

# SAFETY DATA SHEET

## 1. Identification of the substance or mixture and of the supplier

**GHS Product identifier:** ALDEHYDE C-11 UNDECYL

**Other means of identification**

**SDS number:** B0001585

**Recommended use of the chemical and restrictions on use**

**Recommended use:** Not available.

**Recommended restrictions:** Not known.

**Supplier's details**

**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  
**Division:** Chemical Business  
**E-mail:** chemical@kao.co.jp

**Emergency telephone number:** +65-3158 1074(For chemical emergencies only)

## 2. Hazard(s) identification

**GHS classification of substance or mixture, and national or regional information:**

**Health Hazards**

Skin Corrosion/Irritation Category 2

**Environmental Hazards**

Acute hazards to the aquatic environment Category 1

Chronic hazards to the aquatic environment Category 2

**Label Elements**

**Pictograms:**



**Signal Word:** Warning

**Hazard Statement:** Causes skin irritation.  
Very toxic to aquatic life.  
Toxic to aquatic life with long lasting effects.

**Precautionary Statements**

**Prevention:** Wash hands thoroughly after handling. Avoid release to the environment.  
Wear protective gloves.

**Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or

hair): Take off contaminated clothing. 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. Collect spillage.

**Storage:** -

**Disposal:** Passed to a licensed waste contractor.

**Other hazards which do not result in GHS classification:** None.

### 3. Composition/information on ingredients

#### Substances

Chemical Identity	Common name and synonyms	CAS number	Concentration*
1-Undecanal	No data available.	112-44-7	

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

#### Description of necessary first-aid measures

**Ingestion:** Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

**Inhalation:** Remove person to fresh air and keep comfortable for breathing.

**Skin Contact:** Gently wash with plenty of soap and water. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing.

**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 5. Fire-fighting measures

#### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Powder, alcohol-resistant foam, carbon dioxide, sand

**Unsuitable extinguishing media:** No data available.

**Specific hazards arising from the chemical:** No data available.

#### Special protective action for fire fighters

**Special fire fighting procedures:** 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.

**Special protective equipment for fire-fighters:** 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>For non-emergency personnel:</b>	Avoid release to the environment.
<b>For emergency responders:</b>	Avoid release to the environment.
<b>Environmental Precautions:</b>	Avoid release to the environment.
<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>Notification Procedures:</b>	Keep away from sources of ignition and prepare extinguishing media.

## 7. Handling and storage

<b>Precautions to ensure safe handling:</b>	Keep away from source of ignition. Use an adequate ventilation. Wash thoroughly after handling. Use personal protective equipment as required. May cause spontaneous combustion, when absorbed in paper or cloth. To avoid autoignition, used absorbents should be kept wet with water.
<b>Conditions for safe storage, including any incompatibilities:</b>	Keep away from source of ignition. Keep container tightly closed. Store in a well-ventilated place. Do not store with oxidizing agents or alkalies.

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

**Product:** None known.

**Appropriate Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

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

<b>Eye/face protection:</b>	Safety glasses
<b>Hand Protection:</b>	Rubber gloves
<b>Other:</b>	Full-body suit
<b>Respiratory Protection:</b>	Use 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
<b>Odor:</b>	Characteristic odour
<b>Odor Threshold:</b>	No data available.
<b>Freezing point:</b>	< 68 °F/20 °C
<b>Boiling Point:</b>	433.4 °F/223.0 °C
<b>Flammability:</b>	No data available.
<b>Upper/lower limit on flammability or explosive limits</b>	
<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.
<b>Flash Point:</b>	206.6 °F/97.0 °C (Cleveland open cup)
<b>Self Ignition Temperature:</b>	Not determined.
<b>Decomposition Temperature:</b>	No data available.
<b>pH:</b>	No data available.
<b>Viscosity</b>	
<b>Dynamic viscosity:</b>	No data available.
<b>Kinematic viscosity:</b>	No data available.
<b>Flow Time:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	The product has poor water-solubility.
<b>Solubility (other):</b>	Soluble in ethyl alcohol
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Vapor pressure:</b>	5 Pa (68.0 °F/20.0 °C)
<b>Relative density:</b>	No data available.
<b>Density:</b>	0.835 g/ml (68.0 °F/20.0 °C)
<b>Relative vapor density:</b>	No data available.
<b>Particle characteristics</b>	
<b>Particle Size Distribution:</b>	No data available.

