#### **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-10

PRODUCT CASRN 112-31-2

PRODUCT DESCRIPTION Saturated aliphatic aldehyde

SDS DOCUMENT No. K00646

**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 Serious Eye Damage/Eye Irritation Category 2A

**CLASSIFICATION** Flammable Liquid Category 4

SIGNAL WORD Warning

HAZARD Combustible Liquid

**STATEMENTS** Causes serious eye irritation.

HAZARD PICTOGRAMS



#### RECOMMENDED SAFETY PRECAUTIONS

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

**INJURY PREVENTION** Wash thoroughly after handling.

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

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

present and easy to do. Continue rinsing.

EMERGENCY
RESPONSE

If eye irritation persists:

If eye irritation persists: Get medical advice/attention.

In Case of Fire: Keep away from sources of ignition and use appropriate extinguishing

media.

**PRODUCT STORAGE** Store in a well-ventilated place. Keep cool.

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

international regulations for hazardous wastes.

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

#### 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-Decanal	Capraldehyde	112-31-2	~ 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

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

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

## HANDLING REQUIREMENTS

As with all chemicals, good industrial hygiene practices should be followed when handling this material. Use this product with adequate ventilation. Keep away from sources of ignition. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or promptly disposed of. Do not cut or weld on empty drums. Sufficient vapors from residues may be present to cause explosion and serious injury and/or death. Container and equipment used to transfer this product must be properly grounded/bonded to avoid ignition resulting from static accumulation. May cause spontaneous combustion when absorbed in paper or cloth. To avoid autoignition, used absorbents should be kept wet with water.

## STORAGE REQUIREMENTS

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** Provide adequate local exhaust ventilation to maintain worker exposure below

**CONTROLS** 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**

Clear colorless to light yellow **ODOR** Characteristic odor No data available No information available **ODOR THRESHOLD** pН **VAPOR DENSITY** No data available **VAPOR PRESSURE** No data available RELATIVE **EVAPORATION RATE** No data available 0.83g/mL @ 20°C **DENSITY** WATER MELTING POINT (°C) No data available Poor in Water. **SOLUBILITY INITIAL BOILING BOILING RANGE** 209°C No data available POINT (°C) (°C) **PARTITION COEFFICIENT (N-**No data available **VISCOSITY** No data available OCTANOL/WATER)

Product: ALDEHYDE C-10 SDS ID: K00646

Effective Date: 05-27-2015 Created Date: 10-15-1999 **DECOMPOSITION FLAMMABILITY** No data available **CLASS IIIA TEMPERATURE CLASSIFICATION** 

**AUTO-IGNITION** FLASH POINT (°C) No data available **TEMPERATURE** Cleveland Open Cup

**UPPER EXPLOSIVE LOWER** No data available No data available **EXPLOSIVE LIMIT** LIMIT

**SECTION 10: STABILITY and REACTIVITY** 

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

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

**AVOID** finely distributed

**INCOMPATIBLE MATERIALS** None known.

(Reactivity)

**INCOMPATIBLE MATERIALS** (Storage No information available.

**HAZARDOUS DECOMPOSITION** None known.

**HAZARDOUS** Will not occur.

**SECTION 11: TOXICOLOGICAL INFORMATION** 

**ACUTE EFFECTS** 

**POLYMERIZATION** 

& Transport)

**PRODUCTS** 

**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** Not a likely route of entry.

(INGESTION)

**ACUTE INHALATION** This product may cause slight irritation to the respiratory system. **EFFECTS** 

**TARGET ORGANS** No known effects.

#### **CHRONIC EFFECTS**

**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 : 3730 μL/kg

LD50 DERMAL LD50 Dermal Rabbit : 5040 μL/kg

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: Guinea Pig, undiluted, 24 hour closed patch test: mean

score = 2.4

Skin Corrosion/Irritation: Guinea Pig, undiluted, open application test: mean score =

8.0

### **SECTION 12: ECOLOGICAL INFORMATION**

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

AQUATIC TOXICITY CLASSIFICATION

Acute 2

SIGNAL WORD

Not applicable

HAZARD Not applicable

**HAZARD STATEMENT** Toxic to aquatic life.

**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**

ı

ECOTOX.
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

environmental regulations.

DISPOSAL of EMPTY

Dispose of waste material according to Local, State, Federal, and Provincial

**CONTAINERS** Environmental Regulations.

RCRA COMPONENT CASRN DATA

No limits established for this product.

## **SECTION 14: TRANSPORT INFORMATION**

	US DOT	IATA	IMDG
UN NUMBER	NA1993	Not applicable	Not applicable
UN PROPER SHIPPING NAME	Combustible liquid, n.o.s.	Non-hazardous material	Non-hazardous material
TECHNICAL NAME	containing 1-decanal	Not applicable	Not applicable
TRANSPORT HAZARD CLASS(ES)	3	Not applicable	Not applicable
PACKING GROUP	Ш	Not applicable	Not applicable
REPORTABLE QUANTITY (RQ)	No reportable quantity for this product		
EMERGENCY RESPONSE GUIDEBOOK (ERG) REFERENCE	128		
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	Registry No. 2-494
EINECS	Europe	Yes	Registry No. 203-957-4
ELINCS	Europe	No	

IECSC	China	Yes	
PICCS	Philippines	Yes	
ECL	Korea	Yes	Registry No. KE-09398
AICS	Australia	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 ostablished for this	•	-	-

No limits established for this product.

<b>EPCRA SECTION</b>
311/312
CLASSIFICATION

ACUTE	No
CHRONIC	No
FIRE	Yes
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 (HAP)	ntified under the Clean Air Act H	ON-Rule Hazardous Air Pollutants		
COMPONEN	IT NAME	CASRN		
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 INFORMA	TION:			

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.

STATE

**List Name** 

**CASRN** 

### **SECTION 16: OTHER INFORMATION**

**COMPONENT NAME** 

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

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5/27/2015 7:57:52 AM

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#### MANUFACTURER(S)

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

HEALTH	1
FLAMMABILITY	2
REACTIVITY	0

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

HEALTH	1
FLAMMABILITY	2
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

No regulatory limits established for this product.

### **END OF DOCUMENT**