

SAFETY DATA SHEET

[1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : ALDEHYDE C-8
SUPPLIER : Kao Corporation
ADDRESS : 1-3,Bunka 2-chome,Sumida-ku,Tokyo 131-8501 Japan
DIVISION : Global Chemical Business
TELEPHONE NUMBER : 81-3-5630-7700
FAX NUMBER : 81-3-5630-7889
E-MAIL ADDRESS : chemical@kao.co.jp
EMERGENCY TELEPHONE NUMBER : 81-3-5630-7700
RECOMMENDED USE :
AND RESTRICTIONS ON USE :

[2.HAZARDS IDENTIFICATION]

GHS CLASSIFICATION

PHYSICAL AND CHEMICAL HAZARDS

FLAMMABLE LIQUIDS : Category 3

HEALTH HAZARDS

ACUTE TOXICITY (Oral) : Not classified
ACUTE TOXICITY (Dermal) : Not classified
ACUTE TOXICITY (Inhalation) : Not classified(Vapours)
SKIN CORROSION / IRRITATION : Category 2
SERIOUS EYE DAMAGE / EYE IRRITATION : Category 2A
RESPIRATORY SENSITIZATION : Classification not possible
SKIN SENSITIZATION : Classification not possible
GERM CELL MUTAGENICITY : Classification not possible
CARCINOGENICITY : Classification not possible
REPRODUCTIVE TOXICITY : Classification not possible
SPECIFIC TARGET ORGAN TOXICITY
- SINGLE EXPOSURE : Classification not possible
- REPEATED EXPOSURE : Classification not possible
ASPIRATION HAZARD : Classification not possible

ENVIRONMENTAL HAZARDS

HAZARDOUS TO THE AQUATIC ENVIRONMENT

- ACUTE HAZARD : Category 2
- LONG-TERM HAZARD : Category 2
- HAZARDOUS TO THE OZONE LAYER : Classification not possible

GHS LABEL ELEMENTS

PICTOGRAMS OR SYMBOLS :



SIGNAL WORD : Warning
HAZARD STATEMENTS : Flammable liquid and vapour
Causes skin irritation
Causes serious eye irritation
Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS

PREVENTION : Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep container tightly closed.

| | |
|----------------------|--|
| RESPONSE | : Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting. Use only non-sparking tools. Avoid release to the environment. Wash thoroughly after handling. Wear protective gloves/eye protection/face protection. 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/shower. Gently wash with plenty of water and soap. If skin irritation occurs, seek medical advice/attention. Call a POISON CENTER or doctor if you feel unwell. In case of fire : Keep away from sources of ignition and use appropriate extinguishing media. Collect spillage. |
| STORAGE | : Store in a well-ventilated place. Keep container tightly closed. |
| DISPOSAL | : Passed to a licensed waste contractor. |
| SAFE HANDLING ADVICE | : Refer to SDS. |

[3.COMPOSITION / INFORMATION ON INGREDIENTS]

| | |
|-------------------------------------|-------------|
| SUBSTANCE OR MIXTURE | : Substance |
| INGREDIENTS AND CONCENTRATION RANGE | : 1-Octanal |
| CAS RN | : 124-13-0 |

[4.FIRST-AID MEASURES]

| | |
|-------------------------|---|
| IN CASE OF INHALATION | : Remove person to fresh air and keep comfortable for breathing. |
| IN CASE OF SKIN CONTACT | : Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Gently wash with plenty of soap and water. If skin irritation occurs, seek medical advice/attention. |
| IN CASE OF EYE CONTACT | : 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 INGESTION | : Call a POISON CENTER or doctor if you feel unwell. |

[5.FIRE-FIGHTING MEASURES]

| | |
|----------------------------------|--|
| EXTINGUISHING MEDIA | : Powder, alcohol-resistant foam, carbon dioxide, sand |
| NOT SUITABLE EXTINGUISHING MEDIA | : No information available |
| SPECIFIC HAZARDS | : No information available |
| SPECIFIC METHODS | : 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. |
| PROTECTION OF FIRE FIGHTERS | : Use goggles in combination with dust mask, and other protections as appropriate to situation. |

[6.ACCIDENTAL RELEASE MEASURES]

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|--|--|
| PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURE | : Use goggles and protective gloves. Large spills : Remove person to safety. Ensure adequate ventilation. |
| ENVIRONMENTAL PRECAUTIONS | : Avoid release to the environment. |
| METHODS FOR 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.

