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 EMAL 270D PRODUCT CASRN 68585-34-2

PRODUCT DESCRIPTION FATTY ALCOHOLS, ETHOXYLATED, SULFATE SALT

SDS DOCUMENT No. K92862

RECOMMENDED USESThis 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.

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 (%)
Poly(oxy-1,2-ethanediyl), .alpha sulfoomegahy droxy-, C10-16-alkyl ethers, sodium salts	POE (2) alkyl (C10-16) ethers, sodium sulfate salt	68585-34-2	65 - 75

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	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.

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.

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 PROTECTION

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 viscous liquid | ODOR | Slightly characteristic odor

ODOR THRESHOLD No data available **pH** 7.0 - 9.0 (1% solution @ 20°C)

VAPOR DENSITY No data available VAPOR PRESSURE No data available

EVAPORATION RATE No data available RELATIVE DENSITY 1.1g/mL @ 30°C

MELTING POINT (°C) 3°C - 8°C WATER SOLUBILITY Soluble

INITIAL BOILING

No data available

BOILING RANGE

No data available

PARTITION

COEFFICIENT (N- No data available VISCOSITY 20,000 mPa-s @ 20°C

(°C)

OCTANOL/WATER)

POINT (°C)

SDS ID: K92862 Effective Date: 12-14-2015 Created Date: 10-15-1999

Product: EMAL 270D

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DECOMPOSITION FLAMMABILITY No data available Not evaluated **TEMPERATURE** CLASSIFICATION

Not applicable **AUTO-IGNITION** FLASH POINT (°C) No data available **TEMPERATURE**

UPPER EXPLOSIVE

LOWER No data available No data available **EXPLOSIVE LIMIT** LIMIT

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

This product is severely irritating to the eyes. **EYE EFFECTS**

Prolonged and/or repeated skin contact may result in mild irritation or redness. **SKIN EFFECTS**

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

MUTAGENCITY Ames Test (Salmonella typhimurium): Negative

TERATOLOGY No data available for this product.

REPRODUCTIVE and DEVELOPMENTAL

No information available.

DEVELOPMENTAL TOXICITY

CARCINOGENICITY

CHEMICAL NAME DATA	AGENCY	LIST
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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

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.

Skin Corrosion/Irritation (ingredients): Sodium polyoxyethylene(2) alkyl(C10-16)

ethers sulfates: Category 2

OTHER

TOXICOLOGICAL INFORMATION

Eye Damage/Irritation (ingredients): Sodium polyoxyethylene(2) alkyl(C10-16) ethers

sulfates: Category 1

Skin Sensitizer: OECD 406 (Guinea pig): negative

SECTION 12: ECOLOGICAL INFORMATION

UN GHS AQUATIC TOXICITY CLASSIFICATION INFORMATION

AQUATIC TOXICITY Acute 2
CLASSIFICATION Chronic 3

SIGNAL WORD Not applicable

HAZARD
PICTOGRAM
Not applicable

HAZARD STATEMENT Toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

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 TOXICTY

(fish)

96 hr LC50 > 1 mg/L

ECOTOXICITY
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

CO2 evolution test (OECD301B): 81% (28days)(Data on similar product)

PERSISTENCE & DEGRADABILITY

Biodegradation test using activated sludge of a municipal sewage

treatment plant :

% degradation by BOD : 91.5% (Data on similar product) % degradation by DOC : 97.5% (Data on similar product)

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	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 QUANTITY (RQ) No reportable quantity

for this product

EMERGENCY RESPONSE GUIDEBOOK (ERG) REFERENCE

Not applicable

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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
TCSI	Taiwan	Not evaluated

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 COMPONENTS	CASRN	PERCENT	REPORTING LIMIT
No limits established for this product.	CASKIN	PERCEINI	REPORTING LIVIT
No littles established for this product.			
CERCLA/SARA COMPONENTS	CASRN	PERCENT	REPORTING LIMIT

No limits established for this product.

EPCRA SECTION
311/312
CLASSIFICATION

ACUTE	Yes
CHRONIC	No
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				
		l		
The following components are iden	tified under the Clean Ai	r Act as Hazardous Air F	Pollutants (HAP)	
COMPONEN'		1	CASRN	
No regulated components				
		I		
The following components are iden	tified under the Clean Ai	r Act HON-Rule Hazardo	ous Air Pollutants	
(HAP)		1		
COMPONEN	Γ NAME		CASRN	
No regulated components				
		I		
The following components are iden	tified under the Clean W	ater Act:		
COMPONENT NAME	CASRN		LIST NAME	
No limits established for this produc			LIGITIVALE	
No littles established for this product				
STATE RIGHT-TO-KNOW INFORMAT	IION:			
			l	
COMPONENT NAME	CASRN	STATE	List Name	
If the STATE RIGHT-TO-KNOW INFOR	RMATION table above is e	mpty than none of the c	components of this	
product are included on the state right-to-know regulatory lists for Florida, Massachusetts, Michigan,				
Pennsylvania, or New Jersey.				
CALIFORNIA SAFE WATER and TOXI	C ENFORCEMENT ACT of	1986 (Proposition 65)		

[†] CONCENTRATIONS EXPRESSED IN % UNLESS UNITS ARE SPECIFIED

LIST DATA

CONCENTRATION

SECTION 16: OTHER INFORMATION

COMPONENT NAME

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.

CASRN

SDS GENERATED BY

HAZEMS

SDS VERSION DATE 12/14/2015 6:21:41 PM

Patrick B. Simcox

SDS APPROVED BY 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	D
PROTECTION	0

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