PERCENT	LIMITS	AGENCY
OSHA:	No exposure	limits established for t	his product		
ACGIH:	No exposure	limits established for t	his product		

# **SECTION 9: PHYSICAL and CHEMICAL PROPERTIES**

APPEARANCE @ 20°C	Yellow to brown liquid	ODOR	Characteristic odor
ODOR THRESHOLD	No data available	рН	1.5 - 3.0 (10% solution @ 20°C)
VAPOR DENSITY	No data available	VAPOR PRESSURE	No data available
EVAPORATION RATE	No data available	RELATIVE DENSITY	1.03g/mL @ 20°C
MELTING POINT (°C)	0°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	120 cP @ 45°C

DECOMPOSITION TEMPERATURE	No data available	FLAMMABILITY CLASSIFICATION	CLASS IIIB
FLASH POINT (°C)	>100°C Cleveland Open 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	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 EFFECTS	Low vapor pressure makes inhalation unlikely at standard temperatures and pressures.
TARGET ORGANS	No known effects.

#### **CHRONIC EFFECTS**

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

REPRODUCTIVE andDEVELOPMENTALNo information available.TOXICITY

#### **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 th	e International Agency for Re	search on Can	cer (IARC).
None of the components of this product a	re listed on the NTP Known or	Suspected Ca	rcinogens 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
SIGNAL WORD	Not applicable
HAZARD PICTOGRAM	Not applicable
HAZARD STATEMENT	Not applicable
PREVENTION	Not applicable

**RESPONSE** Not applicable

DISPOSAL Not applicable

#### ADDITIONAL ENVIRONMENTAL INFORMATION

AQUATIC TOXICITY	96 hr LC50 Rainbow Trout : 8.2 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 & 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	ΙΑΤΑ	IMDG
UN NUMBER	Not applicable	Not applicable	Not applicable

Product: AKYPO RO 90 VG SDS ID: K02292 Effective Date: 05-05-2015 Created Date: 01-11-2000

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	Yes	
NDSL	Canada	No	
ENCS	Japan	Yes	
EINECS	Europe	Yes	
ELINCS	Europe	No	
IECSC	China	Yes	
PICCS	Philippines	Yes	
ECL	Korea	Yes	Registry No.
AICS	Australia	Yes	

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

EHS COMPON	NENTS	CASRN	PERCENT	TPQ POUNDS and RQ
No limits established f	or this product.			
313 COMPON	NENTS	CASRN	PERCENT	<b>REPORTING LIMIT</b>
No limits established f	or this	·		
product.				
CERCLA/SARA COI	MPONENTS	CASRN	PERCENT	REPORTING LIMIT
No limits established f	or this			
product.				
	ACUTE	Yes		
	CHRONIC	No		
EPCRA SECTION		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 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:

COMPONENT NAME	CASRN	LIST NAME
No limits established for this produce	ct.	

#### STATE RIGHT-TO-KNOW INFORMATION:

COMPONENT NAME	CASRN	STATE	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	PSIMCOX
SDS VERSION DATE	5/5/2015 4:12:11 PM
SDS APPROVED BY	Patrick B. Simcox Manager – Health, Safety, & Environmental e-mail: psimcox@ksallc.com

#### MANUFACTURER(S) 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	п
PROTECTION	U

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