

SAFETY DATA SHEET

[1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : MAGNOL
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 : Not classified

HEALTH HAZARDS

ACUTE TOXICITY (Oral) : Not classified
ACUTE TOXICITY (Dermal) : Not classified
ACUTE TOXICITY (Inhalation) : Not applicable(Vapours)
SKIN CORROSION / IRRITATION : Classification not possible
SERIOUS EYE DAMAGE / EYE IRRITATION : Category 2B
RESPIRATORY SENSITIZATION : Classification not possible
SKIN SENSITIZATION : Category 1
GERM CELL MUTAGENICITY : Classification not possible
CARCINOGENICITY : Classification not possible
REPRODUCTIVE TOXICITY : Classification not possible
SPECIFIC TARGET ORGAN TOXICITY
- SINGLE EXPOSURE : Classification not possible
- REPEATED EXPOSURE : Classification not possible
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 : Warning
HAZARD STATEMENTS : Causes eye irritation
May cause an allergic skin reaction
Toxic to aquatic life with long lasting effects

PRECAUTIONARY STATEMENTS

PREVENTION : Do not breathe dust/fume/gas/mist/vapours/spray.
Avoid release to the environment.
Contaminated work clothing should not be allowed out of the workplace.
Wash thoroughly after handling.

RESPONSE : Wear protective gloves.
 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 : If eye irritation persists: Get medical advice/attention.
 : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Gently wash with plenty of water and soap. If skin irritation or rash occurs, seek medical advice/attention.
 : Call a POISON CENTER or doctor if you feel unwell.
 : Collect spillage.

STORAGE :

DISPOSAL : Passed to a licensed waste contractor.

SAFE HANDLING ADVICE : Refer to SDS.

[3.COMPOSITION / INFORMATION ON INGREDIENTS]

SUBSTANCE OR MIXTURE : Mixture

INGREDIENTS AND CONCENTRATION RANGE

Ingredients	Concentration Range(%)	CAS RN
MAGNOL-R	50	224790-80-1
Triethyl citrate	50	77-93-0

[4.FIRST-AID MEASURES]

IN CASE OF INHALATION : Remove person to fresh air and keep comfortable for breathing.

IN CASE OF SKIN CONTACT : Gently wash with plenty of soap and water.
 : If skin irritation or rash occurs: Get medical advice/attention.
 : Take of contaminated clothing and wash before re-use.

IN CASE OF EYE CONTACT : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 : If eye irritation persists: Get medical advice/attention.

IN CASE OF INGESTION : Call a POISON CENTER or doctor 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 : No information available

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.

[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.

[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.
- 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.

STORAGE

- SUITABLE STORAGE CONDITIONS : Store container tightly closed in well-ventilated place.
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 an adequate ventilation.

LIMIT VALUES

- ACGIH (TLV) : Not established
- OSHA (PEL) : Not established

PERSONAL PROTECTIVE EQUIPMENT

- RESPIRATORY PROTECTION : Use as appropriate to situation.
- HAND PROTECTION : Rubber gloves
- EYE PROTECTION : Safety glasses
- SKIN AND BODY PROTECTION : Full-body suit
- HYGIENE MEASURES : No information available

[9.PHYSICAL AND CHEMICAL PROPERTIES]

APPEARANCE

- PHYSICAL STATE : Liquid
- COLOUR : Colorless clear
- ODOUR : Characteristic odour
- pH : No data available

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

- BOILING POINT : No information available
- MELTING POINT : No information available
- FLASH POINT : 166.0 °C (330.8 °F) (CLEVELAND open 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) : 1.085 g/mL (20.0 °C) (68 °F)
- SOLUBILITY
- WATER SOLUBILITY : Poor
- SOLVENT SOLUBILITY : Soluble in ethyl alcohol
- PARTITION COEFFICIENT: n-
OCTANOL / WATER (log Pow) : No information available
- AUTO-IGNITION TEMPERATURE : 265.0 °C (509 °F)

