

SAFETY DATA SHEET

1. Product and company identification

Name of chemical (Product name): ALDEHYDE C-11 UNDECYL

Product No.: B0001585

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

Emergency telephone number: 81-3-5630-7700

2. Hazard(s) identification

GHS classification:

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

GHS label elements

Pictograms:



Signal Word: Warning

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

Prevention: Wash 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. Get medical advice/attention if you feel unwell. Collect spillage.

Storage: -

Disposal: Passed to a licensed waste contractor.

Unknown toxicity - Health

Acute toxicity, dermal	99.95 %
Acute toxicity, inhalation, dust or mist	100 %

Unknown toxicity - Environment

Acute hazards to the aquatic environment	0 %
Chronic hazards to the aquatic environment	0 %

3. Composition/information on ingredients
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Substances

Chemical name or generic name	CAS number	ISHL	ENCS	Content in percent (%)
1-Undecanal	112-44-7	(2)-494	(2)-494	

4. First-aid measures

Description of necessary first-aid measures

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

Skin Contact: If skin irritation occurs, get medical advice/attention. Flush skin with running water. Take off contaminated clothing and wash before re-use.

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

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

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 equipment and precautions for firefighters

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

Personal precautions, protective equipment and emergency procedures Use goggles and protective gloves. Large spills : Remove person to safety. Ensure adequate ventilation.

Methods and material for containment and cleaning up: 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.

Environmental Precautions: Avoid release to the environment.

Prevention of secondary hazards: Keep away from sources of ignition and prepare extinguishing media.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation): Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

Safe handling advice: 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.

Contact avoidance measures: No data available.

Hygiene measures: No data available.

Storage

Safe storage conditions: Keep away from source of ignition. Keep container tightly closed. Store in a well-ventilated place. Do not store with oxidizing agents or alkalies.

Safe packaging materials: No data available.

Storage Temperature: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None known.

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety glasses

Hand Protection: Material: Rubber gloves

Skin and Body Protection: Full-body suit

Respiratory Protection: Use as appropriate to situation.

9. Physical and chemical properties

Appearance

Physical state: liquid
Form: Liquid
Color: Colorless to light yellow, clear
Odor: Characteristic odour
Odor Threshold: No data available.
pH: No data available.
Freezing point: < 68 °F/20 °C
Boiling Point: 433.4 °F/223.0 °C
Flash Point: 206.6 °F/97.0 °C (Cleveland open cup)
Evaporation Rate: No data available.
Flammability: No data available.
Explosive limit - upper: No data available.
Explosive limit - lower: No data available.

Vapor pressure:	5 Pa (68.0 °F/20.0 °C)
Relative vapor density:	No data available.
Density:	0.835 g/ml (68.0 °F/20.0 °C)
Relative density:	No data available.
Solubility in Water:	The product has poor water-solubility.
Solubility (other):	Soluble in ethyl alcohol
Partition coefficient (n-octanol/water):	No data available.
Self Ignition Temperature:	> 212 °F/100 °C
Decomposition Temperature:	No data available.
Kinematic viscosity:	No data available.
Dynamic viscosity:	No data available.
Particle properties:	No data available.

10. Stability and reactivity

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.

11. Toxicological information

Acute toxicity (list all possible routes of exposure)

Oral Product:	No data available. Not classified based on available data of component(s).
Dermal Product:	Classification not possible due to insufficient data.
Inhalation Product:	Dusts, mists and fumes: Classification not possible due to insufficient data. Vapour: No data available. Not classified based on available data of component(s).

Skin Corrosion/Irritation

Product: No data available.

Components:

1-Undecanal Category 2 (88)

Serious Eye Damage/Eye Irritation

Product: Classification not possible due to insufficient data.

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

ACGIH:

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.

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.

Hazardous to the ozone layer: Not Regulated
 No data available.
 Not classified based on available data of component(s).

Further Information: No data available.

13. Disposal considerations

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

Contaminated Packaging: No data available.

14. Transport information

International regulations

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.

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

UN Proper Shipping Name (JP): 環境有害物質 (液体) (Undecanal)

National Regulations

Domestic Standard: In compliance with domestic law.

Emergency Response Guide Number171

15. Regulatory information

Law concerning Pollutant Release and Transfer Register
 Not Regulated

Industrial Safety and Health Law

Not Regulated

Poisonous and Deleterious Substances Control Act

Not Regulated

Explosives Control Act:

Not Regulated

High Pressure Gas Safety Act:

Not Regulated

Fire Service Act:

Group 4: Flammable liquids, Type 3 petroleum, Water insoluble liquid, Designated Quantity (2000 litre)
 III: Hazardous rank III

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

Not Regulated

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

Miscellaneous dangerous substances and articles

Air Law, Enforcement Rule:

Miscellaneous dangerous substances and articles

Act on Prevention of Marine Pollution and Maritime Disaster:

Pack transport, Marine pollutant

Export Trade Control Order

Not Regulated

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**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