



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	KALCOL 8670
PRODUCT CASRN	67762-27-0
PRODUCT DESCRIPTION	Aliphatic fatty alcohol
SDS DOCUMENT No.	274302
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	<p>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.</p> <p>Wash thoroughly after handling.</p> <p>When necessary, use appropriate personal protective equipment to prevent injury.</p>
EMERGENCY RESPONSE	<p>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</p> <p>IF ON SKIN: gently wash with plenty of soap and water.</p> <p>Call a POISON CONTROL CENTER or doctor if symptoms develop or you feel unwell.</p>
PRODUCT STORAGE	<p>The storage area must be protected by properly designed containment to prevent the release of product to groundwater or sewers.</p> <p>Keep container tightly closed when not in use.</p> <p>Store in a well ventilated area.</p>
PRODUCT DISPOSAL	<p>DISPOSE of product and containers in accordance with all applicable local, state, federal, and international regulations.</p>

HAZARDS NOT OTHERWISE CLASSIFIED

PYROPHORIC GASES | Not applicable

SIMPLE ASPHYXIANTS | Not applicable

COMBUSTIBLE DUST | Not applicable

Dust Classification	Minimum Ignition Energy	Pmax (bar-g)	Rmax (bar/s)	Kst (bar-m/s)	Explosion Severity
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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 (%)
1-Octadecanol	Stearyl alcohol	112-92-5	60 - 71
1-Hexadecanol	Cetyl alcohol	36653-82-4	25 - 31

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.

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 PROCEDURES	Collect the spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container.
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. Block any potential routes to water systems.
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. Do not allow the spilled product to enter public drainage system or open water courses.
REQUIRED EQUIPMENT	Shovel the material into waste container.
ADDITIONAL INFORMATION	No other spill procedures necessary.

SECTION 7: HANDLING AND STORAGE

HANDLING REQUIREMENTS	Avoid contact with skin and eyes. Wash hands after handling and before eating. As with all chemicals, good industrial hygiene practices should be followed when handling this material. Keep away from sources of ignition.
STORAGE REQUIREMENTS	Keep the container tightly closed and in a cool, well-ventilated place. Eliminate all sources of ignition. If product is stored in bulk, nitrogen padding is recommended.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS	Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
<u>PERSONAL PROTECTIVE EQUIPMENT</u>	
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.

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	White solid	ODOR	Slightly characteristic odor
ODOR THRESHOLD	No data available	pH	Not applicable
VAPOR DENSITY	No data available	VAPOR PRESSURE	No data available
EVAPORATION RATE	No data available	RELATIVE DENSITY	0.8 @ 80°C
MELTING POINT (°C)	52°C	WATER SOLUBILITY	Insoluble in water
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	CLASS IIIB
FLASH POINT (°C)	184°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	No significant eye irritation can be expected from contact with this product.
SKIN EFFECTS	No skin irritation can be expected from single short-term exposure to this product. Prolonged or repeated contact may produce some irritation.
ACUTE ORAL EFFECTS (INGESTION)	No significant adverse effects are expected upon ingestion of the product.
ACUTE INHALATION EFFECTS	Inhalation of vapors/fumes generated by heating this product may cause respiratory irritation with throat discomfort, coughing or difficulty breathing.
TARGET ORGANS	No known effects.

CHRONIC EFFECTS

TERATOLOGY	No data available for this product.
REPRODUCTIVE and DEVELOPMENTAL 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	LD50 Oral Rat : 10000 mg/kg	(source: IUCLID)
LD50 DERMAL	LD50 Dermal Rabbit > 8000 mg/kg	

LETHAL DOSE (LD50 & LC50) DATA for PRODUCT COMPONENTS

LD50 ORAL	LD50 Oral Rat : 2510 mg/kg LD50 Oral Rat : 5 g/kg	1-Octadecanol Cetyl alcohol
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MEDICAL CONDITIONS AGGRAVATED by EXPOSURE	No information available.
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ROUTES of ENTRY	Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.
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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

ECOTOX. INFORMATION | No data available for this product.

ENVIRONMENTAL FATE | No data available for this product.

BIOLOGICAL OXYGEN DEMAND (BOD5), g/g | No data available

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

PERSISTENCE & DEGRADABILITY | No information available.

BIOACCUMULATION | 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
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

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.			

CERCLA/SARA COMPONENTS	CASRN	PERCENT	REPORTING LIMIT
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EPCRA SECTION 311/312 CLASSIFICATION	ACUTE	No
	CHRONIC	No
	FIRE	No
	PRESSURE	No
	REACTIVE	No

OTHER FEDERAL REGULATIONS

The following components are identified under the Clean Air Act HON-Rule for SOCMIs chemicals:

COMPONENT NAME	CASRN
No regulated components	

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

COMPONENT NAME	CASRN
Hexadecyl alcohol	36653-82-4

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 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.

SDS GENERATED BY	HAZEMS
SDS VERSION DATE	12/14/2015 5:35:09 PM
SDS APPROVED BY	Patrick B. Simcox Manager – Health, Safety, & Environmental e-mail: psimcox@ksallc.com

MANUFACTURER(S)	PILIPINAS KAO, INC. Jasaan Misamis Oriental Ecozone 9003 Jasaan, Mis. Or. P.O. Box 15 Cagayan de Oro City PHILIPPINES Telephone: 011-63-8822-760-256
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NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD RATINGS

HEALTH	0
FLAMMABILITY	1
REACTIVITY	0

Hazardous Material Identification System (HMIS) Hazard Ratings

HEALTH	0
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
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No regulatory limits established for this product.

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