#### **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 GAMMA DECALACTONE

PRODUCT CASRN 706-14-9
PRODUCT DESCRIPTION aliphatic lactone

**SDS DOCUMENT No.** K02015

**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).

SIGNAL WORD Not Applicable

HAZARD
STATEMENTS
Not Applicable

#### RECOMMENDED SAFETY PRECAUTIONS

#### INJURY PREVENTION

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.

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 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 (%)
2(3H)-Furanone, 5-hexyldihydro-	gamma-decalactone	706-14-9	~ 100

If any items in the table above are described as CONFIDENTIAL, Kao Specialties Americas LLC considers this information to constitute a Trade Secret.

Product: GAMMA DECALACTONE SDS ID: K02015

## **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

**HAZARD** 

None known. **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** Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or

PRODUCTS of low molecular weight hydrocarbons. **COMBUSTION** 

**PROPERTIES THAT COULD INCREASE** No known hazards. **FIRE or EXPLOSION** 

**EXTINGUISHING** Powder, alcohol-resistant foam, CO2 & sand **MEDIA** 

**FIRE-FIGHTING** Firefighters should wear full protective clothing including self contained breathing **INSTRUCTIONS** 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 **PROCEDURES** 

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

disposal.

**REQUIRED** 

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

**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.

Product: GAMMA DECALACTONE SDS ID: K02015 Effective Date: 05-07-2015 Created Date: 10-15-1999

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 to light yellow 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	0.95g/mL @ 20.0°C
MELTING POINT (°C)	No data available	WATER SOLUBILITY	No data available.
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)	150.0°C Cleveland Open Cup	AUTO-IGNITION TEMPERATURE	No data available
UPPER EXPLOSIVE LIMIT	No data available	LOWER EXPLOSIVE LIMIT	No data available

Product: GAMMA DECALACTONE SDS ID: K02015

## **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** Liquid is mildly irritating to eyes. Vapors may also produce eye irritation.

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

**ACUTE ORAL** 

(INGESTION)

EFFECTS

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** 

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

REPRODUCTIVE and DEVELOPMENTAL

TOXICITY

No information available.

Product: GAMMA DECALACTONE SDS ID: K02015

Effective Date: 05-07-2015 Created Date: 10-15-1999 Page 6 of 12

#### **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 Rat > 5 g/kg LD50 ORAL

**LD50 DERMAL** LD50 Dermal Rabbit > 5 g/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.

**OTHER** 

**TOXICOLOGICAL INFORMATION** 

Skin Sensitization: Human, Maximization test, 10% in petrolatum: 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** 

Not applicable **PICTOGRAM** 

**HAZARD STATEMENT** | Not applicable

**PREVENTION** 

Not applicable

**RESPONSE** 

Not applicable

**DISPOSAL** 

Not applicable

Product: GAMMA DECALACTONE SDS ID: K02015

#### ADDITIONAL ENVIRONMENTAL INFORMATION

ECOTOX. None determined **INFORMATION** 

**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.

No information available **BIOACCUMLATION** 

## **SECTION 13: DISPOSAL CONSIDERATIONS**

Wastes must be tested using methods described in 40 CFR Part 261 to determine if it **WASTE DESCRIPTION** meets applicable definitions of hazardous wastes.

**GENERAL DISPOSAL** 

Clean up and dispose of waste in accordance with all federal, state, and local

**CONSIDERATIONS** 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

Product: GAMMA DECALACTONE

SDS ID: K02015

 TRANSPORT HAZARD CLASS(ES)
 Not applicable
 Not applicable
 Not applicable

 PACKING GROUP
 Not applicable
 Not applicable
 Not applicable

REPORTABLE No reportable quantity
QUANTITY (RQ) for this product

EMERGENCY RESPONSE GUIDEBOOK (ERG)

Not applicable

REFERENCE

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

EUS COMPON		CASRN	PERCENT	TPQ POUNDS and RQ
EHS COMPONENTS  No limits established for this product.		CASKIN	PERCEINI	TPQ POONDS and RQ
	or and product			
313 COMPON		CASRN	PERCENT	REPORTING LIMIT
No limits established for product.	or this			
product.				
CERCLA/SARA CON	<b>IPONENTS</b>	CASRN	PERCENT	REPORTING LIMIT
No limits established for	or this			
product.				
	ACUTE	LNa		
	ACUTE	No		
EPCRA SECTION	CHRONIC	No		
311/312 CLASSIFICATION	FIRE	No		
CLASSIFICATION	PRESSURE	No		
	REACTIVE	No		
OTUEN EENENAL DE OU				
OTHER FEDERAL REGU	ILATIONS			
The following components are identified under the Clean Air Act HON-Rule for SOCMI chemicals:				
	COMPONENT N	NAIVIE		CASRN
No regulated compone	ents			
The following compon	ents are identif	fied under the Clea	n Air Act (VOCs in SO	CMI chemicals):
	COMPONENT N			CASRN
No regulated compone	ents			
			I	
The following compon			n Air Act as Hazardou	
COMPONENT NAME				CASRN
No regulated components				
The following components are identified under the Clean Air Act HON-Rule Hazardous Air Pollutants				
(HAP)			ı	04604
COMPONENT NAME				CASRN
No regulated components				
			•	

Product: GAMMA DECALACTONE SDS ID: K02015 Effective Date: 05-07-2015 Created Date: 10-15-1999

#### The following components are identified under the Clean Water Act:

COMPONENT NAME	CASRN LIST		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 PSIMCOX

**SDS VERSION DATE** 5/7/2015 8:50:47 PM

Patrick B. Simcox

SDS APPROVED BY Manager – Health, Safety, & Environmental

e-mail: psimcox@ksallc.com

MANUFACTURER(S) Kao Corporation

1-3, Bunka 2-chome, Sumida-ku

Tokyo, Japan 131-8501 Phone: 011-81-3-5630-7700

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

Product: GAMMA DECALACTONE SDS ID: K02015 Effective Date: 05-07-2015 Created Date: 10-15-1999

## 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	6
PROTECTION	D

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

COMPONENT	CASRN	PERCENT	MINIMUM CONCENTRATION
Hydroxydecanoic acid, .gamma lactone	706-14-9	~ 100	1 %

## **END OF DOCUMENT**

Product: GAMMA DECALACTONE SDS ID: K02015 Effective Date: 05-07-2015