PREVENTION OF SECONDARY HAZARDS : Keep away from sources of ignition and prepare extinguishing media.

[7.HANDLING AND STORAGE]

HANDLING

TECHNICAL MEASURES : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

PRECAUTIONS : 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.

SAFE HANDLING ADVICE : Use an adequate ventilation.
Wash thoroughly after handling.
Use personal protective equipment as required.

STORAGE

SUITABLE STORAGE CONDITIONS : Store container tightly closed in well-ventilated place.
Keep away from source of ignition.
Do not store with oxidizing agents or alkalies.

SAFE PACKAGING MATERIALS : No information available

[8.EXPOSURE CONTROLS / PERSONAL PROTECTION]

ENGINEERING MEASURES : Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Use an adequate ventilation.

LIMIT VALUES

ACGIH (TLV) : Not established

OSHA (PEL) : Not established

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION : Use as appropriate to situation.

HAND PROTECTION : Rubber gloves

EYE PROTECTION : Safety glasses

SKIN AND BODY PROTECTION : Full-body suit

HYGIENE MEASURES : No information available

[9.PHYSICAL AND CHEMICAL PROPERTIES]

APPEARANCE

PHYSICAL STATE : Liquid

COLOUR : Colorless to light yellow clear

ODOUR : Characteristic odour

pH : No data available

SPECIFIC TEMPERATURES / TEMPERATURE RANGES AT WHICH CHANGES IN PHYSICAL STATE OCCUR

BOILING POINT : 163.4 °C (326.1 °F)

MELTING POINT : No information available

FLASH POINT : 58 °C (136.4 °F) (TAG closed cup method)

FLAMMABILITY OR EXPLOSIVE PROPERTIES

FLAMMABILITY OR EXPLOSIVE LIMITS : UPPER LIMIT : No information available LOWER LIMIT : No information available

VAPOUR PRESSURE : No information available

VAPOUR DENSITY : No information available

DENSITY (SPECIFIC GRAVITY) : 0.826 g/mL (20 °C) (68 °F)

SOLUBILITY

| | |
|--|----------------------------|
| WATER SOLUBILITY | : Poor |
| SOLVENT SOLUBILITY | : Soluble in ethyl alcohol |
| PARTITION COEFFICIENT: n-OCTANOL / WATER (log Pow) | : No information available |
| AUTO-IGNITION TEMPERATURE | : No information available |
| DECOMPOSITION TEMPERATURE | : No information available |
| ODOUR THRESHOLD | : No information available |
| EVAPORATION RATE | : No information available |
| FLAMMABILITY (SOLID,GAS) | : No information available |
| VISCOSITY | : No information available |
| OTHER DATA | : No information available |

[10.STABILITY AND REACTIVITY]

| | |
|------------------------------------|---|
| CHEMICAL STABILITY | : Stable in general. This product gradually oxidizes in air. |
| POSSIBILITY OF HAZARDOUS REACTIONS | : No information available |
| CONDITIONS TO AVOID | : Avoid contact with oxidizing agents or bases. |
| INCOMPATIBLE MATERIALS | : No information available |
| HAZARDOUS DECOMPOSITION PRODUCTS | : No information available |
| OTHERS | : May cause spontaneous combustion, when finely distributed. |

