



# 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

<b>PRODUCT NAME</b>	<b>KALCOL 8098</b>
<b>PRODUCT CASRN</b>	<b>112-92-5</b>
<b>PRODUCT DESCRIPTION</b>	Aliphatic fatty alcohol
<b>SDS DOCUMENT No.</b>	101802
<b>RECOMMENDED USES</b>	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

<b>HAZARD CLASSIFICATION</b>	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).
<b>SIGNAL WORD</b>	Not Applicable
<b>HAZARD STATEMENTS</b>	Not Applicable

### RECOMMENDED SAFETY PRECAUTIONS

<b>INJURY PREVENTION</b>	<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>
<b>EMERGENCY RESPONSE</b>	<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>
<b>PRODUCT STORAGE</b>	<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>
<b>PRODUCT DISPOSAL</b>	<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 (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 (%)
1-Octadecanol	Stearyl alcohol	112-92-5	~ 100
1-Hexadecanol	Cetyl alcohol	36653-82-4	0 - 1
1-Tetradecanol	Myristyl alcohol	112-72-1	0 - 1

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

<b>EYES</b>	Immediately flush eyes with plenty of water for at least 15 minutes. If necessary, seek medical attention.
<b>SKIN</b>	For skin contact, wash immediately with soap and water. If necessary, seek medical attention.
<b>INGESTION</b>	If the material is swallowed, get immediate medical attention or advice.
<b>INHALATION</b>	If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen.
<b>SYMPTOMS of EXPOSURE</b>	None known.
<b>NOTES to PHYSICIAN</b>	Provide general supportive measures and treat symptomatically.

## SECTION 5: FIRE-FIGHTING MEASURES

<b>FLAMMABLE PROPERTIES</b>	Refer to SECTION 9: Physical and Chemical Properties
<b>HAZARDOUS PRODUCTS of COMBUSTION</b>	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
<b>PROPERTIES THAT COULD INCREASE FIRE or EXPLOSION HAZARD</b>	No known hazards.
<b>EXTINGUISHING MEDIA</b>	Powder, alcohol-resistant foam, CO2 & sand
<b>FIRE-FIGHTING INSTRUCTIONS</b>	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**

<b>SPILL CONTAINMENT</b>	Dike the spilled material, where this is possible.
<b>SPILL CLEANUP PROCEDURES</b>	Collect the spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container.
<b>REQUIRED EQUIPMENT</b>	Shovel the material into waste container.
<b>ADDITIONAL INFORMATION</b>	No other spill procedures necessary.

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

<b>SPILL CONTAINMENT</b>	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.
<b>SPILL CLEANUP PROCEDURES</b>	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.
<b>REQUIRED EQUIPMENT</b>	Shovel the material into waste container.
<b>ADDITIONAL INFORMATION</b>	No other spill procedures necessary.

---

---

### **SECTION 7: HANDLING AND STORAGE**

---

---

<b>HANDLING REQUIREMENTS</b>	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.
<b>STORAGE REQUIREMENTS</b>	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**

---

---

<b>ENGINEERING CONTROLS</b>	Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
-----------------------------	---

## PERSONAL PROTECTIVE EQUIPMENT

<b>EYE/FACE PROTECTION</b>	Wear chemical goggles and face shield.
<b>HAND PROTECTION</b>	Use impervious gloves.
<b>SKIN PROTECTION</b>	Normal work clothing (long sleeved shirts and long pants) is recommended.
<b>RESPIRATORY PROTECTION</b>	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
<b>OSHA:</b>	No exposure limits established for this product			
<b>ACGIH:</b>	No exposure limits established for this product			

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

<b>APPEARANCE @ 20°C</b>	White solid	<b>ODOR</b>	Slightly characteristic odor
<b>ODOR THRESHOLD</b>	No data available	<b>pH</b>	Not applicable
<b>VAPOR DENSITY</b>	No data available	<b>VAPOR PRESSURE</b>	No data available
<b>EVAPORATION RATE</b>	No data available	<b>RELATIVE DENSITY</b>	0.81 @ 60°C
<b>MELTING POINT (°C)</b>	58°C	<b>WATER SOLUBILITY</b>	Insoluble in water
<b>INITIAL BOILING POINT (°C)</b>	No data available	<b>BOILING RANGE (°C)</b>	No data available
<b>PARTITION COEFFICIENT (N-OCTANOL/WATER)</b>	No data available	<b>VISCOSITY</b>	20mPa-s @ 60°C
<b>DECOMPOSITION TEMPERATURE</b>	No data available	<b>FLAMMABILITY CLASSIFICATION</b>	CLASS IIIB
<b>FLASH POINT (°C)</b>	183°C Cleveland Open Cup	<b>AUTO-IGNITION TEMPERATURE</b>	No data available

UPPER EXPLOSIVE  
LIMIT | 2.6%

LOWER  
EXPLOSIVE LIMIT | 0.3%

## 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

**MUTAGENICITY** | Ames Test (TA98, TA100, TA1535, TA1537, TA1538 ): Negative

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

**REPRODUCTIVE and  
DEVELOPMENTAL  
TOXICITY**

No information available.

