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 ALDEHYDE C-12 LAURYL

PRODUCT CASRN 112-54-9

PRODUCT DESCRIPTION SATURATED ALIPHATIC ALDEHYDE

SDS DOCUMENT No. K00648

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

Skin Sensitisation Category 1B
Skin Corrosion/Irritation Category 2

CLASSIFICATION Serious Eye Damage/Eye Irritation Category 2A

SIGNAL WORD Warning

HAZARD Causes skin irritation.

STATEMENTS May cause an allergic skin reaction.

Causes serious eye irritation.

HAZARD PICTOGRAMS



RECOMMENDED SAFETY PRECAUTIONS

Avoid breathing dust/fume/gas/mist/vapours/spray.

INJURY PREVENTION Wash thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

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

IF ON SKIN: Wash with plenty of soap and water.

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

present and easy to do. Continue rinsing.

EMERGENCY
RESPONSE

If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Wash contaminated clothing before reuse.

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 contents and container in accordance with local, national, and

international regulations for hazardous wastes.

HAZARDS NOT OTHERWISE CLASSIFIED

PRODUCT STORAGE

PYROPHORIC GASES Not applicable

SIMPLE 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

Created Date: 10-15-1999

SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration (%)
1-Dodecanal	Lauryl aldehyde	112-54-9	~ 100

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

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.

Immediately take off all contaminated clothing. For skin contact, wash immediately **SKIN**

with soap and water. If necessary, seek medical attention.

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

Move person to non-contaminated air. If not breathing, give artificial respiration, **INHALATION**

preferably mouth-to-mouth. If breathing is difficult, give oxygen.

SYMPTOMS of eyes: pain, watering, redness **EXPOSURE** skin: irritation, redness

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**

No known hazards.

HAZARD

MEDIA

EXTINGUISHING

Powder, alcohol-resistant foam, CO2 & sand

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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. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

SPILL CLEANUP PROCEDURES

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

disposal.

REQUIRED EQUIPMENT

Shovel the material into waste container.

ADDITIONAL INFORMATION

CAUTION! If product is absorbed on paper or cloth, arrange for disposal by incineration promptly to prevent spontaneous combustion.

RESPONSE TO LARGE SPILLS OF PRODUCT

SPILL CONTAINMENT

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. Prevent liquid from entering sewers. Keep out of drains and water courses. Stop the flow of material, if this is without risk.

SPILL CLEANUP PROCEDURES

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

Wear appropriate protective equipment and clothing during clean-up.

ADDITIONAL INFORMATION

Surfaces may become slippery after spillage. Have emergency equipment readily available. Remove soiled clothing and launder before reuse. CAUTION! If product is absorbed on paper or cloth, arrange for disposal by incineration promptly to prevent spontaneous combustion.

SECTION 7: HANDLING AND STORAGE

Product: ALDEHYDE C-12 LAURYL SDS ID: K00648

HANDLING REQUIREMENTS

As with all chemicals, good industrial hygiene practices should be followed when handling this material. Use this product with adequate ventilation. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or promptly disposed of. May cause spontaneous combustion when absorbed in paper or cloth. To avoid autoignition, used absorbents should be kept wet with water.

STORAGE REQUIREMENTS Storage area should be protected by appropriately designed containment to prevent release to groundwater or sewers.

Keep this material in a cool, dark, well-ventilated place. Do not store this material in open or unlabeled containers.

Do not store with oxidizing agents or alkalies.

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.

HAND PROTECTION

Use impervious gloves.

SKIN PROTECTION

Use of protective coveralls and long sleeves 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 | ODOR | Characteristic odor

ODOR THRESHOLD No data available pH No data available

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VAPOR PRESSURE No data available 0.030 mmHg @ 20°C **VAPOR DENSITY RELATIVE EVAPORATION RATE** No data available 0.83g/mL @ 20°C **DENSITY** WATER 8.0°C MELTING POINT (°C) Poor in Water. **SOLUBILITY INITIAL BOILING BOILING RANGE** 241.0°C No data available POINT (°C) (°C) **PARTITION COEFFICIENT (N-**No data available **VISCOSITY** No data available OCTANOL/WATER) DECOMPOSITION **FLAMMABILITY** No data available **CLASS IIIB TEMPERATURE CLASSIFICATION** 116°C **AUTO-IGNITION** FLASH POINT (°C) No data available Cleveland Open Cup **TEMPERATURE UPPER EXPLOSIVE LOWER** No data available No data available LIMIT **EXPLOSIVE LIMIT**

SECTION 10: STABILITY and REACTIVITY

CHEMICAL STABILITY Stable under normal conditions. This product gradually oxidizes when exposed to air.

