


MATERIAL SAFETY DATA SHEET

[1.PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME : ROMILAT
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]

MOST IMPORTANT HAZARDS AND EFFECTS : Flammable
GHS CLASSIFICATION
PHYSICAL AND CHEMICAL HAZARDS
FLAMMABLE LIQUIDS : Category 3
HEALTH HAZARDS
ACUTE TOXICITY (Oral) : Not classified
ACUTE TOXICITY (Dermal) : Not classified
ACUTE TOXICITY (Inhalation) : Classification not possible(Vapours)
SKIN CORROSION / IRRITATION : Category 2
SERIOUS EYE DAMAGE / EYE IRRITATION : Not classified
RESPIRATORY SENSITIZATION : Classification not possible
SKIN SENSITIZATION : Not classified
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 : Not classified
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 : 
SIGNAL WORD : Warning
HAZARD STATEMENTS : Flammable liquid and vapour
 Causes skin irritation
 Harmful to aquatic life
 Harmful to aquatic life with long lasting effects
PRECAUTIONARY STATEMENTS
PREVENTION : Keep away from ignition sources such as heat/sparks/open flame. - No smoking.

| | |
|----------------------|--|
| RESPONSE | : Keep container tightly closed. Take precautionary measures against static discharge. Use explosion-proof electrical/ventilating/lighting. Use only non-sparking tools. Avoid release to the environment. Wash thoroughly after handling. Wear protective gloves/eye protection/face protection. |
| | : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Gently wash with plenty of soap and water. If skin irritation occurs, seek medical advice/attention. 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]

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|-------------------------------------|---|
| SUBSTANCE OR MIXTURE | : Substance |
| INGREDIENTS AND CONCENTRATION RANGE | : Propanoic acid, 2,2-dimethyl-, 3-methyl-3-butenyl ester |
| CAS RN | : 104468-21-5 |

[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 | : Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Gently wash with plenty of soap and water. If skin irritation occurs, seek medical advice/attention. |
| 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 | : Do not spray cylindrical water. |
| 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 : 57 °C (134.6 °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
- DENSITY (SPECIFIC GRAVITY) : 0.868 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 : > 2000 mg/kg

Dermal

INFORMATION ON PRODUCT : Rat, LD50 : > 2000 mg/kg

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 : No information available

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 : Rat, 28 days repeated administration by gavage, 0, 50, 150, 450 mg/kg body weight : NOEL = 150 mg/kg (male, female)

ASPIRATION HAZARD

INFORMATION ON PRODUCT : No information available
OTHER INFORMATION : No information available

[12.ECOLOGICAL INFORMATION]

ECOTOXICITY : Daphnia magna, 48h, EC50 : 55 mg/L
Brachydanio rerio, 96h, LC50 : 548 mg/L
PERSISTENCE / DEGRADABILITY : OECD301D : 25-33%(28days)
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.

This material is containing flammable materials.
Be careful in case of incineration.

Remove the contents completely in case of disposal of the container.

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 3 / UN3272 | |
| IATA | : | UN Number | UN3272 |
| | | Proper Shipping Name | Esters, n.o.s.(Propanoic acid, 2,2-dimethyl-, 3-methyl-3-butenyl ester) |
| | | Class | 3 |
| | | Packing Group | III |
| IMDG | : | UN Number | UN3272 |
| | | Proper Shipping Name | Esters, n.o.s.(Propanoic acid, 2,2-dimethyl-, 3-methyl-3-butenyl ester) |
| | | Class | 3 |
| | | Packing Group | III |
| | | Additional Information | 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. Emergency Response Guide(ERG) Numbers : 128 | |

[15.REGULATORY INFORMATION]

Follow all regulations in your country or region.

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|-------------|---|--------------------|-----------|
| INVENTORIES | : | ENCS(Japan) | 2-760 |
| | | TSCA(USA) | Yes |
| | | EINECS(EU) | 415-610-6 |
| | | AICS(Australia) | Yes |
| | | DSL(Canada) | No(NDSL) |
| | | ECL(Korea) | No |
| | | PICCS(Philippines) | No |

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)
-The IFRA Standard

This fragrance compound is in accordance with the latest standard of IFRA within ordinary use. Contact with the manufacturer for detailed information.

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability (including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another, in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist.