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 FLORAMAT PRODUCT CASRN 67801-64-3

PRODUCT DESCRIPTION CYCLIC ALIPHATIC ESTER

SDS DOCUMENT No. K80050

RECOMMENDED USES This product is intended for use in fragrance 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 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).

Not Applicable SIGNAL WORD

HAZARD

Not Applicable **STATEMENTS**

RECOMMENDED SAFETY PRECAUTIONS

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

INJURY PREVENTION 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 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 (%)
Carbonic acid, 2-(1,1- dimethylethyl)cyclohexyl ethyl ester	Ethyl 2-tert-butylcyclohexyl carbonate	67801-64-3	~ 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

Remove contact lens immediately, if present and easy to remove. Immediately flush **EYES**

eyes with plenty of water for at least 15 minutes. If necessary, seek medical

attention.

For skin contact, wash immediately with soap and water. If necessary, seek medical SKIN

attention.

If the material is swallowed, get immediate medical attention or advice. **INGESTION**

If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing **INHALATION**

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 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 | Stop the flow of material, if this is without risk. Contain the discharged material.

SPILL CLEANUP Absorb spill with inert material. Shovel material into appropriate container for

PROCEDURES disposal.

REQUIRED Shovel the material into waste container. **EQUIPMENT**

ADDITIONAL No other spill procedures necessary. **INFORMATION**

RESPONSE TO LARGE SPILLS OF PRODUCT

Stop the flow of material, if this is without risk. Dike the spilled material, where this **SPILL CONTAINMENT** is possible. Prevent liquid from entering sewers. Keep out of drains and water

courses.

Absorb spill with inert material. Shovel material into appropriate container for **SPILL CLEANUP PROCEDURES**

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 Wear appropriate protective equipment and clothing during clean-up. **EQUIPMENT**

Surfaces may become slippery after spillage. Have emergency equipment readily **ADDITIONAL** INFORMATION 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. 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 exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE Wear chemical goggles. A full-face shield is recommended when handling this

PROTECTION material at an elevated temperature.

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, colorless liquid	ODOR	Characteristic odor
ODOR THRESHOLD	No data available	рН	No information available
VAPOR DENSITY	No data available	VAPOR PRESSURE	No data available
EVAPORATION RATE	No data available	RELATIVE DENSITY	0.97g/mL @ 25°C
MELTING POINT (°C)	No data available	WATER SOLUBILITY	Poor 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 CLASSIFICATION	CLASS IIIB

FLASH POINT (°C)

118°C
Cleveland Open Cup

AUTO-IGNITION
TEMPERATURE

No data available

UPPER EXPLOSIVE LOWER

LIMIT No data available 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

Decomposition of this product will produce carbon dioxide

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

EFFECTS (INGESTION)

Not a likely route of entry.

ACUTE INHALATION

EFFECTS

No significant health risk anticipated

TARGET ORGANS No known effects.

CHRONIC EFFECTS

MUTAGENCITY Ames Test Negative

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

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 > 2000 mg/kg

LD50 DERMAL No information available

LC50 INHALATION No information available

MEDICAL CONDITIONS AGGRAVATED by EXPOSURE

No information available.

Routes of entry for solids and liquids include eye and skin contact, ingestion and **ROUTES of ENTRY**

inhalation.

OTHER TOXICOLOGICAL INFORMATION

Irritant

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

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

Skin Sensitization: 100%, OECD Guidelines No.406: Negative

SECTION 12: ECOLOGICAL INFORMATION

UN GHS AQUATIC TOXICITY CLASSIFICATION INFORMATION

AQUATIC TOXICITY Acute 3 CLASSIFICATION Chronic 3

Not applicable SIGNAL WORD

HAZARD
PICTOGRAM
Not applicable

HAZARD STATEMENT Harmful 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 TOXICITY 96 hr LC50 Zebrafish : 10 - 100 mg/L

ECOTOXICITY None determined

ENVIRONMENTAL FATENo data available for this product.

BIOLOGICAL
OXYGEN DEMAND
(BOD5), g/g

No data available

CHEMICAL OXYGEN
DEMAND (COD), g/g

PERSISTENCE & No information available.

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 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	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	LVC
EINECS	Europe	Yes	Registry No. 267-184-4
ELINCS	Europe	No	

IECSC	China	Yes	
PICCS	Philippines	Yes	
ECL	Korea	Yes	KE-04707
AICS	Australia	Yes	
TCSI	Taiwan	Yes	

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

EHS COMPO	NENTS	CASRN	PERCENT	TPQ POUNDS and RQ
No limits established f	or this product.			
313 COMPONENTS		CASRN	PERCENT	REPORTING LIMIT
No limits established f	or this product.			
CERCLA/SARA COI	MPONENTS	CASRN	PERCENT	REPORTING LIMIT
No limits established f	or this product.			
	ACUTE	No		
5000 4 65 6 7 10 11	CHRONIC	No		
EPCRA SECTION 311/312	FIRE	No		
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 HON-Rule Hazardous Air Pollutants (HAP)

COMPONENT NAME		CASRN
gulated components		
Illowing components are identif	fied under the Clean Water Δct·	
ollowing components are identif	fied under the Clean Water Act:	

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 Florida, Massachusetts, Michigan, Pennsylvania, or New Jersey.

CALIFORNIA SAFE WATER and TOXIC ENFORCEMENT ACT of 1986 (Proposition 65)

COMPONENT NAME CASRN CONCENTRATION LIST DATA

This product contains no components which are listed on California's Proposition 65 lists.

[†] CONCENTRATIONS EXPRESSED IN % UNLESS UNITS ARE SPECIFIED

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 12/2/2015 1:28:16 PM

Patrick B. Simcox

SDS APPROVED BY Manager – Health, Safety, & Environmental

e-mail: psimcox@ksallc.com

MANUFACTURER(S) KA

KAO CORPORATION, S.A. Puig dels Tudons, 10 BARBERA DEL VALLES Barcelona, Spain 08210

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	ח
PROTECTION	0

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

COMPONENT	CACDAL	DEDCENT	MINIMUM
COMPONENT	CASRN	PERCENT	CONCENTRATION

No regulatory limits established for this product.

END OF DOCUMENT