#### **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 EMANON CO-40
PRODUCT CASRN 61791-12-6

PRODUCT DESCRIPTION ETHOXYLATED FATTY ACID

SDS DOCUMENT No. S03540

**RECOMMENDED USES**Product is intended for use as a raw material in chemical

manufacturing

**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 This product does not satisfy any of the criteria for a hazardous material per the guidelines established by the United Nations (Globally Harmonized System of Classification and Labelling of Chemicals) as specified in 29 CFR 1910.1200 Hazard

Communication (2012).

SIGNAL WORD Not Applicable

HAZARD STATEMENTS

Not Applicable

#### **RECOMMENDED SAFETY PRECAUTIONS**

## INJURY PREVENTION

Good industrial hygiene practices should be followed when handling this material. Avoid contact with eyes and skin. Do not breathe dusts/fumes/vapors of this material.

Wash thoroughly after handling.

When necessary, use appropriate personal protective equipment to prevent injury.

# EMERGENCY RESPONSE

IF IN EYES: rinse cautiously with water for 15 minutes. Remove contact lens, if present and easy to do. Continue rinsing. Seek medical attention if necessary

IF ON SKIN: gently wash with plenty of soap and water.

Call a POISON CONTROL CENTER or doctor if symptoms develop or you feel unwell.

# 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 Not applicable ASPHYXIANTS

**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 (%)
Castor oil, ethoxylated	Castor oil, ethoxylated	61791-12-6	~ 100

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**

Immediately flush eyes with plenty of water for at least 15 minutes. If necessary, **EYES** 

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

**HAZARD** 

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** 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** Powder, alcohol-resistant foam, CO2 & sand **MEDIA** 

**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**

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** Dike the spilled material, where this is possible.

**SPILL CLEANUP** Collect the spilled material with an inert absorbent such as sand or vermiculite.

**PROCEDURES** Place in properly labeled closed container.

REQUIRED Shovel the material into waste container.

ADDITIONAL No other spill procedures necessary.

## **RESPONSE TO LARGE SPILLS OF PRODUCT**

**SPILL CONTAINMENT** Dike the spilled material, where this is possible.

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

Wear appropriate protective equipment and clothing during clean-up.

ADDITIONAL No other spill procedures necessary.

# **SECTION 7: HANDLING AND STORAGE**

As with all chemicals, good industrial hygiene practices should be followed when handling this material. Avoid contact with skin and eyes. Wash thoroughly after

handling.

Keep the container in a well-ventilated place.

STORAGE Keep the container tightly closed.

**REQUIREMENTS** 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 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	Clear, yellow liquid	ODOR	Characteristic odor
ODOR THRESHOLD	No data available	рН	5.0 - 7.0
VAPOR DENSITY	No data available	VAPOR PRESSURE	No data available
EVAPORATION RATE	No data available	RELATIVE DENSITY	1.07g/mL @ 25°C
MELTING POINT (°C)	No data available	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	No data available
DECOMPOSITION TEMPERATURE	No data available	FLAMMABILITY CLASSIFICATION	CLASS IIIB
FLASH POINT (°C)	>93°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**

Product: EMANON CO-40 SDS ID: S03540

Effective Date: 06-28-2016 Created Date: 10-15-1999 **CHEMICAL STABILITY** Stable under normal conditions.

**CONDITIONS to** 

**AVOID** 

None known

**INCOMPATIBLE** 

MATERIALS

None known.

(Reactivity)

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** No significant eye irritation can be expected from contact with this product.

**SKIN EFFECTS** Not expected to be a primary skin irritant.

**ACUTE ORAL** 

(INGESTION)

**EFFECTS** 

Acute ingestion may result in mild gastrointestinal distress.

**ACUTE INHALATION** 

**EFFECTS** 

Low vapor pressure makes inhalation unlikely at standard temperatures and

pressures.

**TARGET ORGANS** No known effects.

**CHRONIC EFFECTS** 

MUTAGENCITY No information available

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

REPRODUCTIVE and DEVELOPMENTAL

DEVELOPIVIENTA

**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 No information available

LD50 DERMAL No information available

LC50 INHALATION No information available

No information available for this product.