**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 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**

<b>LD50 ORAL</b>	LD50 Oral Rat > 2000 mg/kg	(male/female) (data on equivalent 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.

**OTHER  
TOXICOLOGICAL  
INFORMATION**

Skin Corrosion/Irritation: Rabbit, 100%, 4 hr. semi-occluded application (OECD404):  
Not Classified  
Serious Eye Damage/Irritation: Rabbit, 100%, OECD Guidelines No.405: Not  
Classified  
Skin Sensitization: Guinea Pig, Guinea Pig Maximization Test: Negative

**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 > 0.4 mg/L

**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** | CO2 evolution test (OECD301B) : 43 % (28 days) (Data on equivalent product)  
Closed bottle test : 69% (29 days) (Data on octadecan-1-ol)

**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.

<b>RCRA COMPONENT</b>	<b>CASRN</b>	<b>DATA</b>
No limits established for this product.		

## **SECTION 14: TRANSPORT INFORMATION**

	<b>US DOT</b>	<b>IATA</b>	<b>IMDG</b>
<b>UN NUMBER</b>	Not applicable	Not applicable	Not applicable



<b>UN PROPER SHIPPING NAME</b>	Non-hazardous material	Non-hazardous material	Non-hazardous material
<b>TRANSPORT HAZARD CLASS(ES)</b>	Not applicable	Not applicable	Not applicable
<b>PACKING GROUP</b>	Not applicable	Not applicable	Not applicable
<b>REPORTABLE QUANTITY (RQ)</b>	No reportable quantity for this product		
<b>EMERGENCY RESPONSE GUIDEBOOK (ERG) REFERENCE</b>	Not applicable		
<b>MARINE POLLUTANT</b>	None		

## SECTION 15: REGULATORY INFORMATION

<b>TOXIC SUBSTANCES CONTROL ACT (TSCA)</b>	This product is listed on the U.S. EPA TSCA Inventory.
<b>EXPORT NOTIFICATIONS</b>	This product is not subject to TSCA 12B Export Notification requirements.
<b>SIGNIFICANT NEW USE RULE (SNUR)</b>	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:

<b>DSL</b>	Canada	Yes	
<b>NDSL</b>	Canada	No	
<b>ENCS</b>	Japan	Yes	Registry No. 2-217
<b>EINECS</b>	Europe	Yes	Registry No. 204-017-6
<b>ELINCS</b>	Europe	No	
<b>IECSC</b>	China	Yes	
<b>PICCS</b>	Philippines	Yes	
<b>ECL</b>	Korea	Yes	Registry No. KE-26419
<b>AICS</b>	Australia	Yes	

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

<b>EHS COMPONENTS</b>	<b>CASRN</b>	<b>PERCENT</b>	<b>TPQ POUNDS and RQ</b>
No limits established for this product.			

<b>313 COMPONENTS</b>	<b>CASRN</b>	<b>PERCENT</b>	<b>REPORTING LIMIT</b>
No limits established for this product.			

<b>CERCLA/SARA COMPONENTS</b>	<b>CASRN</b>	<b>PERCENT</b>	<b>REPORTING LIMIT</b>
No limits established for this product.			

<b>EPCRA SECTION 311/312 CLASSIFICATION</b>	<b>ACUTE</b>	No
	<b>CHRONIC</b>	No
	<b>FIRE</b>	No
	<b>PRESSURE</b>	No
	<b>REACTIVE</b>	No

**OTHER FEDERAL REGULATIONS**

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

<b>COMPONENT NAME</b>	<b>CASRN</b>
No regulated components	

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

<b>COMPONENT NAME</b>	<b>CASRN</b>
Hexadecyl alcohol	36653-82-4

The following components are identified under the Clean Air Act as Hazardous Air Pollutants (HAP)

<b>COMPONENT NAME</b>	<b>CASRN</b>
No regulated components	

The following components are identified under the Clean Air Act HON-Rule Hazardous Air Pollutants (HAP)

<b>COMPONENT NAME</b>	<b>CASRN</b>
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
----------------	-------	-------	-----------

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.

<b>SDS GENERATED BY</b>	PSIMCOX
<b>SDS VERSION DATE</b>	5/7/2015 8:40:13 PM
<b>SDS APPROVED BY</b>	Patrick B. Simcox Manager – Health, Safety, & Environmental e-mail: psimcox@ksallc.com

<b>MANUFACTURER(S)</b>	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
	FATTY CHEMICALS (MALAYSIA) SDN. BHD. 2510 Lorong Perusahaan Satu, Prai Industrial Complex 13600 Prai, Penang, MALAYSIA

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

<b>HEALTH</b>	0
<b>FLAMMABILITY</b>	1
<b>REACTIVITY</b>	0

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

<b>HEALTH</b>	0
<b>FLAMMABILITY</b>	1
<b>REACTIVITY</b>	0

The following components of this product are listed on the Canadian WHMIS Ingredient Disclosure List (IDL):

<b>COMPONENT</b>	<b>CASRN</b>	<b>PERCENT</b>	<b>MINIMUM CONCENTRATION</b>
------------------	--------------	----------------	----------------------------------

**END OF DOCUMENT**