

SAFETY DATA SHEET

[1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : HOMOGENOL L-18
 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
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 RECOMMENDED USE :
 AND RESTRICTIONS ON USE :

[2.HAZARDS IDENTIFICATION]

GHS CLASSIFICATION

PHYSICAL AND CHEMICAL HAZARDS

FLAMMABLE LIQUIDS : Category 2

HEALTH HAZARDS

ACUTE TOXICITY (Oral) : Not classified

ACUTE TOXICITY (Dermal) : Not classified

ACUTE TOXICITY (Inhalation) : Category 4(Vapours)

SKIN CORROSION / IRRITATION : Category 2

SERIOUS EYE DAMAGE / EYE IRRITATION : Classification not possible

RESPIRATORY SENSITIZATION : Classification not possible

SKIN SENSITIZATION : Classification not possible

GERM CELL MUTAGENICITY : Classification not possible

CARCINOGENICITY : Category 2

REPRODUCTIVE TOXICITY : Classification not possible

SPECIFIC TARGET ORGAN TOXICITY

- SINGLE EXPOSURE : Category 3 (respiratory tract irritation, narcotic effects)

- REPEATED EXPOSURE : Category 1(nervous system)

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 : Danger

HAZARD STATEMENTS : Highly flammable liquid and vapour
 Harmful if inhaled
 Causes skin irritation
 Suspected of causing cancer
 May cause respiratory irritation; or May cause drowsiness or dizziness
 Causes damage to organs through prolonged or repeated exposure (nervous system)

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/sparks/open flames/hot surfaces. No smoking.
- Keep container tightly closed.
- Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting. Use only non-sparking tools.
- Do not breathe dust/fume/gas/mist/vapours/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. Call a POISON CENTER or doctor 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.
- 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.
- 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.

SAFE HANDLING ADVICE

- : 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.

[3.COMPOSITION / INFORMATION ON INGREDIENTS]

SUBSTANCE OR MIXTURE : Mixture

INGREDIENTS AND CONCENTRATION RANGE

Ingredients	Concentration Range(%)	CAS RN
Methyl isobutyl ketone	60	108-10-1
Special polycarboxylate type surfactant	Confidential	Confidential
Imidazoline type surfactant	Confidential	Confidential

[4.FIRST-AID MEASURES]

IN CASE OF INHALATION

- : Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention/advice if you feel unwell.
- IF exposed or concerned: Get medical attention/advice.

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.
- IF exposed or concerned: Get medical attention/advice.
- Get medical advice/attention if you feel unwell.

IN CASE OF EYE CONTACT

- : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF exposed or concerned: Get medical attention/advice.

Get medical advice/attention if you feel unwell.

IN CASE OF INGESTION

- : IF exposed or concerned: Get medical attention/advice.
Get medical advice/attention 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

- : Produce irritating or toxic gases in a fire.

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.

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 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.

Do not use tools producing sparks

[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.
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.

SAFE HANDLING ADVICE

- : Use an adequate ventilation.
Wash thoroughly after handling.
Use personal protective equipment as required.
Do not breathe dust/fume/gas/mist/vapours/spray.
Do not eat, drink or smoke when using this product.

STORAGE

SUITABLE STORAGE CONDITIONS

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

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

LIMIT VALUES

ACGIH (TLV)	: TWA 20 ppm, STEL 75 ppm Methyl isobutyl ketone
OSHA (PEL)	: PEL TWA 100ppm, TWA 410mg/m ³ , (2012 year edition) Methyl isobutyl ketone

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION	: Use chemical cartridge respirator for organic solvents, as appropriate to situation.
HAND PROTECTION	: Gloves (solvent-resistant)
EYE PROTECTION	: Safety glasses with side shield (Safety goggles or Face shield)
SKIN AND BODY PROTECTION	: Solvent-resistant protective clothing
HYGIENE MEASURES	: No information available

[9. PHYSICAL AND CHEMICAL PROPERTIES]

APPEARANCE

PHYSICAL STATE	: Liquid
COLOUR	: Yellow-brown clear
ODOUR	: Ketone-like odor
pH	: No data available

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

BOILING POINT	: 118 °C (244.4 °F)
MELTING POINT	: No information available
FLASH POINT	: 15 °C (59 °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)	: 0.86 g/mL (20 °C) (68 °F)
SOLUBILITY	
WATER SOLUBILITY	: Insoluble
SOLVENT SOLUBILITY	: Soluble in aromatic solvents. Insoluble in ethanol and ether.

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 : No information available

POSSIBILITY OF HAZARDOUS REACTIONS : May form flammable gas or vapor.

May form explosive gas/air mixtures.

CONDITIONS TO AVOID : No information available

INCOMPATIBLE MATERIALS : No information available

HAZARDOUS DECOMPOSITION PRODUCTS : No information available
OTHERS : No information available

[11.TOXICOLOGICAL INFORMATION]

ACUTE TOXICITY

Oral

INFORMATION ON PRODUCT : Mouse, LD50 : 5195 mg/kg

Dermal

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : No information available

Inhalation

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : Methyl isobutyl ketone: Category 4; Ref.(88)

SKIN CORROSION / IRRITATION

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : Imidazoline type surfactant: Category 2

SERIOUS EYE DAMAGE / IRRITATION

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : No information available

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 : Ames test (TA98, TA100) : Negative

INFORMATION ON INGREDIENTS : No information available

CARCINOGENICITY

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : Methyl isobutyl ketone: Category 2; Ref.(52)

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

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 : Methyl isobutyl ketone: Category 3 (respiratory tract irritation, narcotic effects); Ref.(1)

- REPEATED EXPOSURE

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : Methyl isobutyl ketone: Category 1 (nervous system); Ref.(1)

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.
 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.

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 / UN1245
IATA	:	UN Number UN1245
		Proper Shipping Name Methyl Isobutyl Ketone Solution
		Class 3
		Packing Group II
IMDG	:	UN Number UN1245
		Proper Shipping Name Methyl Isobutyl Ketone Solution
		Class 3
		Packing Group II
		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 : 127

[15.REGULATORY INFORMATION]

Follow all regulations in your country or region.

INVENTORIES	:	ENCS(Japan)	Yes
		TSCA(USA)	Yes
		EINECS(EU)	Yes
		AICS(Australia)	No
		DSL(Canada)	No
		ECL(Korea)	Yes
		PICCS(Philippines)	Yes

IECSC(China)	Yes
TCSI(Taiwan)	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)
(1)GHS Classification Database, National Institute of Technology and Evaluation (NITE)
(52)IARC Monographs
(88)ECHA-REACH Registered Substances Database

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