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 : Stable in general.
 POSSIBILITY OF HAZARDOUS REACTIONS : No information available
 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 : Rat, LD50 : 4.7 g/kg (Data on active ingredient)
 Rat, LD50 : 5900 mg/kg (Data on Triethyl citrate)(2)

INFORMATION ON INGREDIENTS : No information available

Dermal

INFORMATION ON PRODUCT : Rat, LD50 : > 2.0 g/kg (Data on active ingredient)
 Rabbit, LD50 : > 5.0 g/kg (Data on Triethyl citrate)(2)

INFORMATION ON INGREDIENTS : No information available

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) :
 Mild irritant (Data on active ingredient)

INFORMATION ON INGREDIENTS : No information available

SERIOUS EYE DAMAGE / IRRITATION

INFORMATION ON PRODUCT : Rabbit, undiluted, OECD405 : Mild irritant (Data on active ingredient)

INFORMATION ON INGREDIENTS : MAGNOL-R: Category 2B

RESPIRATORY OR SKIN SENSITIZATION

RESPIRATORY

INFORMATION ON PRODUCT : No information available

INFORMATION ON INGREDIENTS : No information available

SKIN

INFORMATION ON PRODUCT : Guinea pig, Buehler Test : Negative
 (Injection : 5%, challenge : 5, 3, 1%, in petrolatum)

Guinea pig, Buehler Test : Positive (Data on active ingredient)
 (Injection : undiluted, challenge : 30, 10, 5%, in petrolatum)

MUTAGENICITY (GERM CELL MUTAGENICITY)

INFORMATION ON PRODUCT : Ames test (TA98,TA100,TA1535,TA1537) :
 Negative (Data on active ingredient)
 Ames test (TA98,TA100,TA1535,TA1537,TA1538, WP2uvrA) :
 Negative (Data on active ingredient)

INFORMATION ON INGREDIENTS : No information available
 CARCINOGENICITY
 INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : No information available
 IARC : Not listed
 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 : No information available
 - REPEATED EXPOSURE
 INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : No information available

ASPIRATION HAZARD
 INFORMATION ON PRODUCT : No information available
 INFORMATION ON INGREDIENTS : No information available
 OTHER INFORMATION : No information available

[12.ECOLOGICAL INFORMATION]

ECOTOXICITY : Daphnia magna, 48h, EC50 : 1.5 mg/L (Data on active ingredient)
 Red killifish, 48h, LC50 : 1.95 mg/L (Data on active ingredient)
 ACUTE HAZARD : 50% of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment
 LONG-TERM HAZARD : 50% of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment
 PERSISTENCE / DEGRADABILITY : Modified MITI test I (OECD 301C) :
 % degradation by BOD : 0 % (14 days)
 % degradation by gas chromatography : 0 % (14 days)
 (Data on active ingredient)
 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.

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 9 / UN3082	
IATA	: UN Number	UN3082
	Proper Shipping Name	Environmentally Hazardous Substance, Liquid, n.o.s.(containing Magnol-R)
	Class	9

IMDG	Packing Group	III
	: UN Number	UN3082
	Proper Shipping Name	Environmentally Hazardous Substance, Liquid, n.o.s.(containing Magnol-R)
	Class	9
	Packing Group	III
SPECIAL PRECAUTIONS FOR USER	Additional Information	Marine pollutant
	: 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 : 171	

[15.REGULATORY INFORMATION]

Follow all regulations in your country or region.

INVENTORIES	: ENCS(Japan)	Yes
	TSCA(USA)	Yes
	EINECS(EU)	Reduced Notification
	AICS(Australia)	Yes
	DSL(Canada)	No(NDSL)
	ECL(Korea)	No
	PICCS(Philippines)	Yes
	IECSC(China)	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) (2)Registry of Toxic Effects of Chemical Substances
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