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 TOX	ICITY CLASSIFICATION INFORMATIO	<u>N</u>	
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	
	No information available
ECOTOX. INFORMATION	None determined
ENVIRONMENTAL FATE	No data available for this product.
BIOLOGICAL OXYGEN DEMAND (BOD5), g/g	0.29 g/g
CHEMICAL OXYGEN DEMAND (COD), g/g	0.8 g/g
PERSISTENCE & DEGRADABILITY	No information available.
BIOACCUMLATION	No information available

# **SECTION 13: DISPOSAL CONSIDERATIONS**

WASTE DESCRIPTIONWastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes.GENERAL DISPOSAL CONSIDERATIONSClean up and dispose of waste in accordance with all federal, state, and local environmental regulations.DISPOSAL of EMPTY CONTAINERSDispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

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)

Not applicable

REFERENCE

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	Registry No. 8-290
EINECS	Europe	Yes	Registry No. 500-151-7 (polymer)
ELINCS	Europe	No	
IECSC	China	Yes	
PICCS	Philippines	Yes	
ECL	Korea	Yes	Registry No. KE-13404
AICS	Australia	Yes	

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

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  Ethylene oxide   75-21-8   0 - 20 ppm   RQ    1,4-Diethylene oxide   123-91-1   0 - 20 ppm   RQ    ACUTE   No   CHRONIC   No    EPCRA SECTION   PIRE   No    CHRONIC   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)   CASRN    No regulated components  The following components are identified under the Clean Air Act Act HON-Rule Hazardous Air Pollutants (HAP)   CASRN    The following components are identified under the Clean Air Act HON-Rule Hazardous Air Pollutants (HAP)   CASRN			1	1		
No limits established for this product.	EHS COMPONENTS		CASRN	PERCE	NT	TPQ POUNDS and RQ
No limits established for this product.  CERCLA/SARA COMPONENTS	No littiits established to	or tills product.				
Ethylene oxide 75-21-8 0 - 20 ppm 10 lb final RQ; 4.54 kg fin RQ  1,4-Diethylene oxide 123-91-1 0 - 20 ppm 10 lb final RQ; 45.4 kg fin RQ  EPCRA SECTION 311/312 CLASSIFICATION FIRE NO REACTIVE NO REQUIATED REQUIATIONS  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 as Hazardous Air Pollutants (HAP) COMPONENT NAME CASRN	313 COMPON	IENTS	CASRN	PERCE	NT	REPORTING LIMIT
Ethylene oxide  75-21-8  0 - 20 ppm  10 lb final RQ; 4.54 kg fin RQ  1,4-Diethylene oxide  123-91-1  0 - 20 ppm  10 lb final RQ; 4.54 kg fin RQ  10 lb final R		or this				
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ACUTE   No CHRONIC   No STATE   NO CHRONIC   NO STATE   NO CHRONIC   NO STATE   NO CHRONIC   NO STATE   NO REACTIVE   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 as Hazardous Air Pollutants (HAP) COMPONENT NAME CASRN  The following components are identified under the Clean Air Act HON-Rule Hazardous Air Pollutants (HAP) The following components are identified under the Clean Air Act HON-Rule Hazardous Air Pollutants (HAP)	Ethylene oxide		75-21-8	0 - 20 ppm	l	10 lb final RQ; 4.54 kg final RQ
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EPCRA SECTION 311/312 CLASSIFICATION  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 as Hazardous Air Pollutants (HAP) COMPONENT NAME CASRN  The following components are identified under the Clean Air Act HON-Rule Hazardous Air Pollutants (HAP)  COMPONENT NAME CASRN			1			
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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)	CLASSIFICATION	PRESSURE	No			
The following components are identified under the Clean Air Act HON-Rule for SOCMI chemicals:  COMPONENT NAME  CASRN  No regulated 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  The following components are identified under the Clean Air Act HON-Rule Hazardous Air Pollutants (HAP)		REACTIVE	No			
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(HAP)	No regulated compone	ents				
· · · · · · · · · · · · · · · · · · ·		ents are identi	fied under the Cle	an Air Act HO	N-Rule H	lazardous Air Pollutants
COMPONENT NAME CASRN		COMPONENT I	NAME			CASRN

No regulated components

#### 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
Ethylene oxide	75-21-8	California	PROP 65 Developmental
Ethylene Oxide	73-21-6	Camornia	
Ethylene oxide	75-21-8	California	PROP 65 Female
Ethylene Oxide	73-21-6	Camornia	Reproductive List
Ethylene oxide	75-21-8	California	PROP 65 Male
Ethylene Oxide	73-21-6	Camornia	Reproductive List
Ethylene oxide	75-21-8	California	PROP 65 No Significant
Ethylene oxide	73-21-0	Camornia	Risk Levels List
1,4-Dioxane	123-91-1	California	PROP 65 No Significant
1,4-Dioxane	123-31-1 Callottila		Risk Levels List
Ethylene oxide	75-21-8	California	PROP 65 Cancer 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** 6/28/2016 9:47:47 AM

SDS APPROVED BY

Patrick B. Simcox

Manager – Health, Safety, & Environmental

e-mail: psimcox@ksallc.com

MANUFACTURER(S)

Kao Specialties Americas LLC 243 Woodbine Street

P. O. Box 2316 High Point, NC 27261

Telephone: 1-800-727-2214

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

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0

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

HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
PERSONAL	D
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**