

# SAFETY DATA SHEET

## 1. Product and company identification

**Name of chemical (Product name):** ALDEHYDE C-6

**Product No.:** B0001581

### Manufacturer/Importer/Distributor Information

#### Information on domestic manufacturer

**Company Name:** Kao Corporation  
**Address:** 1-3,Bunka 2-chome,Sumida-ku,Tokyo 131-8501 Japan  
**Telephone:** +81-3-5630-7700  
**Fax:** +81-3-5630-7889  
**Contact division:** Chemical Business  
**E-mail:** chemical@kao.co.jp

**Emergency telephone number:** 81-3-5630-7700

## 2. Hazard(s) identification

### GHS classification

#### Physical Hazards

Flammable liquids Category 3

#### Health Hazards

Skin Corrosion/Irritation Category 2

Serious Eye Damage/Eye Irritation Category 2A

#### Unknown toxicity - Health

Acute toxicity, inhalation, vapor 100 %

Acute toxicity, inhalation, dust or mist 100 %

#### Environmental Hazards

Acute hazards to the aquatic environment Category 2

#### Unknown toxicity - Environment

Acute hazards to the aquatic environment 0 %

Chronic hazards to the aquatic environment 0 %

### Label Elements

**Pictograms:**



**Signal Word:**

Warning

**Hazard Statement:**

Flammable liquid and vapor.  
 Causes skin irritation.  
 Causes serious eye irritation.  
 Toxic to aquatic life.

**Precautionary Statements**

**Prevention:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Take action to prevent static discharges. Use explosion-proof electrical, ventilating and lighting equipment. Use non-sparking tools. Avoid release to the environment. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

**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. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Call a POISON CENTER/doctor if you feel unwell. In case of fire : Keep away from sources of ignition and use appropriate extinguishing media.

**Storage:**

Store in a well-ventilated place. Keep container tightly closed.

**Disposal:**

Passed to a licensed waste contractor.

**Other hazards which do not result in GHS classification:**

None.

**3. Composition/information on ingredients**

**Substances**

**Hazardous Component(s):**

Chemical name or generic name	CAS number	ISHL	ENCS	Content in percent (%)
1-Hexanal	66-25-1	(2)-494	(2)-494	

#### 4. First-aid measures

##### Description of necessary first-aid measures

<b>Inhalation:</b>	Remove person to fresh air and keep comfortable for breathing.
<b>Skin Contact:</b>	Rinse skin with water [or shower]. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash before re-use.
<b>Eye contact:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms persist.
<b>Ingestion:</b>	Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.
<b>Personal Protection for First-aid Responders:</b>	No data available.

##### Most important symptoms and effects, both acute and delayed

<b>Symptoms:</b>	No data available.
<b>Hazards:</b>	No data available.

##### Indication of immediate medical attention and special treatment needed

<b>Treatment:</b>	Get medical attention if symptoms occur.
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#### 5. Fire-fighting measures

##### Suitable (and unsuitable) extinguishing media

<b>Suitable extinguishing media:</b>	Powder, alcohol-resistant foam, carbon dioxide, sand
<b>Unsuitable extinguishing media:</b>	No data available.
<b>Special hazards arising from the substance or mixture:</b>	No data available.

##### Special protective equipment and precautions for fire-fighters

<b>Special fire-fighting procedures:</b>	Keep away from sources of ignition and use appropriate extinguishing media. Fight fire from upwind position if possible. Do not flow the materials causing adverse effects into the environment with effluent fire extinguishing agents.
<b>Special protective equipment for fire-fighters:</b>	Use goggles in combination with dust mask, and other protections as appropriate to situation.

**6. Accidental release measures**

<b>Personal precautions, protective equipment and emergency procedures:</b>	Use goggles and protective gloves. Large spills : Remove person to safety. Ensure adequate ventilation.
<b>Methods and material for containment and cleaning up:</b>	Small spills: Absorb spills with sand, inert absorbent, waste cloth or sawdust. Then wipe up remainder in waste cloth. Large spills: Dike spills and dispose of in safe area.
<b>Environmental Precautions:</b>	Avoid release to the environment.
<b>Prevention of secondary hazards:</b>	Keep away from sources of ignition and prepare extinguishing media. Do not use tools producing sparks

**7. Handling and storage**

**Handling**

<b>Technical measures (e.g. Local and general ventilation):</b>	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use an adequate ventilation. Use explosion-proof electrical equipment and prevent from static electrocity.
<b>Safe handling advice:</b>	Keep away from source of ignition. May cause spontaneous combustion, when absorbed in paper or cloth. To avoid autoignition, used absorbents should be kept wet with water. Use an adequate ventilation. Wash thoroughly after handling. Use personal protective equipment as required.
<b>Contact avoidance measures:</b>	No data available.

