

SAFETY DATA SHEET

[1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : KALCOL 4250
 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
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 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 : Not classified
 SERIOUS EYE DAMAGE / EYE IRRITATION : Category 2A
 RESPIRATORY SENSITIZATION : Classification not possible
 SKIN SENSITIZATION : Not classified
 GERM CELL MUTAGENICITY : Not classified
 CARCINOGENICITY : Not classified
 REPRODUCTIVE TOXICITY : Not classified
 SPECIFIC TARGET ORGAN TOXICITY
 - SINGLE EXPOSURE : Classification not possible
 - REPEATED EXPOSURE : Not classified
 ASPIRATION HAZARD : Classification not possible

ENVIRONMENTAL HAZARDS

HAZARDOUS TO THE AQUATIC ENVIRONMENT

- ACUTE HAZARD : Category 1
 - LONG-TERM HAZARD : Category 1
 - HAZARDOUS TO THE OZONE LAYER : Classification not possible

GHS LABEL ELEMENTS

PICTOGRAMS OR SYMBOLS



SIGNAL WORD : Warning
 HAZARD STATEMENTS : Causes serious eye irritation
 Very toxic to aquatic life with long lasting effects
 PRECAUTIONARY STATEMENTS
 PREVENTION : Avoid release to the environment.
 Wash thoroughly after handling.
 Wear 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.

If eye irritation persists: Get medical advice/attention.
 IF ON SKIN: Gently wash with plenty of water and soap.
 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 : Substance
 INGREDIENTS AND CONCENTRATION RANGE : Alcohols, C12-16
 CAS RN : 68855-56-1

[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.
 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 : Cool down to solid in case of melt(be careful of heat),and then sweep or vacuum spilled materials to drums or containers.
 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.
 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 : Solid(liquid in summer(over 20C))

COLOUR : White

ODOUR : Slightly characteristic odour

pH : Not applicable

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

BOILING POINT : 263 - 320 °C (505.4 - 608 °F)

MELTING POINT : 26 - 29 °C (78.8 - 84.2 °F)

FLASH POINT : 150 °C (302 °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) : 0.81 g/mL (60 °C) (140 °F)

SOLUBILITY

WATER SOLUBILITY : Insoluble

SOLVENT SOLUBILITY : Soluble in general organic solvents

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 : 9 mPa.s (60 °C) (140 °F)

18.8 mPa.s (30 °C) (86 °F)

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 : > 8300 mg/kg (Data on Alcohols, C12-16) (3)

Dermal

INFORMATION ON PRODUCT : Rabbit, LD50 : 10200 mg/kg (Data on Alcohols, C12-16) (3)

Inhalation

INFORMATION ON PRODUCT : No information available

SKIN CORROSION / IRRITATION

INFORMATION ON PRODUCT : No information available

SERIOUS EYE DAMAGE / IRRITATION

INFORMATION ON PRODUCT : No information available

RESPIRATORY OR SKIN SENSITIZATION

RESPIRATORY

INFORMATION ON PRODUCT : No information available

SKIN

INFORMATION ON PRODUCT : Guinea pig, Guinea Pig Maximization Test :
Negative (Data on Alcohols, C12-16) (3)**MUTAGENICITY (GERM CELL MUTAGENICITY)**

INFORMATION ON PRODUCT : No information available

CARCINOGENICITY

INFORMATION ON PRODUCT : No information available

IARC : Not listed

NTP : Not listed

EU : Not listed

OSHA : Not listed

REPRODUCTIVE TOXICITY

INFORMATION ON PRODUCT : No information available

SPECIFIC TARGET ORGAN TOXICITY**- SINGLE EXPOSURE**

INFORMATION ON PRODUCT : No information available

- REPEATED EXPOSURE

INFORMATION ON PRODUCT : No information available

ASPIRATION HAZARD

INFORMATION ON PRODUCT : 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.

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 Dodecanol)
		Class	9
		Packing Group	III
IMDG	:	UN Number	UN3082
		Proper Shipping Name	Environmentally Hazardous Substance, Liquid, n.o.s.(containing Dodecanol)
		Class	9
		Packing Group	III
		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 : 171

[15.REGULATORY INFORMATION]

Follow all regulations in your country or region.

INVENTORIES	:	ENCS(Japan)	2-217
		TSCA(USA)	Yes
		EINECS(EU)	272-490-6
		AICS(Australia)	Yes
		DSL(Canada)	Yes
		ECL(Korea)	KE-00307
		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)
(3)IUCLID

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