

SAFETY DATA SHEET

[1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : HOMOGENOL L-1820
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
E-MAIL ADDRESS : chemical@kao.co.jp
EMERGENCY TELEPHONE NUMBER : 81-3-5630-7700
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) : Not applicable(Vapours)

SKIN CORROSION / IRRITATION : Category 2

SERIOUS EYE DAMAGE / EYE IRRITATION : Category 1

RESPIRATORY SENSITIZATION : Classification not possible

SKIN SENSITIZATION : Classification not possible

GERM CELL MUTAGENICITY : Classification not possible

CARCINOGENICITY : Classification not possible

REPRODUCTIVE TOXICITY : Category 1A

SPECIFIC TARGET ORGAN TOXICITY

- SINGLE EXPOSURE : Category 1(central nervous system)

- REPEATED EXPOSURE : Category 1(central nervous system, kidney, liver)

ASPIRATION HAZARD : Classification not possible

ENVIRONMENTAL HAZARDS

HAZARDOUS TO THE AQUATIC ENVIRONMENT

- ACUTE HAZARD : Category 3

- 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
 Causes skin irritation
 Causes serious eye damage
 May damage fertility or the unborn child
 Causes damage to organs (central nervous system)
 Causes damage to organs through prolonged or repeated exposure (central nervous system, kidney, liver)

Harmful 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/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.
- 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 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.
- 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.
- 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 cool.
- Store locked up.

DISPOSAL

- : Passed to a licensed waste contractor.

SAFE HANDLING ADVICE

:

[3.COMPOSITION / INFORMATION ON INGREDIENTS]

SUBSTANCE OR MIXTURE : Mixture

INGREDIENTS AND CONCENTRATION RANGE

Ingredients	Concentration Range(%)	CAS RN
Toluene	80	108-88-3
Special polycarboxylate type polymer	11 - 20	Confidential
Imidazoline type surfactant	1 - 10	Confidential

[4.FIRST-AID MEASURES]

IN CASE OF INHALATION

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

IN CASE OF SKIN CONTACT

- : Take off immediately all contaminated clothing. Rinse skin with water/shower.
- IF exposed or concerned: Get medical attention/advice.
- Get medical advice/attention if you feel unwell.
- 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.

IN CASE OF 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 or doctor.

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.
- 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 sparkle.

[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.
Avoid contact with eyes.
- 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 -
Toluene
- OSHA (PEL) : PEL TWA 200ppm, TWA (Acceptable ceiling) 300ppm, TWA (Acceptable maximum peak) 8H/10M 500ppm, (2012 year edition)
Toluene
- PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION	: Use chemical cartridge respirator for organic solvents, as appropriate to situation.
HAND PROTECTION	: Gloves (solvent-resistant)
EYE PROTECTION	: 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	: Aromatic odour
pH	: Not applicable

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

BOILING POINT	: 110.6 °C (231.1 °F)
MELTING POINT	: No information available
FLASH POINT	: 5 °C (41 °F) (Setaflash Closed-cup Apparatus)

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)	: 0.885 g/mL (20 °C) (68 °F)
SOLUBILITY	
WATER SOLUBILITY	: Insoluble
SOLVENT SOLUBILITY	: Soluble in chloroform Soluble in ether. Partially soluble in ethanol Insoluble in acetone. Insoluble in ethyl acetate.

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	: 13 mPa.s (25 °C) (77 °F)
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 : No information available
 INFORMATION ON INGREDIENTS : No information available
 13% of the mixture consists of ingredients of unknown toxicity.

Dermal

INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : No information available
 13% of the mixture consists of ingredients of unknown toxicity.

Inhalation

INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : No information available

SKIN CORROSION / IRRITATION

INFORMATION ON PRODUCT : Rabbit, undiluted, 4 hours semi-occluded application test (OECD404) :
 Category 2
 INFORMATION ON INGREDIENTS : Toluene: Category 2; Ref.(1)
 Imidazoline type surfactant: Category 2

SERIOUS EYE DAMAGE / IRRITATION

INFORMATION ON PRODUCT : Rabbit, undiluted, OECD405 : Category 1
 INFORMATION ON INGREDIENTS : Toluene: Category 2B; Ref.(1)

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 : No information available
 IARC : Group 3: Not classifiable as to its carcinogenicity to humans.
 Toluene

NTP : Not listed

EU : Not listed

OSHA : Not listed

REPRODUCTIVE TOXICITY

INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : Toluene: Category 1A; Ref.(1)

SPECIFIC TARGET ORGAN TOXICITY

- SINGLE EXPOSURE

INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : Toluene: Category 1 (central nervous system); Ref.(1)

- REPEATED EXPOSURE

INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : Toluene: Category 1 (central nervous system, kidney, liver); Ref.(1)

ASPIRATION HAZARD

INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : Toluene: Category 1; Ref.(1)
 OTHER INFORMATION : No information available

[12.ECOLOGICAL INFORMATION]

ECOTOXICITY : Rainbow trout, 96h, LC50 : 18 mg/L
 PERSISTENCE / DEGRADABILITY : No information available
 MOBILITY IN SOIL : No information available
 BIOACCUMULATIVE POTENTIAL : No information available
 OTHER ADVERSE EFFECTS : BOD5:0.22g/g (JIS K0102)
 COD (Mn):0.31g/g (JIS K0102)

[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.

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 / UN1294
IATA	:	UN Number UN1294
		Proper Shipping Name Toluene Solution
		Class 3
		Packing Group II
IMDG	:	UN Number UN1294
		Proper Shipping Name Toluene 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 : 130

[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)

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.