#### **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-08 BHT

PRODUCT CASRN 124-13-0

PRODUCT DESCRIPTION SATURATED ALIPHATIC ALDEHYDE

SDS DOCUMENT No. K00650

**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 Corrosion/Irritation Category 2

CLASSIFICATION Serious Eye Damage/Eye Irritation Category 2A

Flammable Liquid Category 3

SIGNAL WORD Warning

HAZARD Flammable liquid and vapour.

STATEMENTS Causes skin irritation.

Causes serious eye irritation.

#### **HAZARD PICTOGRAMS**





#### RECOMMENDED SAFETY PRECAUTIONS

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

Keep container tightly closed.

Ground/bond container and receiving equipment.

**INJURY PREVENTION** 

Use explosion-proof equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower.

**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.

In case of fire: Use dry chemical powder, alcohol-resistant foam, carbon dioxide, or

sand to extinguish.

**PRODUCT STORAGE** 

Keep container tightly closed.

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

**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

# **SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS**

Chemical Name	Common Name	CAS Number	Concentration (%)
Octanal	Caprylaldehyde	124-13-0	~ 100
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	Butylated hydroxytoluene	128-37-0	<0.1

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

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

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

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

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

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

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

**NOTES to PHYSICIAN** | Provide general supportive measures and treat symptomatically.

### **SECTION 5: FIRE-FIGHTING MEASURES**

FLAMMABLE PROPERTIES Refer to SECTION 9: Physical and Chemical 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

Vapors can travel to a source of ignition and flash back.

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. 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. Any equipment which presents a risk of accumulating static electricity should be properly grounded/bonded when used in the clean-up of this material.

# 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 area should be protected by appropriately designed containment to prevent release to groundwater or sewers.

**STORAGE** REQUIREMENTS Eliminate all sources of ignition.

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. Explosion proof exhaust ventilation should be used.

#### PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE

Wear chemical goggles and face shield. **PROTECTION** 

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 liquid	ODOR	Harsh, fatty, citrus odor
ODOR THRESHOLD	No data available	рН	No information available
VAPOR DENSITY	4.4 (air = 1)	VAPOR PRESSURE	0.15 kPa @ room temperature
EVAPORATION RATE	No data available	RELATIVE DENSITY	0.82g/mL @ 20°C
MELTING POINT (°C)	-20°C	WATER SOLUBILITY	No data available.
INITIAL BOILING POINT (°C)	175°C @ 760 mmHg	BOILING RANGE (°C)	No data available
PARTITION COEFFICIENT (N- OCTANOL/WATER)	3.5 (n-octanol/water)	VISCOSITY	1.26 cP (dynamic)
DECOMPOSITION TEMPERATURE	No data available	FLAMMABILITY CLASSIFICATION	CLASS II
FLASH POINT (°C)	54°C Cleveland Open Cup	AUTO-IGNITION TEMPERATURE	196.35°C
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	Keep away from heat, ignition sources and incompatible materials.
INCOMPATIBLE MATERIALS (Reactivity)	None known.
INCOMPATIBLE MATERIALS (Storage & Transport)	This product may react with strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS	None known.

Will not occur.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

**ACUTE EFFECTS** 

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

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

**ACUTE ORAL** 

EFFECTS Not a likely route of entry. (INGESTION)

**ACUTE INHALATION** 

**EFFECTS** 

This product may cause slight irritation to the respiratory system.

**TARGET ORGANS** No known effects.

**CHRONIC EFFECTS** 

MUTAGENCITY Ames Test Negative

**TERATOLOGY** Rat: dose = 1500 mg/kg; exposure = 9 day; result = negative (oral)

REPRODUCTIVE and DEVELOPMENTAL

**TOXICITY** 

**ENTAL** 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 : 4617 mg/kg

LD50 DERMAL LD50 Dermal Rabbit > 5207 mg/kg

LC50 INHALATION No information available

**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.

Skin Corrosion/Irritation: Rabbit, Irritant Serious Eye Damage/Irritation: Rabbit, Irritant

**OTHER** 

Skin Sensitization: Guinea Pig, Negative

**TOXICOLOGICAL** INFORMATION

REPRODUCTIVE TOXICITY: Rat (female) Dose - 300 mg/kg, 3 days/week; Maternal

Toxicity - negative; Fertility - negative; Developmental Toxin - negative

Sub-Acute NOEL (oral): rat, > 37 mg/kg

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

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

**AQUATIC TOXICITY CLASSIFICATION** 

Chronic 2

**SIGNAL WORD** 

Not applicable

**HAZARD PICTOGRAM** 



**HAZARD STATEMENT** Toxic to aquatic life with long lasting effects.

**PREVENTION** 

Avoid release to the environment.

