

SAFETY DATA SHEET

1. Product and company identification

Name of chemical (Product name): EMASOL O-10V

Product No.: B0008042

Manufacturer/Importer/Distributor Information

Information on domestic manufacturer

Company Name: Kao Corporation
Address: 1-3,Bunka 2-chome,Sumida-ku,Tokyo 131-8501 Japan
Telephone: 81-3-5630-7700
Fax: 81-3-5630-7889
Division: Chemical Business
E-mail: chemical@kao.co.jp

Emergency telephone number: 81-3-5630-7700

2. Hazard(s) identification

GHS classification:

Not classified

GHS label elements

Pictograms: No symbol

Signal Word: No signal word.

Hazard Statement: Not applicable

Prevention: Wash thoroughly after handling. If needed, use personal protective equipment as required.

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: Wash with plenty of soap and water. Call a POISON CENTER/doctor if you feel unwell.

Storage: Store in a well-ventilated place.

Disposal: -

3. Composition/information on ingredients

Substances

General information: No hazardous ingredients.

| Chemical name or generic name | CAS number | ISHL | ENCS | Content in percent (%)* |
|-------------------------------|------------|------|------|-------------------------|
| Sorbitan monooleate | 1338-43-8 | Yes | Yes | |

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Description of necessary first-aid measures

Inhalation: Remove person to fresh air and keep comfortable for breathing.

Skin Contact: Gently wash with plenty of soap and water.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Ingestion: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Powder, alcohol-resistant foam, carbon dioxide, sand

Unsuitable extinguishing media: No data available.

Specific hazards arising from the chemical: No data available.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: Keep away from sources of ignition and use appropriate extinguishing media. Fight fire from upwind position if possible.

Special protective equipment for fire-fighters: Use goggles in combination with dust mask, and other protections as appropriate to situation.

6. Accidental release measures

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| Personal precautions, protective equipment and emergency procedures | Use goggles and protective gloves. Large spills : Remove person to safety. Ensure adequate ventilation. |
| Methods and material for containment and 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. |
| Environmental Precautions: | Do not discharge into the drains, surface waters or ground water directly. |
| Prevention of secondary hazards: | Keep away from sources of ignition and prepare extinguishing media. |

7. Handling and storage

Handling

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| Technical measures (e.g. Local and general ventilation): | Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use an adequate ventilation. |
| Safe handling advice: | Keep away from source of ignition. Use an adequate ventilation. Wash thoroughly after handling. If needed, use personal protective equipment as required. |
| Contact avoidance measures: | No data available. |
| Hygiene measures: | No data available. |

Storage

| | |
|----------------------------------|---|
| Safe storage conditions: | Keep away from source of ignition. Keep container tightly closed. Store in a well-ventilated place. |
| Safe packaging materials: | No data available. |
| Storage Temperature: | No data available. |

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None known.

Individual protection measures, such as personal protective equipment

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|-----------------------------|----------------|
| Eye/face protection: | Safety glasses |
|-----------------------------|----------------|

Hand Protection: Material: Rubber gloves

Skin and Body Protection: Full-body suit

Respiratory Protection: Use as appropriate to situation.

9. Physical and chemical properties

Appearance

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| Physical state: | liquid |
| Form: | liquid |
| Color: | Yellow brown |
| Odor: | Characteristic |
| Odor Threshold: | No data available. |
| pH: | 6 (1% suspension(IPA/Water=1/1)) |
| Freezing point: | 14 °F/-10 °C |
| Boiling Point: | No data available. |
| Flash Point: | 511 °F/266 °C (Cleveland open cup) |
| Evaporation Rate: | No data available. |
| Flammability: | No data available. |
| Explosive limit - upper: | No data available. |
| Explosive limit - lower: | No data available. |
| Vapor pressure: | No data available. |
| Relative vapor density: | No data available. |
| Density: | 0.984 g/ml (86 °F/30 °C) 0.977 g/ml (104 °F/40 °C) 0.969 g/ml (122 °F/50 °C) |
| Relative density: | No data available. |
| Solubility in Water: | Insoluble in water |
| Solubility (other): | Soluble in ethanol and insoluble in n-hexane Soluble in xylene |
| Partition coefficient (n-octanol/water): | No data available. |
| Self Ignition Temperature: | > 212 °F/100 °C |
| Decomposition Temperature: | No data available. |
| Kinematic viscosity: | No data available. |
| Dynamic viscosity: | 705 mPa.s (86 °F/30 °C) 385 mPa.s (104 °F/40 °C) 185 mPa.s (122 °F/50 °C) |

10. Stability and reactivity

Reactivity: No data available.