CONDITIONS to

AVOID

Avoid contact with strong alkali and oxidizers. May combust spontaneously when

finely distributed

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 This product is irritating to the eyes.

SKIN EFFECTS

This product is irritating to the skin. Prolonged contact with this product may cause

allergic skin sensitization reactions.

ACUTE ORAL

EFFECTS Not a likely route of entry.

(INGESTION)

EFFECTS

ACUTE INHALATION

This product may cause slight irritation to the respiratory system.

TARGET ORGANS Repeated contact with this product will result in skin sensitization.

CHRONIC EFFECTS

MUTAGENCITY No information available

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 : 23 g/kg

LD50 DERMAL LD50 Dermal Rabbit > 2 g/kg

LC50 INHALATION No information available

MEDICAL
CONDITIONS
AGGRAVATED by

No information available.

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EXPOSURE

ROUTES of ENTRY

ROUTES of ENTRY

ROUTES of ENTRY

inhalation.

OTHER

TOXICOLOGICAL INFORMATION

Skin Corrosion/Irritation: Rabbit, 500 mg/24h: Moderate Skin Corrosion/Irritation: Human, 5 mg/48h: Mild

SECTION 12: ECOLOGICAL INFORMATION

UN GHS AQUATIC TOXICITY CLASSIFICATION INFORMATION

AQUATIC TOXICITY CLASSIFICATION

Acute 2

SIGNAL WORD

Not applicable

HAZARD

PICTOGRAM

Not applicable

HAZARD STATEMENT Toxic to aquatic life.

PREVENTION

Avoid release to the environment.

RESPONSE

Not applicable

DISPOSAL

Dispose of contents and container in accordance with local, national, and

international regulations for hazardous wastes.

ADDITIONAL ENVIRONMENTAL INFORMATION

ECOTOXICITY INFORMATION

None determined

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.

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 $% \left(1\right) =\left(1\right) \left(1\right) \left($

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 No reportable quantity QUANTITY (RQ) 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.

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NOTIFICATIONS

This product is not subject to TSCA 12B Export Notification requirements.

SIGNIFICANT NEW This ma

This material is not subject to a Significant New Use Rule under the US Toxic

USE RULE (SNUR) Substances Control Act.

INTERNATIONAL CHEMICAL INVENTORIES

All of the components of this product are listed on the following inventories:

DSL	Canada	No	
NDSL	Canada	Yes	
ENCS	Japan	Yes	Registry No. 2-494
EINECS	Europe	Yes	Registry No. 203-983-6
ELINCS	Europe	No	
IECSC	China	Yes	
PICCS	Philippines	Yes	
ECL	Korea	Yes	Registry No. KE-12824
AICS	Australia	Yes	
TCSI	Taiwan	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		

No limits established for this product.

	ACUTE	Yes
EDCDA CECTION	CHRONIC	No
EPCRA SECTION 311/312	FIRE	No
CLASSIFICATION	PRESSURE	No
	REACTIVE	l No

OTHER FEDERAL REGULATIONS

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

COMPONENT NAME

CASRN

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No regulated components					
The following components are ide		ir Act (VOCs		nemical	s):
No regulated components					
The following components are ide		ir Act as Haz		Pollutar CASRN	nts (HAP)
No regulated components					
The following components are ide (HAP) COMPONE		ir Act HON-F		ous Air CASRN	Pollutants
	INT INAIVIL		<u> </u>	CASINI	
No regulated components					
The following components are ide	entified under the Clean W	ater Act:			
COMPONENT NAME	CASRN			LIST N	IAME
No limits established for this produ	uct.				
STATE RIGHT-TO-KNOW INFORMA	ATION:				
COMPONENT NAME	CASRN	STA	NTE		List Name
If the STATE RIGHT-TO-KNOW INFO product are included on the state in Pennsylvania, or New Jersey.			-	-	-
CALIFORNIA SAFE WATER and TO	XIC ENFORCEMENT ACT of	1986 (Prop	osition 65)		
COMPONENT NAME	CASRN	CONCEN	TRATION [†]		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

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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 6/27/2016 2:32:25 PM

Patrick B. Simcox

SDS APPROVED BY Manager – Health, Safety, & Environmental

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

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	

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

COMPONENT	CASRN	PERCENT	MINIMUM CONCENTRATION
Lauryl aldehyde	112-54-9	~ 100	1 %

END OF DOCUMENT

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