

SAFETY DATA SHEET

1. Product and company identification

Name of chemical (Product name): LUNAC 10-98

Product No.: B0002430

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 |

Intended Use: Intermediates

Restrictions on use: Please refer to Sec.2, 4, 7, 8, 10 and 13.

Emergency telephone number: 81-3-5630-7700

2. Hazard(s) identification

GHS classification

Health Hazards

| | |
|-----------------------------------|------------|
| Skin Corrosion/Irritation | Category 2 |
| Serious Eye Damage/Eye Irritation | Category 1 |

Unknown toxicity - Health

| | |
|--|-------|
| Acute toxicity, inhalation, dust or mist | 100 % |
|--|-------|

Environmental Hazards

| | |
|--|------------|
| Acute hazards to the aquatic environment | Category 3 |
| Chronic hazards to the aquatic environment | Category 3 |

Unknown toxicity - Environment

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

Label Elements

Pictograms:



Signal Word:

Danger

Hazard Statement:

Causes skin irritation.
 Causes serious eye damage.
 Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

Avoid release to the environment. Wash thoroughly after handling. Wear protective gloves/ 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. Immediately call a POISON CENTER or doctor/ physician. 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.

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 name or generic name | CAS number | ISHL | ENCS | Content in percent (%) |
|-------------------------------|------------|---------|---------|------------------------|
| Capric acid | 334-48-5 | (2)-608 | (2)-608 | |

4. First-aid measures

Description of first aid measures

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. Immediately call a POISON CENTER/doctor.

Ingestion: Immediately call a POISON CENTER/doctor.

Personal Protection for First-aid Responders: No data available.

Most important symptoms and effects, both acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

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.

Special hazards arising from the substance or mixture: No data available.

Special protective equipment and precautions 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

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: Cool down to solid in case of melt (be careful of heat), and then sweep or vacuum spilled materials to drums or containers.

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

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|------------------------------------|---|
| Technical measures: | Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. |
| Local/Total ventilation: | Use an adequate ventilation. |
| Safe handling advice: | Keep away from source of ignition. Avoid contact with eyes. Use an adequate ventilation. Wash thoroughly after handling. Use personal protective equipment as required. Avoid contact with bases. |
| Contact avoidance measures: | No data available. |

Storage

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|----------------------------------|---|
| Safe storage conditions: | Keep container tightly closed. Store in a well-ventilated place. Keep away from source of ignition. Do not store with alkalies. |
| Safe packaging materials: | No data available. |

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Product: None known.

Individual protection measures, such as personal protective equipment

| | |
|----------------------------------|----------------------------------|
| Eye/face protection: | Safety goggles |
| Hand Protection: | Material: Rubber gloves |
| Skin and Body Protection: | Full-body suit |
| Respiratory Protection: | Use as appropriate to situation. |
| Hygiene measures: | No data available. |

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

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|------------------------|-----------------------------------|
| Physical state: | Solid |
| Form: | Solid(liquid in summer(over 20C)) |
| Color: | White |

| | |
|--|---|
| Odor: | Fatty acid odor |
| Odor Threshold: | No data available. |
| Melting Point: | <40 °C/104 °F |
| Boiling Point: | 268 °C/514 °F |
| 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: | 145 °C/293 °F (Cleveland open cup) |
| Auto-ignition temperature: | No data available. |
| 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: | Insoluble in water |
| Solubility (other): | Soluble in ethanol and ether Soluble in chloroform |
| Partition coefficient (n-octanol/water): | No data available. |
| Vapor pressure: | No data available. |
| Relative density: | No data available. |
| Density: | No data available. |
| Relative vapor density: | No data available. |
| Particle characteristics | |
| Particle Size: | No data available. |
| Particle Size Distribution: | No data available. |
| Other information | |
| Heat of combustion: | >= 34 kJ/g |

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| 10. Stability and reactivity |
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|--|--------------------|
| Reactivity: | No data available. |
| Chemical Stability: | No data available. |
| Possibility of hazardous reactions: | Reacts with base. |
| Conditions to avoid: | No data available. |

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

Inhalation Product: Dust and mist: 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:
 Capric acid Category 2: (87)

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

Components:
 Capric acid Category 2: (87)

Respiratory or Skin Sensitization Product: Skin: No data available.
 Not classified based on available data of component(s).
 Respiratory: Classification not possible due to insufficient data.

Carcinogenicity Product: Classification not possible due to insufficient data.

IARC:
 No carcinogenic components identified

ACGIH:
 No carcinogens present or none present in regulated quantities

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

Aspiration Hazard

Product: No data available.

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:

Capric acid Category 3: (88)

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Components:

Capric acid Category 3: (87)

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.

Contaminated Packaging: No data available.

14. Transport information

International regulations

IMDG
 Not Regulated.

IATA
 Not Regulated.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
 Not applicable for product as supplied.

National Regulations

Domestic Standard: In compliance with domestic law.

15. Regulatory information

Industrial Safety and Health Law

Chemical substances that cause skin disorders, etc.
 Decanoic acid

Specified Substances Regulation**Class 1 designated chemical substances:**

Not Regulated

Class 2 designated chemical substances:

Not Regulated

Class 3 designated chemical substances:

Not Regulated

Ordinance on Prevention of Lead Poisoning:

Not Regulated

Ordinance on Prevention of Tetraalkyl Lead Poisoning:

Not Regulated

Notifiable substances (wt% is sometimes described by range because it's CBI.):

Decanoic acid (From April 1st, 2025) 90 - 100%

Labeling substances:

Decanoic acid (From April 1st, 2025)

Confirmed mutagens among the notified chemical substances:

Not Regulated

Confirmed mutagens among the existing chemical substances:

Not Regulated

Confirmed carcinogenic chemical substances:

Not Regulated

Poisonous and Deleterious Substances Control Act

Not Regulated

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

Not Regulated

Act on Confirmation, etc. of Release Amounts of Specific Chemical Substances in the Environment and Promotion of Improvements to the Management Thereof

Not Regulated.

Fire Service Act:

Designated combustible materials: Combustible solids (3,000 kg)

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

Not Regulated

Air Law, Enforcement Rule:

Not Regulated

Explosives Control Act:

Not Regulated

High Pressure Gas Safety Act:
 Not Regulated

Act on Prevention of Marine Pollution and Maritime Disaster:
 Category: X

Export Trade Control Order:
 Not Regulated

Inventory Status:

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|---|--|
| US TSCA Inventory: | On or in compliance with the inventory |
| Canada DSL Inventory List: | On or in compliance with the inventory |
| Australia Industrial Chem. Act (AIIC): | 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.

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Version #: 3.0

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

- (1): GHS Classification Database, National Institute of Technology and Evaluation (NITE)
- (12): Results of Eco-toxicity tests of chemicals conducted by Ministry of the Environment in Japan
- (87): EU CLP Regulation Annex VI