

## SAFETY DATA SHEET

## [1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : MDJ  
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 : Not classified  
SERIOUS EYE DAMAGE / EYE IRRITATION : Not classified  
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 : Not classified  
- REPEATED EXPOSURE : Not classified  
ASPIRATION HAZARD : Classification not possible

## ENVIRONMENTAL HAZARDS

## HAZARDOUS TO THE AQUATIC ENVIRONMENT

- ACUTE HAZARD : Category 2  
- LONG-TERM HAZARD : Not classified  
- HAZARDOUS TO THE OZONE LAYER : Classification not possible

## GHS LABEL ELEMENTS

PICTOGRAMS OR SYMBOLS : Not applicable  
SIGNAL WORD : Not applicable  
HAZARD STATEMENTS : Toxic to aquatic life

## PRECAUTIONARY STATEMENTS

PREVENTION : Avoid release to the environment.  
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 water and soap.  
Call a POISON CENTER or doctor if you feel unwell.

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 : Methyl dihydrojasmonate  
 RANGE  
 CAS RN : 24851-98-7

[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.  
 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.  
 If needed, 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 : Liquid

COLOUR : Colorless to light yellow

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 : 156 °C ( 312.8 °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) : 1.002 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 : 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; 10000 mg/kg (83)

Dermal

INFORMATION ON PRODUCT : Rabbit, LD50 : &gt; 5000 mg/kg (83)

Inhalation

INFORMATION ON PRODUCT : No information available

## SKIN CORROSION / IRRITATION

INFORMATION ON PRODUCT : Human, 20% in petrolatum, 48 hour closed patch test :  
No reaction (77)

## SERIOUS EYE DAMAGE / IRRITATION

INFORMATION ON PRODUCT : Rabbit, undiluted, OECD405 : Not classified (83)

## RESPIRATORY OR SKIN SENSITIZATION

RESPIRATORY

INFORMATION ON PRODUCT : No information available

SKIN

INFORMATION ON PRODUCT : Human, Maximization test : Negative (77)  
Guinea pig, Buehler Test : Negative (77)

## MUTAGENICITY (GERM CELL MUTAGENICITY)

INFORMATION ON PRODUCT : Ames test (TA98,TA100,TA1535,TA1537,WP2uvrA-) : Negative (83)  
Micronucleus test : Negative (83)

## CARCINOGENICITY

INFORMATION ON PRODUCT : No information available

IARC : Not listed

NTP : Not listed

EU : Not listed

OSHA : Not listed

## REPRODUCTIVE TOXICITY

INFORMATION ON PRODUCT : Rat, oral, from gestation days 7 through days 20 : No developmental toxicity  
(83)

## SPECIFIC TARGET ORGAN TOXICITY

- SINGLE EXPOSURE

INFORMATION ON PRODUCT : No information available

- REPEATED EXPOSURE

INFORMATION ON PRODUCT : Rat, 90 days repeated dose oral toxicity test (OECD408) : NOEL = 100  
mg/kg/day (83)

## ASPIRATION HAZARD

INFORMATION ON PRODUCT : No information available

## OTHER INFORMATION

: No information available

## [12.ECOLOGICAL INFORMATION]

## ECOTOXICITY

: Red killifish, 96h, LC50 : 19 mg/L (83)  
Daphnia magna, 48h, EC50 : 8.25 mg/L (83)  
Algae, 72h, ErC50 : 45.9 mg/L (83)

## ACUTE HAZARD

: No information available

## LONG-TERM HAZARD

: No information available

## PERSISTENCE / DEGRADABILITY

: Modified MITI test I (OECD301C) :  
% biodegradation by BOD = 98 % (4 weeks) (4)

## 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 (IMDG, IATA)  
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)	3-3309
		TSCA(USA)	Yes
		EINECS(EU)	246-495-9
		AICS(Australia)	Yes
		DSL(Canada)	Yes
		ECL(Korea)	KE-27632
		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)  
(4)Biodegradation and Bioconcentration of the Existing Chemical Substances under the Chemical Substances Control Law  
(77)RIFM/FEMA FRAGRANCE and FLAVOR DATABASE  
(83)Japan challenge program

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