

# SAFETY DATA SHEET

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

**GHS Product identifier:** HOMOGENOL L-18

**Other means of identification**

**SDS number:** B0003721

**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:**

**Physical Hazards**

Flammable liquids	Category 2
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**Health Hazards**

Acute toxicity (Inhalation - vapor)	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 1
Carcinogenicity	Category 2
Specific Target Organ Toxicity - Single Exposure	Category 3 (Respiratory tract irritation., Narcotic effect)
Specific Target Organ Toxicity - Repeated Exposure	Category 1 (Nervous System)

**Environmental Hazards**

Acute hazards to the aquatic environment	Category 1
Chronic hazards to the aquatic environment	Category 2

**Label Elements**

**Pictograms:**



**Signal Word:** Danger

**Hazard Statement:** Highly flammable liquid and vapor.  
 Harmful if inhaled.  
 Causes skin irritation.  
 Causes serious eye damage.  
 Suspected of causing cancer.  
 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. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. This product may be solidified totally or partially according to the storage condition. In that case, please warm-up for melting, then use at homogeneous liquid.

**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]. And wash it before reuse. If skin irritation occurs: Get medical advice/attention. Call a POISON CENTER or doctor/ physician if you feel unwell. IF exposed or concerned: 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.

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

**3. Composition/information on ingredients**

## Mixtures

Chemical Identity	Common name and synonyms	CAS number	Concentration*
Methyl isobutyl ketone	-	108-10-1	60%
Imidazoline type surfactant	-	Trade Secret	

## 4. First-aid measures

### Description of necessary first-aid measures

<b>Ingestion:</b>	Immediately call a POISON CENTER/doctor.
<b>Inhalation:</b>	Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
<b>Skin Contact:</b>	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. Call a POISON CENTER/doctor if you feel unwell.
<b>Eye contact:</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

## 5. Fire-fighting measures

### Suitable (and unsuitable) extinguishing media

<b>Suitable extinguishing media:</b>	Powder, alcohol-resistant foam, carbon dioxide, sand
<b>Unsuitable extinguishing media:</b>	No data available.
<b>Specific hazards arising from the chemical:</b>	Produce irritating or toxic gases in a fire.

### Special protective action for fire fighters

<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.

## 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.
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<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. Do not use tools producing sparks

<b>7. Handling and storage</b>
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<b>Precautions to ensure safe handling:</b>	Keep away from source of ignition. This product may be solidified totally or partially according to the storage condition. In that case, please warm-up for melting, then use at homogeneous liquid. 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>Conditions for safe storage, including any incompatibilities:</b>	Keep container tightly closed. Store in a well-ventilated place. Store locked up. Keep away from source of ignition.

<b>8. Exposure controls/personal protection</b>
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<b>Control Parameters</b>	
<b>Occupational Exposure Limits</b>	
<b>Product:</b>	None known.
<b>Appropriate Engineering Controls:</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.

**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>	Gloves (solvent-resistant)
<b>Other:</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.

<b>9. Physical and chemical properties</b>
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<b>Information on basic physical and chemical properties</b>	
<b>Appearance</b>	
<b>Physical state:</b>	Liquid

<b>Form:</b>	Liquid
<b>Color:</b>	Yellow-brown, clear
<b>Odor:</b>	Ketone-like odor
<b>Odor Threshold:</b>	No data available.
<b>Freezing point:</b>	< 68 °F/20 °C
<b>Boiling Point:</b>	244 °F/118 °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>	59 °F/15 °C (Tag closed cup)
<b>Self Ignition Temperature:</b>	No data available.
<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>	Insoluble in water
<b>Solubility (other):</b>	Soluble in aromatic solvents Insoluble in ethanol and ether
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Relative density:</b>	No data available.
<b>Density:</b>	0.86 g/ml (68 °F/20 °C)
<b>Relative vapor density:</b>	No data available.
<b>Particle characteristics</b>	
<b>Particle Size Distribution:</b>	No data available.

<b>10. Stability and reactivity</b>
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<b>Reactivity:</b>	No data available.
<b>Chemical Stability:</b>	No data available.
<b>Possibility of hazardous reactions:</b>	May form flammable gas or vapor. May form explosive gas/air mixtures.
<b>Conditions to avoid:</b>	No data available.
<b>Incompatible Materials:</b>	No data available.
<b>Hazardous Decomposition Products:</b>	No data available.

<b>11. Toxicological information</b>
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**Acute toxicity (list all possible routes of exposure)**

**Oral**

**Product:** LD 50 (Mouse): 5,195 mg/kg  
 Not classified based on available data.

**Dermal**

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

**Inhalation**

**Product:** ATEmix18.33 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)

**Respiratory or Skin Sensitization**

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

**Carcinogenicity**

**Product:** No data available.

**Components:**

Methyl isobutyl ketone      Category 2 (52)

**Germ Cell Mutagenicity**

**In vitro**

**Product:** Ames test (TA98, TA100): Negative  
 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:** No data available.

**Components:**

Methyl isobutyl ketone      Category 3: respiratory tract irritant, narcotic effect. (1)

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Components:**

Methyl isobutyl ketone Category 1: Nervous system: (1)

**Aspiration Hazard**

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

**Other effects:** No data available.

<b>12. Ecological information</b>
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**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:**

Imidazoline type surfactant 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:**

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.

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

**13. Disposal considerations**

**Disposal methods**

**Disposal instructions:** 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**

**IATA**

UN Number:	UN 1245
UN Proper Shipping Name:	Methyl isobutyl ketone
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

**IMDG**

UN Number:	UN 1245
UN Proper Shipping Name:	METHYL ISOBUTYL KETONE
Transport Hazard Class(es)	
Class:	3
Label(s):	3
EmS No.:	F-E, S-D
Packing Group:	II
Limited quantity	1.00L

Excepted quantity	E2
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**127



<b>15. Regulatory information</b>
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**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**

GAS SAMPLE, NON-PRESSURIZED, FLAMMABLE, N.O.S., NOT REFRIGERATED  
 LIQUID

**Inventory Status:**

US TSCA Inventory:	On or 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):	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):	Contact us for information
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory

<b>16. Other information, including date of preparation or last revision</b>
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**Issue Date:** 2021.09.03

**Version #:** 2.0

**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:**

- (1): GHS Classification Database, National Institute of Technology and Evaluation (NITE)
- (52): IARC Monographs
- (88): ECHA-REACH Registered Substances Database
- (99): Internal study data