**RESPONSE** 

Collect spillage.

**DISPOSAL** 

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

international regulations for hazardous wastes.

### **ADDITIONAL ENVIRONMENTAL INFORMATION**

**AQUATIC TOXICTY** 

(fish)

No information available

**AQUATIC TOXICITY** 

(crustacean)

48 hr EC50 daphnia magna: 1.54 mg/L

**AQUATIC TOXICITY** 

(algae)

72 hr EC50 Algae: 2.9 mg/L

AQUATIC TOXICTY (other data)

No information available

ECOTOXICITY None determined

ENVIRONMENTAL Product is biodegradable

BIOLOGICAL

OXYGEN DEMAND
(BOD5), g/g

No data available

CHEMICAL OXYGEN
DEMAND (COD), g/g
No data available

PERSISTENCE & OECD 302C Inherent Biodegradability: 77% in 28 days

DEGRADABILITY Modified MITI Test (II) - CO2 Evolution Test: 46% in 28 days

**BIOACCUMLATION** Log Pow = 3.5

## **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 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	UN1191	UN1191	UN1191
UN PROPER SHIPPING NAME	Octyl aldehydes	Octyl aldehydes	Octyl aldehydes
TRANSPORT HAZARD CLASS(ES)	3	3	3

PACKING GROUP III III III

REPORTABLE No reportable quantity
QUANTITY (RQ) for this product

EMERGENCY RESPONSE

129

GUIDEBOOK (ERG) REFERENCE

MARINE POLLUTANT | MARINE POLLUTANT

# **SECTION 15: REGULATORY INFORMATION**

TOXIC SUBSTANCES
CONTROL ACT
This product is li

This product is listed on the U.S. EPA TSCA Inventory.

**EXPORT** 

(TSCA)

NOTIFICATIONS

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

SIGNIFICANT NEW

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	Yes	
NDSL	Canada	No	
ENCS	Japan	Yes	Registry No. 2-494
EINECS	Europe	Yes	Registry No. 204-683-8
ELINCS	Europe	No	
IECSC	China	Yes	
PICCS	Philippines	Yes	
ECL	Korea	Yes	Registry No. KE-26609
AICS	Australia	Yes	
TCSI	Taiwan	Not eva	luated

# 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 COMPO		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 CHRONIC	Yes		
EPCRA SECTION 311/312 CLASSIFICATION	FIRE	Yes		
CLASSIFICATION	PRESSURE	No		
	REACTIVE	No		
OTHER FEDERAL REGU	JLATIONS			
The following compor	nents are identi	fied under the Clear	n Δir Δct HON-Rule f	or SOCMI chemicals:
The following compon	COMPONENT I			CASRN
No regulated compone	No regulated components			
The following compor	nents are identi COMPONENT I		n Air Act (VOCs in SC	OCMI chemicals): CASRN
No regulated compone	ents			
The following compor	nents are identi COMPONENT I		n Air Act as Hazardo	us Air Pollutants (HAP) CASRN
No regulated compone	ents			
The following compor			1 Air Act HON-Rule H	Hazardous Air Pollutants
COMPONENT NAME CASRN			CASRN	
No regulated components				
The following compor	nents are identi	fied under the Clea	n Water Act:	

No limits established for this product.

#### STATE RIGHT-TO-KNOW INFORMATION:

COMPONENT NAME	CASRN	STATE	List Name
Caprylaldehyde	124-13-0	Massachusetts	Right-to-Know List

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 <sup>†</sup>	LIST DATA
----------------	-------	----------------------------	-----------

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

<sup>†</sup> 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** 12/8/2015 9:19:16 AM

Patrick B. Simcox

SDS APPROVED BY Manager – Health, Safety, & Environmental

e-mail: psimcox@ksallc.com

MANUFACTURER(S) KAO CORPORATION, S.A.

Puig dels Tudons, 10 BARBERA DEL VALLES Barcelona, Spain 08210

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

HEALTH	1
FLAMMABILITY	2
REACTIVITY	0

Product: ALDEHYDE C-08 BHT SDS ID: K00650

Effective Date: 12-08-2015 Created Date: 10-15-1999

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

HEALTH	1
FLAMMABILITY	2
REACTIVITY	0
PERSONAL	D
PROTECTION	ן ט

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**