**Storage**

<b>Safe storage conditions:</b>	Keep container tightly closed. Store in a well-ventilated place. Do not store with oxidizing agents or alkalies. Keep away from source of ignition.
<b>Safe packaging materials:</b>	No data available.

**8. Exposure controls/personal protection**

**Control Parameters**

<b>Occupational Exposure Limits</b>	
<b>Product:</b>	None known.

**Individual protection measures, such as personal protective equipment**

<b>Eye/face protection:</b>	Safety glasses with side shield(Safety goggles or Face shield)
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<b>Hand Protection:</b>	Material: Rubber gloves
<b>Skin and Body Protection:</b>	Full-body suit
<b>Respiratory Protection:</b>	Use chemical cartridge respirator for organic solvents, as appropriate to situation.
<b>Hygiene measures:</b>	No data available.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

#### Appearance

<b>Physical state:</b>	Liquid
<b>Form:</b>	Liquid
<b>Color:</b>	Colorless to light yellow, clear

**Odor:** Characteristic odour

**Odor Threshold:** No data available.

**Freezing point:** < 68 °F/20 °C

**Boiling Point:** 263.7 °F/128.7 °C

**Flammability:** No data available.

#### Upper/lower limit on flammability or explosive limits

**Explosive limit - upper:** No data available.

**Explosive limit - lower:** No data available.

**Flash Point:** 81 °F/27 °C (Tag closed cup)

**Self Ignition Temperature:** > 212 °F/100 °C

**Decomposition Temperature:** No data available.

**pH:** No data available.

#### Viscosity

**Dynamic viscosity:** No data available.

**Kinematic viscosity:** No data available.

**Flow Time:** No data available.

#### Solubility(ies)

**Solubility in Water:** The product has poor water-solubility.

**Solubility (other):** Soluble in ethyl alcohol

**Partition coefficient (n-octanol/water):** No data available.

**Vapor pressure:** No data available.

**Relative density:** No data available.

**Density:** 0.817 g/ml (68 °F/20 °C)

**Relative vapor density:** No data available.

**Particle characteristics**

**Particle Size:** No data available.  
**Particle Size Distribution:** No data available.

<b>10. Stability and reactivity</b>
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**Reactivity:** No data available.  
**Chemical Stability:** Stable in general. Gradually oxidized in air.  
**Possibility of hazardous reactions:** No data available.  
**Conditions to avoid:** Avoid contact with oxidizing agents and bases.  
**Incompatible Materials:** No data available.  
**Hazardous Decomposition Products:** No data available.

<b>11. Toxicological information</b>
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**Acute toxicity (list all possible routes of exposure)**

**Oral Product:** No data available.  
 Not classified based on available data of component(s).

**Dermal Product:** No data available.  
 Not classified based on available data of component(s).

**Inhalation Product:** Dusts, mists and fumes: Classification not possible due to insufficient data.  
 Vapour: Classification not possible due to insufficient data.

**Skin Corrosion/Irritation Product:** No data available.

**Components:**  
 1-Hexanal Category 2: (88)

**Serious Eye Damage/Eye Irritation Product:** No data available.

**Components:**  
 1-Hexanal Category 2A: (84)

**Respiratory or Skin Sensitization Product:** Skin: Classification not possible due to insufficient data.  
 Respiratory: Classification not possible due to insufficient data.

**Carcinogenicity**

**Product:** Classification not possible due to insufficient data.

**IARC:**

No carcinogenic components identified

**NTP:**

No carcinogenic components identified

**JSOH:**

No carcinogenic components identified

**EU**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** Classification not possible due to insufficient data.

**In vivo**

**Product:** Classification not possible due to insufficient data.

**Reproductive toxicity**

**Product:** Classification not possible due to insufficient data.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** Classification not possible due to insufficient data.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** Classification not possible due to insufficient data.