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| Chemical Stability: | Stable in general. |
| Possibility of hazardous reactions: | Has low reactivity. |
| Conditions to avoid: | No data available. |
| Incompatible Materials: | No data available. |
| Hazardous Decomposition Products: | No special hazardous and harmful combustion or decomposition. |

11. Toxicological information

Acute toxicity (list all possible routes of exposure)

Oral Product: No data available.
 Not classified based on available data of component(s).

Dermal Product: No data available.
 Not classified based on available data of component(s).

Inhalation Product: Dusts, mists and fumes: Classification not possible due to insufficient data.
 Vapour: No data available.
 Not classified based on available data of component(s).

Skin Corrosion/Irritation Product: No data available.
 Not classified based on available data of component(s).

Serious Eye Damage/Eye Irritation Product: No data available.
 Not classified based on available data of component(s).

Respiratory or Skin Sensitization Product: Skin: No data available.
 Not classified based on available data of component(s).
 Respiratory: Classification not possible due to insufficient data.

Carcinogenicity Product: Classification not possible due to insufficient data.

IARC:
 No carcinogenic components identified

ACGIH:
 No carcinogenic components identified

NTP:

No carcinogenic components identified

JSOH:

No carcinogenic components identified

EU

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product:

Classification not possible due to insufficient data.

In vivo

Product:

Classification not possible due to insufficient data.

Reproductive toxicity

Product:

No data available.
 Not classified based on available data of component(s).

Specific Target Organ Toxicity - Single Exposure

Product:

Classification not possible due to insufficient data.

Specific Target Organ Toxicity - Repeated Exposure

Product:

No data available.
 Not classified based on available data of component(s).

Aspiration Hazard

Product:

No data available.

Other effects:

No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment

Fish

Product:

No data available.
 Not classified based on available data of component(s).

Aquatic Invertebrates

Product:

No data available.
 Not classified based on available data of component(s).

Toxicity to Aquatic Plants

Product:

No data available.

Chronic hazards to the aquatic environment

Fish

Product:

No data available.
 Not classified based on available data of component(s).

Aquatic Invertebrates

Product: No data available.
 Not classified based on available data of component(s).

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in soil:

No data available.

Hazardous to the ozone layer:

No data available.
 Not classified based on available data of component(s). Not Regulated

Further Information:

No data available.

13. Disposal considerations

Disposal methods: Review "HANDLING AND STORAGE (Section 7)". Passed to a licensed waste contractor.

Contaminated Packaging: No data available.

14. Transport information

International regulations

IMDG

Not regulated.

IATA

Not regulated.

National Regulations

Domestic Standard: In compliance with domestic law.

15. Regulatory information

Industrial Safety and Health Law

Not Regulated

Poisonous and Deleterious Substances Control Act

Not Regulated

Act on the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.

Not Regulated

Law concerning Pollutant Release and Transfer Register

Not Regulated

Fire Service Act:

-: Designated Flammable Substances, Flammable liquid, Designated Quantity (2 cubic metre)

Ship Safety Law, Dangerous Goods Marine Transport and Storage Rule:

Not Regulated

Air Law, Enforcement Rule:

Not Regulated

Explosives Control Act:

Not Regulated

High Pressure Gas Safety Act:

Not Regulated

Export Trade Control Order

Not Regulated

Inventory Status:

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|--|--|
| US TSCA Inventory: | On or in compliance with the inventory |
| Canada DSL Inventory List: | On or in compliance with the inventory |
| Australia AICS: | On or in compliance with the inventory |
| Korea Existing Chemicals Inv. (KECI): | Contact us for information |
| Japan (ENCS) List: | On or in compliance with the inventory |
| Japan ISHL Listing: | On or in compliance with the inventory |
| Philippines PICCS: | On or in compliance with the inventory |
| China Inv. Existing Chemical Substances: | On or in compliance with the inventory |
| REACH (EU): | Registered |
| Taiwan Chemical Substance Inventory: | On or in compliance with the inventory |

16. Other Information

Disclaimer:

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. In the case of the product for fragrance, it's in accordance with the latest standard of IFRA within ordinary use. Contact with the supplier for detail information.

Reference:

- Hazard communication of chemicals based on GHS -- Labelling and Safety Data Sheet (SDS) (JIS Z 7253 : 2019)
- International Chemical Safety Cards (ICSC) (Compiler's Guide) (1994)
- GHS guideline -- Labelling and Safety Data Sheet (2019) Japan Chemical Industry Association