

# SAFETY DATA SHEET

## 1. Product and company identification

Name of chemical (Product name): HOMOGENOL L-28E

Product No.: B0087162

### 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 2

#### Health Hazards

Skin Corrosion/Irritation Category 2  
 Serious Eye Damage/Eye Irritation Category 1  
 Toxic to reproduction Category 2  
 Specific Target Organ Toxicity - Single Exposure Category 1 (Central nervous system, systemic toxicity)  
 Specific Target Organ Toxicity - Single Exposure Category 3 (Respiratory tract irritation., Narcotic effect)  
 Specific Target Organ Toxicity - Repeated Exposure Category 1 (blood system)  
 Specific Target Organ Toxicity - Repeated Exposure Category 2 (Respiratory system, Liver, Spleen)

#### Unknown toxicity - Health

Acute toxicity, oral 19.4 %  
 Acute toxicity, dermal 30 %  
 Acute toxicity, inhalation, dust or mist 100 %

#### Environmental Hazards

Acute hazards to the aquatic environment Category 1

Chronic hazards to the aquatic environment                      Category 2

**Unknown toxicity - Environment**

Acute hazards to the aquatic environment                      19.4 %  
 Chronic hazards to the aquatic environment                      19.4 %

**Label Elements**

**Pictograms:**



**Signal Word:**                      Danger

**Hazard Statement:**                      Highly flammable liquid and vapor.  
 Causes skin irritation.  
 Causes serious eye damage.  
 Suspected of damaging fertility or the unborn child.  
 Causes damage to organs.  
 May cause respiratory irritation.  
 May cause drowsiness or dizziness.  
 Causes damage to organs through prolonged or repeated exposure.  
 Very toxic to aquatic life.  
 Toxic to aquatic life with long lasting effects.

**Precautionary Statements**

**Prevention:**                      Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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/lighting equipment. Use non-sparking tools. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**                      IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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 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. 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. Store locked up.

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

**3. Composition/information on ingredients**

**Mixtures**

**General information:** No data available.

Chemical name or generic name	CAS number	ISHL	ENCS	Content in percent (%)
Special polymer type surfactant	Trade Secret			
Imidazoline type surfactant	Trade Secret	Yes	Yes	
Isopropyl alcohol	67-63-0	Yes	Yes	35%
Ethyl acetate	141-78-6	Yes	Yes	35%

**4. First-aid measures**

**Description of necessary first-aid measures**

- Inhalation:** Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
- Skin Contact:** Rinse skin with water [or shower]. If skin irritation occurs, get medical advice/attention. Take off contaminated clothing and wash before re-use. Call a POISON CENTER/doctor if you feel unwell.
- 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.

**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:** Produce irritating or toxic gases in a fire.
- Special protective equipment and precautions for firefighters**

<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. Risk of producing harmful gases such as carbon monoxide and nitrogen oxides. Avoid inhalation of smoke or gases.

<b>6. Accidental release measures</b>
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<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

<b>7. Handling and storage</b>
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<b>Handling</b>	
<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 local exhaust ventilation. Use explosion-proof electrical equipment and prevent from static electrocity.
<b>Safe handling advice:</b>	Keep away from source of ignition. Avoid contact with eyes. Use an adequate ventilation. Wash thoroughly after handling. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using the product.
<b>Contact avoidance measures:</b>	No data available.
<b>Storage</b>	
<b>Safe storage conditions:</b>	Keep container tightly closed. Store in a well-ventilated place. Store locked up. Keep away from source of ignition.
<b>Safe packaging materials:</b>	No data available.

<b>8. Exposure controls/personal protection</b>
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**Control Parameters**  
**Occupational Exposure Limits**

Components	Type	Exposure Limit Values	Source
Isopropyl alcohol	CEILING	400 ppm 980 mg/m3	Japan. OELs - JSOH (Recommendation of Occupational Exposure Limits), as amended (04 2007)
Isopropyl alcohol	TLV	200 ppm	Japan. OELs - ISHL. (Workplace Environment Assessment Standards), as amended (08 2006)
Isopropyl alcohol	TWA	200 ppm	US. ACGIH Threshold Limit Values, as amended (2008)
Isopropyl alcohol	STEL	400 ppm	US. ACGIH Threshold Limit Values, as amended (2008)
Ethyl acetate	TWA	200 ppm 720 mg/m3	Japan. OELs - JSOH (Recommendation of Occupational Exposure Limits), as amended (04 2007)
Ethyl acetate	TLV	200 ppm	Japan. OELs - ISHL. (Workplace Environment Assessment Standards), as amended (08 2006)
Ethyl acetate	TWA	400 ppm	US. ACGIH Threshold Limit Values, as amended (2008)

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

<b>Eye/face protection:</b>	Safety glasses with side shield(Safety goggles or Face shield)
<b>Hand Protection:</b>	Material: Gloves (solvent-resistant)
<b>Skin and Body Protection:</b>	Solvent-resistant protective clothing
<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>	Viscous liquid
<b>Color:</b>	Yellow brown
<b>Odor:</b>	Solvent odor
<b>Odor Threshold:</b>	No data available.
<b>Freezing point:</b>	14 °F/-10 °C
<b>Boiling Point:</b>	> 104 °F/40 °C
<b>Flammability:</b>	No data available.

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

<b>Explosive limit - upper:</b>	No data available.
<b>Explosive limit - lower:</b>	No data available.
<b>Flash Point:</b>	48 °F/9 °C (Tag closed cup)
<b>Self Ignition Temperature:</b>	> 212 °F/100 °C
<b>Decomposition Temperature:</b>	1022 °F/550 °C
<b>pH:</b>	Not applicable

**Viscosity**

**Dynamic viscosity:** 6.1 mPa.s (50 °F/10 °C)  
 5.3 mPa.s (68 °F/20 °C)  
 4.3 mPa.s (86 °F/30 °C)

**Kinematic viscosity:** No data available.

**Flow Time:** No data available.

**Solubility(ies)**

**Solubility in Water:** Insoluble in water

**Solubility (other):** Soluble in aromatic solvents  
 Soluble in isopropyl alcohol  
 Insoluble in ethanol

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

**Vapor pressure:** No data available.

**Relative density:** No data available.

**Density:** 0.88 g/ml (50 °F/10 °C)  
 0.876 g/ml (68 °F/20 °C)  
 0.872 g/ml (86 °F/30 °C)

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

**Particle characteristics**

**Particle Size:** No data available.

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

**10. Stability and reactivity**

**Reactivity:** No data available.

**Chemical Stability:** Stable in general.

**Possibility of hazardous reactions:** Stable

**Conditions to avoid:** No data available.

**Incompatible Materials:** None.

**Hazardous Decomposition Products:** No special hazardous and harmful combustion or decomposition.

**11. Toxicological information**

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

**Oral**

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

**Dermal**

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

**Inhalation**

**Product:** ATEmix31.43 mg/l Vapour  
 Dusts, mists and fumes: Classification not possible due to insufficient data.

**Skin Corrosion/Irritation**

**Product:** No data available.

**Components:**

Imidazoline type surfactant Category 2: (99)

**Serious Eye Damage/Eye Irritation**

**Product:** No data available.

**Components:**

Imidazoline type surfactant Category 1: (88)  
 Isopropyl alcohol Category 2: (88)  
 Ethyl acetate Category 2B: (1)

**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:** No data available.





**Components:**

Imidazoline type surfactant Category 1: (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

**Further Information:** No data available.

**13. Disposal considerations**

**Disposal methods:** Review "HANDLING AND STORAGE (Section 7)". Passed to a licensed waste contractor. Incinerate with little portions. Risk of producing harmful gases such as carbon monoxide and nitrogen oxides. 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 1993
UN Proper Shipping Name:	FLAMMABLE LIQUID, N.O.S. (Isopropanol, Ethyl acetate)
Transport Hazard Class(es)	
Class:	3
Label(s):	3
EmS No.:	F-E, S-E
Packing Group:	II
Limited quantity	1.00L
Excepted quantity	E2
Environmentally Hazardous:	Yes
Marine Pollutant:	Yes

Special precautions for user: Not regulated.

**IATA**

UN Number:	UN 1993
UN Proper Shipping Name:	Flammable liquid, n.o.s. (Isopropanol, Ethyl acetate)
Transport Hazard Class(es):	
Class:	3
Label(s):	3
Packing Group:	II
Excepted quantity	E2
Environmentally Hazardous:	Yes
Marine Pollutant:	No
Special precautions for user:	Not regulated.
Other information	
Passenger and cargo aircraft:	Allowed. 353
Cargo aircraft only:	Allowed. 364

UN Proper Shipping Name (JP): その他の引火性液体 (他の危険性を有しないもの) (他に品名が明示されているものを除く。)(Isopropanol, Ethyl acetate)

**National Regulations**

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

**Emergency Response Guide Number:** 128

**15. Regulatory information**

**Law concerning Pollutant Release and Transfer Register**  
 Not Regulated

**Industrial Safety and Health Law**  
**Dangerous substances**  
 Flammable materials

**Organic Solvent Regulation**  
**Class 2 organic solvents:**  
 PROPYL ALCOHOL  
 ETHYL ACETATE

**Notifiable substances:**  
 PROPYL ALCOHOL 35%  
 ETHYL ACETATE 35%

**Labeling substances:**  
 PROPYL ALCOHOL  
 ETHYL ACETATE

**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 1 petroleum, Water insoluble liquid, Designated Quantity (200 litre)  
 II: Hazardous rank II

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

**Priority Assessment Chemical Substances (PACs):**

ISOPROPYL ALCOHOL

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

Flammable liquids

**Air Law, Enforcement Rule:**

Flammable liquids

**Act on Prevention of Marine Pollution and Maritime Disaster:**

Pack transport, Marine pollutant

**Export Trade Control Order:**

Not Regulated

**Inventory Status:**

US TSCA Inventory:	Not in compliance with the inventory
Canada DSL Inventory List:	Not in compliance with the inventory
Australia AICS:	Not in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	Not in compliance with the inventory
Japan (ENCS) List:	Not in compliance with the inventory
Japan ISHL Listing:	On or in compliance with the inventory
Philippines PICCS:	Not in compliance with the inventory
China Inv. Existing Chemical Substances:	Not in compliance with the inventory
REACH (EU):	Contact us for information
Taiwan Chemical Substance Inventory:	Not 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
- (1): GHS Classification Database, National Institute of Technology and Evaluation (NITE)
- (88): ECHA-REACH Registered Substances Database
- (99): Internal study data