## 10. Stability and reactivity

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

## 11. Toxicological information

### Acute toxicity (list all possible routes of exposure)

<b>Oral Product:</b>	No data available. Not classified based on available data of component(s).
----------------------	---

<b>Dermal Product:</b>	Classification not possible due to insufficient data.
<b>Inhalation Product:</b>	Dusts, mists and fumes: Classification not possible due to insufficient data. Vapour: No data available. Not classified based on available data of component(s).
<b>Skin Corrosion/Irritation Product:</b>	No data available.
<b>Components:</b> 1-Undecanal	Category 2. (88)
<b>Serious Eye Damage/Eye Irritation Product:</b>	Classification not possible due to insufficient data.
<b>Respiratory or Skin Sensitization Product:</b>	Skin: Classification not possible due to insufficient data. Respiratory: Classification not possible due to insufficient data.
<b>Carcinogenicity Product:</b>	Classification not possible due to insufficient data.
<b>Germ Cell Mutagenicity</b>	
<b>In vitro Product:</b>	Classification not possible due to insufficient data.
<b>In vivo Product:</b>	Classification not possible due to insufficient data.
<b>Reproductive toxicity Product:</b>	Classification not possible due to insufficient data.
<b>Specific Target Organ Toxicity - Single Exposure Product:</b>	Classification not possible due to insufficient data.
<b>Specific Target Organ Toxicity - Repeated Exposure Product:</b>	Classification not possible due to insufficient data.
<b>Aspiration Hazard Product:</b>	Classification not possible due to insufficient data.
<b>Other effects:</b>	No data available.

## 12. Ecological information

### 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-Undecanal Category 1: (88)

**Chronic 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-Undecanal Category 2: (88)

**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.

**Components:**  
 1-Undecanal No data available.

**Other adverse effects:** No data available.

<b>13. Disposal considerations</b>
------------------------------------

<b>Disposal methods</b>
-------------------------

**Disposal instructions:** Review "HANDLING AND STORAGE (Section 7)". Passed to a licensed waste contractor.

**Contaminated Packaging:** No data available.

<b>14. Transport information</b>
----------------------------------

**IATA**

UN Number:	UN 3082
UN Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s.(Undecanal)
Transport Hazard Class(es):	
Class:	9
Label(s):	9MI (Miscellaneous)
Packing Group:	III
Excepted quantity	E1
Environmentally Hazardous:	Yes
Marine Pollutant:	No
Special precautions for user:	Not regulated.
Other information	
Passenger and cargo aircraft:	Allowed. 964
Cargo aircraft only:	Allowed. 964

**IMDG**

UN Number:	UN 3082
UN Proper Shipping Name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(Undecanal)
Transport Hazard Class(es)	
Class:	9
Label(s):	9
EmS No.:	F-A, S-F
Packing Group:	III
Limited quantity	5.00L
Excepted quantity	E1
Environmentally Hazardous:	Yes
Marine Pollutant:	Yes
Special precautions for user:	Not regulated.

**National Regulations**

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

**Emergency Response Guide Number :** 171

**15. Regulatory information**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.**

**Fire Safety (Petroleum and Flammable Materials) Regulations**

Not applicable

**Inventory Status:**

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

**16. Other information, including date of preparation or last revision****Issue Date:** 2021.03.24**Version #:** 1.0**Source of information:** No data available.**Further Information:** No data available.

**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 (88): ECHA-REACH Registered Substances Database