**Aspiration Hazard**

**Product:** Classification not possible due to insufficient data.

**Other effects:** No data available.

<b>12. Ecological information</b>
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**Ecotoxicity:**

**Acute hazards to the aquatic environment**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Components:**

1-Hexanal Category 2: (88)

**Chronic hazards to the aquatic environment**

**Fish**

**Product:** No data available.  
 Not classified based on available data of component(s).

**Aquatic Invertebrates**

**Product:** No data available.  
 Not classified based on available data of component(s).

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Mobility in soil:** No data available.

**Hazardous to the ozone layer:** Not Regulated

**Further Information:** No data available.

**13. Disposal considerations**

**Disposal methods:** Review "HANDLING AND STORAGE (Section 7)". Passed to a licensed waste contractor. This material is containing flammable materials. Be careful in case of incineration. Remove the contents completely in case of disposal of the container.

**Contaminated Packaging:** No data available.



## 14. Transport information

### International regulations

#### IMDG

UN Number:	UN 1207
UN Proper Shipping Name:	HEXALDEHYDE
Transport Hazard Class(es)	
Class:	3
Label(s):	3
EmS No.:	F-E, S-D
Packing Group:	III
Limited quantity	5.00L
Excepted quantity	E1
Environmentally Hazardous:	No
Marine Pollutant:	No
Special precautions for user:	Not regulated.

#### IATA

UN Number:	UN 1207
UN Proper Shipping Name:	Hexaldehyde
Transport Hazard Class(es):	
Class:	3
Label(s):	3
Packing Group:	III
Excepted quantity	E1
Environmentally Hazardous:	No
Marine Pollutant:	No
Special precautions for user:	Not regulated.
Other information	
Passenger and cargo aircraft:	Allowed. 355
Cargo aircraft only:	Allowed. 366
UN Proper Shipping Name (JP):	ヘキサアルデヒド

### National Regulations

**Domestic Standard:** In compliance with domestic law.

**Emergency Response Guide Number:** 130

## 15. Regulatory information

### Industrial Safety and Health Law

Flammable materials

### Poisonous and Deleterious Substances Control Act

Not Regulated

### Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

Not Regulated

### Law concerning Pollutant Release and Transfer Register

Not Regulated

**Fire Service Act:**

Group 4: Flammable liquids, Type 2 petroleums, Water insoluble liquid, Designated Quantity (1000 litre)  
 Hazardous rank III

**Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule:**

Flammable liquids

**Air Law, Enforcement Rule:**

Flammable liquids

**Explosives Control Act:**

Not Regulated

**High Pressure Gas Safety Act:**

Not Regulated

**Export Trade Control Order**

Not Regulated

**Inventory Status:**

<b>US TSCA Inventory:</b>	On or in compliance with the inventory
<b>Canada DSL Inventory List:</b>	On or in compliance with the inventory
<b>Australia AICS:</b>	On or in compliance with the inventory
<b>Korea Existing Chemicals Inv. (KECI):</b>	Contact us for information
<b>Japan (ENCS) List:</b>	On or in compliance with the inventory
<b>Japan ISHL Listing:</b>	On or in compliance with the inventory
<b>Philippines PICCS:</b>	On or in compliance with the inventory
<b>China Inv. Existing Chemical Substances:</b>	On or in compliance with the inventory
<b>REACH (EU):</b>	Registered
<b>Taiwan Chemical Substance Inventory:</b>	On or in compliance with the inventory

**16.Other Information**

**Disclaimer:**

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. In the case of the product for fragrance, it's in accordance with the latest standard of IFRA within ordinary use. Contact with the supplier for detail information.

**Reference:**

- Hazard communication of chemicals based on GHS -- Labelling and Safety Data Sheet (SDS) (JIS Z 7253 : 2019)
- International Chemical Safety Cards(ICSC) (Compiler's Guide)(1994)
- GHS guideline -- Labelling and Safety Data Sheet (2019) Japan Chemical Industry Association  
(84): IFRA-IOFI LABELING MANUAL  
(88): ECHA-REACH Registered Substances Database