

SAFETY DATA SHEET

1. Product and company identification

Name of chemical (Product name): HOMOGENOL L-18

Product No.: B0003721

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

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

GHS 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.

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. 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. Call a POISON CENTER or doctor/ physician if you feel unwell. 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. 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.

Unknown toxicity - Health
 Acute toxicity, dermal

40 %

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

Mixtures

General information: No data available.

Chemical name or generic name	CAS number	ISHL	ENCS	Content in percent (%)
Methyl isobutyl ketone	108-10-1	YES	YES	60%
Special polycarboxylate type polymer	Trade Secret			
Imidazoline type surfactant	Trade Secret	YES	YES	

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: 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.

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

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

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. Do not use tools producing sparks

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. Use local exhaust ventilation. Use explosion-proof electrical equipment and prevent from static electrocity.

Safe handling advice: 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.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Keep container tightly closed. Store in a well-ventilated place. Store locked up. Keep away from source of ignition.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Components	Type	Exposure Limit Values	Source
Methyl isobutyl ketone	TWA	50 ppm 200 mg/m3	Japan. OELs - JSOH (Recommendation of Occupational Exposure Limits), as amended (04 2007)
Methyl isobutyl ketone	TLV	20 ppm	Japan. OELs - ISHL. (Workplace Environment Assessment Standards), as amended (10 2013)
Methyl isobutyl ketone	STEL	75 ppm	US. ACGIH Threshold Limit Values, as amended (2008)
	TWA	20 ppm	US. ACGIH Threshold Limit Values, as amended (01 2010)

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety glasses with side shield(Safety goggles or Face shield)

Hand Protection: Material: Gloves (solvent-resistant)

Skin and Body Protection: Solvent-resistant protective clothing

Respiratory Protection: Use chemical cartridge respirator for organic solvents, as appropriate to situation.

Hygiene measures: No data available.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state: Liquid
Form: Liquid
Color: Yellow-brown, clear
Odor: Ketone-like odor
Odor Threshold: No data available.
Freezing point: < 68 °F/20 °C
Boiling Point: 244 °F/118 °C

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:	59 °F/15 °C (Tag closed cup)
Self Ignition Temperature:	> 212 °F/100 °C
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 aromatic solvents Insoluble in ethanol and ether
Partition coefficient (n-octanol/water):	No data available.
Vapor pressure:	No data available.
Relative density:	No data available.
Density:	0.86 g/ml (68 °F/20 °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:	No data available.
Possibility of hazardous reactions:	May form flammable gas or vapor. May form explosive gas/air mixtures.
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: 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)

IARC:

Methyl isobutyl ketone Group 2B. Possibly carcinogenic to humans.

NTP:

No carcinogenic components identified

JSOH:

No carcinogenic components identified

EU

No carcinogenic components identified

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.

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:

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.

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 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.

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

UN Proper Shipping Name (JP):	METHYL ISOBUTYL KETONE
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National Regulations

Domestic Standard: In compliance with domestic law.

Emergency Response Guide Number 127

15. Regulatory information

Industrial Safety and Health Law

Dangerous substances

Flammable materials

Specified Substances Regulation

Class 1 designated chemical substances:

Not Regulated

Class 2 designated chemical substances:

METHYL ISOBUTYL KETONE

Class 3 designated chemical substances:

Not Regulated

Organic Solvent Regulation

Class 2 organic solvents:

METHYL ISOBUTYL KETONE

Ordinance on Prevention of Lead Poisoning:

Not Regulated

Ordinance on Prevention of Tetraalkyl Lead Poisoning:

Not Regulated

Notifiable substances:

METHYL ISOBUTYL KETONE 60%

Labeling substances:

METHYL ISOBUTYL KETONE

Confirmed mutagens among the notified chemical substances:

Not Regulated

Confirmed mutagens among the existing chemical substances:

Not Regulated

Confirmed carcinogenic chemical substances:

METHYL ISOBUTYL KETONE

Poisonous and Deleterious Substances Control Act

Not Regulated

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

Class I specified chemical substances:

Not Regulated

Class II specified chemical substances:

Not Regulated

Monitoring chemical substances:

Not Regulated

Priority Assessment Chemical Substances (PACs):

METHYL ISOBUTYL KETONE

Law concerning Pollutant Release and Transfer Register

Not Regulated

Fire Service Act:

Group 4: Flammable liquids, Type 1 petroleums, Water insoluble liquid, Designated Quantity (200 litre)
 II: Hazardous rank II

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

Flammable liquids

Air Law, Enforcement Rule:

Flammable liquids

Explosives Control Act:

Not Regulated

High Pressure Gas Safety Act:

Not Regulated

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:	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

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)
- (52): IARC Monographs
- (88): ECHA-REACH Registered Substances Database
- (99): Internal study data