

# MATERIAL SAFETY DATA SHEET

## [1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : MELUSAT  
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]

MOST IMPORTANT HAZARDS AND EFFECTS :

### GHS CLASSIFICATION

#### PHYSICAL AND CHEMICAL HAZARDS

FLAMMABLE LIQUIDS : Category 4

#### HEALTH HAZARDS

ACUTE TOXICITY (Oral) : Not classified  
ACUTE TOXICITY (Dermal) : Not classified  
ACUTE TOXICITY (Inhalation) : Classification not possible(Vapours)  
SKIN CORROSION / IRRITATION : Not classified  
SERIOUS EYE DAMAGE / EYE IRRITATION : Not classified  
RESPIRATORY SENSITIZATION : Classification not possible  
SKIN SENSITIZATION : Classification not possible  
GERM CELL MUTAGENICITY : Classification not possible  
CARCINOGENICITY : Classification not possible  
REPRODUCTIVE TOXICITY : Classification not possible  
SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY  
- SINGLE EXPOSURE : Classification not possible  
- REPEATED EXPOSURE : Classification not possible  
ASPIRATION HAZARD : Classification not possible

#### ENVIRONMENTAL HAZARDS

##### HAZARDOUS TO THE AQUATIC ENVIRONMENT

- ACUTE TOXICITY : Category 3  
- CHRONIC TOXICITY : Category 3

### GHS LABEL ELEMENTS

PICTOGRAMS OR SYMBOLS : Not applicable  
SIGNAL WORD : Warning  
HAZARD STATEMENTS : Combustible liquid  
Harmful to aquatic life  
Harmful to aquatic life with long lasting effects

### PRECAUTIONARY STATEMENTS

PREVENTION : Keep away from flames and hot surfaces.  
Avoid release to the environment.  
Wear protective gloves and eye/face protection as specified by the manufacturer/supplier or the competent authority.

RESPONSE	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Gently wash with plenty of soap and water. Call a POISON CENTER/doctor/physician if you feel unwell. In case of fire, keep away from sources of ignition and use appropriate extinguishing media.
STORAGE	: Store container tightly closed in well-ventilated place.
DISPOSAL	: Passed to a licensed waste contractor.
SAFE HANDLING ADVICE	: Refer to MSDS.

## [3.COMPOSITION / INFORMATION ON INGREDIENTS]

SUBSTANCE OR MIXTURE	: Substance
INGREDIENTS AND CONCENTRATION RANGE	: Ethyl 3,5,5-trimethyl hexanoate
CAS RN	: 67707-75-9

## [4.FIRST-AID MEASURES]

IN CASE OF INHALATION	: Remove to fresh air and keep at rest in a position 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.
IN CASE OF INGESTION	: Call a POISON CENTER or doctor/physician 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.
PROTECTION OF FIRE FIGHTERS	: Use goggles in combination with dust mask, and another 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.

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]****PHYSICAL STATES**

- FORM : Liquid
- COLOUR : Colorless clear
- ODOUR : Characteristic odour
- pH : Not applicable

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

- BOILING POINT : No information available
- MELTING POINT : No information available
- FLASH POINT : 73 °C ( 163.4 °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
- SPECIFIC GRAVITY (DENSITY) : 0.860 g/mL ( 25 °C) ( 77 °F)

**SOLUBILITY**

- WATER SOLUBILITY : Poor
- SOLVENT SOLUBILITY : Soluble in ethyl alcohol
- 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 : Stable in general.

POSSIBILITY OF HAZARDOUS REACTIONS : Stable in general.  
CONDITIONS TO AVOID : No information available  
INCOMPATIBLE MATERIALS : No information available  
HAZARDOUS DECOMPOSITION PRODUCTS : Carbon dioxide  
OTHERS : No information available

## [11.TOXICOLOGICAL INFORMATION]

## ACUTE TOXICITY

## Oral

INFORMATION ON PRODUCT : Rat, LD50 : &gt; 2000 mg/kg

## Dermal

INFORMATION ON PRODUCT : No information available

## Inhalation

INFORMATION ON PRODUCT : No information available

## SKIN CORROSION / IRRITATION

INFORMATION ON PRODUCT : Slightly hazardous in case of skin contact (irritant). (OECD404)

## SERIOUS EYE DAMAGE / IRRITATION

INFORMATION ON PRODUCT : Slightly hazardous in case of eye contact (irritant). (OECD405)

## RESPIRATORY OR SKIN SENSITIZATION

## RESPIRATORY

INFORMATION ON PRODUCT : No information available

## SKIN

INFORMATION ON PRODUCT : No information available

## MUTAGENICITY (GERM CELL MUTAGENICITY)

INFORMATION ON PRODUCT : Non-mutagenic

## 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 SYSTEMIC 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 : Brachydanio rerio (zebra-fish), 96h, LC50 : 10 - 100 mg/L

PERSISTENCE / DEGRADABILITY : Not readily biodegradable.

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 : Not applicable  
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.

## [15.REGULATORY INFORMATION]

Follow all regulations in your country or region.

INVENTORIES	:	ENCS(Japan)	2-782
		TSCA(USA)	Yes
		EINECS(EU)	266-959-4
		AICS(Australia)	Yes
		DSL(Canada)	Yes
		ECL(Korea)	KE-14077
		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)

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