#### **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 KALCOL 4098
PRODUCT CASRN 112-72-1

PRODUCT DESCRIPTION Aliphatic fatty alcohol

SDS DOCUMENT No. 267568

**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
Serious Eye Damage/Eye Irritation Category 2A

SIGNAL WORD Warning

HAZARD STATEMENTS Causes serious eye irritation.

### **HAZARD PICTOGRAMS**



### **RECOMMENDED SAFETY PRECAUTIONS**

Wash thoroughly after handling.

Wear chemical-resistant gloves and clothing, eye protection and face protection.

**EMERGENCY RESPONSE** 

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

### **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-Tetradecanol	Myristyl alcohol	112-72-1	98.0 - 100.0

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

Symptoms can include irritation, redness, scratching of the cornea, and tearing. Symptoms may include redness, edema, drying, defatting and cracking of the skin. **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 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

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

**PROCEDURES** 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. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Dike the spilled material, where this is possible. Block any potential routes to water systems.

SPILL CLEANUP PROCEDURES

Do not allow the spilled product to enter public drainage system or open water courses. Wear appropriate protective equipment and clothing during clean-up. Shovel the material into waste container. Thoroughly wash the area with water after a spill or leak clean-up.

REQUIRED EQUIPMENT

No additional information on equipment.

ADDITIONAL INFORMATION

No other spill procedures necessary.

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

HANDLING REQUIREMENTS 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 this product from heat, sparks, or open flame.

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.

#### 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.

### **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	рН	No applicable
VAPOR DENSITY	No data available	VAPOR PRESSURE	No data available
EVAPORATION RATE	No data available	RELATIVE DENSITY	0.82 @ 40°C
MELTING POINT (°C)	37.0°C	WATER SOLUBILITY	Insoluble in water
INITIAL BOILING POINT (°C)	296.0°C	BOILING RANGE (°C)	No data available
PARTITION COEFFICIENT (N- OCTANOL/WATER)	No data available	VISCOSITY	16mPa-s @ 40°C
DECOMPOSITION TEMPERATURE	No data available	FLAMMABILITY CLASSIFICATION	CLASS IIIB
FLASH POINT (°C)	156°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** 

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** 

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

No skin irritation can be expected from single short-term exposure to this product. **SKIN EFFECTS** 

Prolonged or repeated contact may produce some irritation.

**ACUTE ORAL** 

(INGESTION)

**EFFECTS** 

Not a likely route of entry.

**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** 

**MUTAGENCITY** 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**

**LD50 ORAL** LD50 Oral Rat > 5000 mg/kg

LD50 DERMAL LD50 Dermal Rabbit > 5 g/kg

MEDICAL CONDITIONS AGGRAVATED by EXPOSURE

No information available.

ROUTES of ENTRY

ROUTES of ENTRY

ROUTES of ENTRY

inhalation.

OTHER TOXICOLOGICAL

Skin Corrosion/Irritation: Rabbit, 100%, 4 hr. semi-occluded application (OECD404):

Not Classified

Serious Eye Damage/Irritation: Rabbit, 100%, OECD Guidelines No.405: Irritant

Skin Sensitization: Guinea Pig, Guinea Pig Maximization Test: Negative

# **SECTION 12: ECOLOGICAL INFORMATION**

### **UN GHS AQUATIC TOXICITY CLASSIFICATION INFORMATION**

AQUATIC TOXICITY CLASSIFICATION

Chronic 1

SIGNAL WORD

Warning

HAZARD PICTOGRAM



**HAZARD STATEMENT** | Very toxic to aquatic life with long lasting effects.

**PREVENTION** Avoid release to the environment.

**RESPONSE** Collect spillage.

**DISPOSAL** 

**INFORMATION** 

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

### **ADDITIONAL ENVIRONMENTAL INFORMATION**

AQUATIC TOXICITY

96 hr LC50 Rainbow Trout > 1 mg/L
96 hr EC50 Green Algae > 10 mg/L

ECOTOX.

None determined

ENVIRONMENTAL 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 & Closed bottle test (BODIS-test) : 92 % (28 days)

**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 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	UN3077	UN3077	UN3077

UN PROPER SHIPPING NAME	Environmentally hazardous substances, solid, n.o.s.	Environmentally hazardous substances, solid, n.o.s.	Environmentally hazardous substances, solid, n.o.s.
TECHNICAL NAME	myristyl alcohol	myristyl alcohol	myristyl alcohol
TRANSPORT HAZARD CLASS(ES)	9	9	9
PACKING GROUP	III	III	III

REPORTABLE No reportable quantity
QUANTITY (RQ) for this product

EMERGENCY
RESPONSE
GUIDEBOOK (ERG)
REFERENCE

171

MARINE POLLUTANT | MARINE POLLUTANT

### **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	2-217
EINECS	Europe	Yes	204-000-3
ELINCS	Europe	No	
IECSC	China	Yes	
PICCS	Philippines	Yes	
ECL	Korea	Yes	KE-33362
AICS	Australia	Yes	

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

EHS COMPO	ONENTS	CASRN	PERCENT	TPQ POUNDS and RQ
No limits established	for this product.			
313 COMPO	ONENTS	CASRN	PERCENT	REPORTING LIMIT
No limits established product.	for this			
product.				
CERCLA/SARA CO		CASRN	PERCENT	REPORTING LIMIT
No limits established product.	for this			
	ACUTE	Yes		
EPCRA SECTION	CHRONIC	No		
311/312 CLASSIFICATION	FIRE	No		
	PRESSURE	No		
	REACTIVE	No		
OTHER FEDERAL REG			an Air Act HON-Rul	e for SOCMI chemicals: CASRN
No regulated components			<u> </u>	
The following compo	nents are identif COMPONENT N		an Air Act (VOCs in	SOCMI chemicals): CASRN
No regulated compo	nents			
			ı	
The following compo	onents are identif		an Air Act as Hazard	dous Air Pollutants (HAP) CASRN
No regulated components			<u> </u>	
			1	
	onents are identif	ied under the Clea	an Air Act HON-Rul	e Hazardous Air Pollutants
(HAP)	COMPONENT N	IAME	I	CASRN
			L	

Nο	regul	ated	com	ponents
110	I CE UI	attu	COIII	ponicitis

#### 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.

SDS GENERATED BY HAZEMS

**SDS VERSION DATE** 4/22/2015 12:50:42 PM

Patrick B. Simcox

SDS APPROVED BY Manager – Health, Safety, & Environmental

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

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0

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

HEALTH	2
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
Myristic alcohol	112-72-1	98.0 - 100.0	1 %

### **END OF DOCUMENT**