[11.TOXICOLOGICAL INFORMATION]

| | |
|---------------------------------------|------------------------------------|
| ACUTE TOXICITY | |
| Oral | |
| INFORMATION ON PRODUCT | : Rat, LD50 : 4617 mg/kg (88) |
| INFORMATION ON INGREDIENTS | : No information available |
| Dermal | |
| INFORMATION ON PRODUCT | : Rabbit, LD50 : 5207 mg/kg (88) |
| INFORMATION ON INGREDIENTS | : No information available |
| Inhalation | |
| INFORMATION ON PRODUCT | : No information available |
| INFORMATION ON INGREDIENTS | : No information available |
| SKIN CORROSION / IRRITATION | |
| INFORMATION ON PRODUCT | : No information available |
| INFORMATION ON INGREDIENTS | : 1-Octanal: Category 2; Ref.(84) |
| SERIOUS EYE DAMAGE / IRRITATION | |
| INFORMATION ON PRODUCT | : No information available |
| INFORMATION ON INGREDIENTS | : 1-Octanal: Category 2A; Ref.(84) |
| RESPIRATORY OR SKIN SENSITIZATION | |
| RESPIRATORY | |
| INFORMATION ON PRODUCT | : No information available |
| INFORMATION ON INGREDIENTS | : No information available |
| SKIN | |
| INFORMATION ON PRODUCT | : No information available |
| INFORMATION ON INGREDIENTS | : No information available |
| MUTAGENICITY (GERM CELL MUTAGENICITY) | |
| INFORMATION ON PRODUCT | : No information available |
| INFORMATION ON INGREDIENTS | : No information available |

CARCINOGENICITY

INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : No information available
 IARC : Not listed
 NTP : Not listed
 EU : Not listed
 OSHA : Not listed

REPRODUCTIVE TOXICITY

INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : No information available

SPECIFIC TARGET ORGAN TOXICITY

- SINGLE EXPOSURE

INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : No information available

- REPEATED EXPOSURE

INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : No information available

ASPIRATION HAZARD

INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : No information available

OTHER INFORMATION

: No information available

[12.ECOLOGICAL INFORMATION]

ECOTOXICITY : No information available
 PERSISTENCE / DEGRADABILITY : No information available
 MOBILITY IN SOIL : No information available
 BIOACCUMULATIVE POTENTIAL : No information available
 OTHER ADVERSE EFFECTS : No information available

[13.DISPOSAL CONSIDERATIONS]

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.

Dispose of waste in accordance with local, state and federal regulations.

[14.TRANSPORT INFORMATION]

Follow all regulations in your country or region

INTERNATIONAL REGULATIONS

| | | | |
|----------------------|---|------------------------|------------------|
| UN CLASS / UN NUMBER | : | Class 3 / UN1191 | |
| IATA | : | UN Number | UN1191 |
| | | Proper Shipping Name | Octyl Aldehydes |
| | | Class | 3 |
| | | Packing Group | III |
| IMDG | : | UN Number | UN1191 |
| | | Proper Shipping Name | Octyl Aldehydes |
| | | Class | 3 |
| | | Packing Group | III |
| | | Additional Information | Marine pollutant |

SPECIAL PRECAUTIONS FOR USER : Review "ACCIDENTAL RELEASE MEASURES (Section 6)".
Review "HANDLING AND STORAGE (Section 7)".
Ensure containers without breakage or leakage.
Ensure containers tightly fixed.
Follow all regulations in your country or region.
Keep away from source of ignition.
Emergency Response Guide(ERG) Numbers : 129

[15.REGULATORY INFORMATION]

Follow all regulations in your country or region.

| | | | |
|-------------|---|--------------------|-----------|
| INVENTORIES | : | ENCS(Japan) | 2-494 |
| | | TSCA(USA) | Yes |
| | | EINECS(EU) | 204-683-8 |
| | | AICS(Australia) | Yes |
| | | DSL(Canada) | Yes |
| | | ECL(Korea) | KE-26609 |
| | | PICCS(Philippines) | Yes |
| | | IECSC(China) | Yes |

KAO Corporation is not able to check up the regulatory information in regard to the substances in your country or region,therefore,we request this matter would be filled by your responsibility.

[16.OTHER INFORMATION]

REFERENCE : -Safety data sheet for chemical products - Part 1: Content and order of sections(ISO 11014-1)
-International Chemical Safety Cards(ICSC) (Compiler's Guide)(1994)
(84)IFRA-IOFI LABELING MANUAL
(88)ECHA's Database on Registered substances

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