

SAFETY DATA SHEET

[1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : KALCOL 4098
SUPPLIER : Fatty Chemical (Malaysia) Sdn. Bhd.
ADDRESS : Lorong Perusahaan Satu, Prai Industrial Complex, 13600 Prai, Penang,
MALAYSIA
DIVISION :
TELEPHONE NUMBER : 60-4-399-8500
FAX NUMBER : 60-4-399-8503
E-MAIL ADDRESS :
EMERGENCY TELEPHONE NUMBER : 60-4-399-8500
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 : Not classified
- 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	:	Myristyl alcohol
CAS RN	:	112-72-1

[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
- COLOUR : White
- ODOUR : Slightly characteristic odour
- pH : Not applicable

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

- BOILING POINT : 296 °C (564.8 °F)
- MELTING POINT : 37 - 40 °C (98.6 - 104 °F)
- FLASH POINT : 156 °C (312.8 °F) (CLEVELAND open cup method)

FLAMMABILITY OR EXPLOSIVE PROPERTIES

- FLAMMABILITY OR EXPLOSIVE LIMITS : UPPER LIMIT : 4.2 % LOWER LIMIT : 0.5 %
- VAPOUR PRESSURE : No information available
- VAPOUR DENSITY : No information available
- DENSITY (SPECIFIC GRAVITY) : 0.8224 g/mL (40 °C) (104 °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 : 16 mPa.s (40 °C) (104 °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 : > 2000 mg/kg (male, female)

Dermal

INFORMATION ON PRODUCT : No information available

Inhalation

INFORMATION ON PRODUCT : No information available

SKIN CORROSION / IRRITATION

INFORMATION ON PRODUCT : Rabbit, undiluted, 4 hours semi-occluded application test (OECD404) :
Not classified

SERIOUS EYE DAMAGE / IRRITATION

INFORMATION ON PRODUCT : Rabbit, undiluted, OECD405 : Category 2A

RESPIRATORY OR SKIN SENSITIZATION

RESPIRATORY

INFORMATION ON PRODUCT : No information available

SKIN

INFORMATION ON PRODUCT : Guinea pig, Guinea Pig Maximization Test : Negative

MUTAGENICITY (GERM CELL MUTAGENICITY)

INFORMATION ON PRODUCT : Ames test (TA98,TA100,TA1535,TA1537,TA1538) : Negative

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

: Rainbow trout, OECD203, 96h, LC50 : > 1 mg/L
(The highest attainable test concentration)

ACUTE HAZARD

: No information available

LONG-TERM HAZARD

: No information available

PERSISTENCE / DEGRADABILITY : Closed bottle test (BODIS-test) : 92 % (28 days) (3)
 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 / UN3077
IATA	:	UN Number UN3077
		Proper Shipping Name Environmentally Hazardous Substance, Solid, n.o.s.(Myristyl alcohol)
		Class 9
		Packing Group III
IMDG	:	UN Number UN3077
		Proper Shipping Name Environmentally Hazardous Substance, Solid, n.o.s.(Myristyl alcohol)
		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) 204-000-3
		AICS(Australia) Yes
		DSL(Canada) Yes
		ECL(Korea) KE-33362
		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)
 (3)IUCLID

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