

Product name:
 RHEODOL TW-O120V

CHEMICAL PRODUCT SAFETY DATA SHEET

Prepared in accordance with GB/T 16483 and GB/T 17519.

1. Identification of the substance or mixture and of the supplier

Product name:
 RHEODOL TW-O120V

Product No.: B0008750

Recommended use and restriction on use

Recommended use: Polyoxyethylene(20) sorbitan monooleate.
Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

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 |
| Contact division: | Chemical Business |
| E-mail: | chemical@kao.co.jp |

Emergency telephone number: 81-3-5630-7700

2. Hazard(s) identification

Emergency Overview: Yellow Viscous liquid. Odor: Characteristic. Hazard statements: Causes serious eye damage. Harmful to aquatic life with long lasting effects. Notes to physician: Get medical attention if symptoms occur.

GHS classification

Health Hazards

| | |
|-----------------------------------|------------|
| Serious Eye Damage/Eye Irritation | Category 1 |
|-----------------------------------|------------|

Unknown toxicity - Health

| | |
|------------------------------------------|--------|
| Acute toxicity, inhalation, dust or mist | 97.3 % |
|------------------------------------------|--------|

Environmental Hazards

| | |
|------------------------------------------|------------|
| Acute hazards to the aquatic environment | Category 3 |
|------------------------------------------|------------|

| | |
|--------------------------------------------|------------|
| Chronic hazards to the aquatic environment | Category 3 |
|--------------------------------------------|------------|

Unknown toxicity - Environment

| | |
|------------------------------------------|-----|
| Acute hazards to the aquatic environment | 0 % |
|------------------------------------------|-----|

Product name:
 RHEODOL TW-O120V

Chronic hazards to the aquatic environment 0 %

Label Elements

Pictograms:



Signal Word: Danger

Hazard Statement: Causes serious eye damage.
 Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention: Avoid release to the environment. 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. Immediately call a POISON CENTER or doctor/physician. IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER/doctor if you feel unwell.

Storage: -

Disposal: Passed to a licensed waste contractor.

Other hazards which do not result in GHS classification: None.

3. Composition/information on ingredients

Substances

| Chemical Identity | Common name and synonyms | CAS number | Content in percent (%) |
|-----------------------------------------|--------------------------|------------|------------------------|
| Polyoxyethylene(20) sorbitan monooleate | - | 9005-65-6 | 97% |

4. First-aid measures

Description of 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.

Product name:
 RHEODOL TW-O120V

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

Personal Protection for First-aid Responders: No data available.

Most important symptoms and effects, both acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

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

Unsuitable extinguishing media: No data available.

Special hazards arising from the substance or mixture: No data available.

Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures: 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.

Special protective equipment for 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 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: Avoid release to the environment.

Prevention of secondary hazards: Keep away from sources of ignition and prepare extinguishing media.

Product name:
 RHEODOL TW-O120V

7. Handling and storage

Handling

| | |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Technical measures: | Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. |
| Local/Total ventilation: | Use an adequate ventilation. |
| Safe handling advice: | Keep away from source of ignition. Avoid contact with eyes. Use an adequate ventilation. Wash thoroughly after handling. Use personal protective equipment as required. |
| Contact avoidance measures: | No data available. |

Storage

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

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

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| Appropriate Engineering Controls: | Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use an adequate ventilation. |
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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. |
| Hygiene measures: | No data available. |

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Product name:
 RHEODOL TW-O120V

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|--------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Form: | Viscous liquid |
| Color: | Yellow |
| Odor: | Characteristic |
| Odor Threshold: | No data available. |
| Freezing point: | -25 - -23 °C/-13 - -9 °F |
| Boiling Point: | > 40 °C/104 °F |
| Flammability: | No data available. |
| Upper/lower limit on flammability or explosive limits | |
| Explosive limit - upper: | No data available. |
| Explosive limit - lower: | No data available. |
| Flash Point: | 295 °C/563 °F (Cleveland open cup) |
| Auto-ignition temperature: | > 100 °C/212 °F |
| Decomposition Temperature: | No data available. |
| pH: | 6.8(5% solution) |
| Viscosity | |
| Dynamic viscosity: | 570 mPa.s at 20 °C/68 °F 315 mPa.s at 30 °C/86 °F 190 mPa.s at 40 °C/104 °F |
| Kinematic viscosity: | No data available. |
| Flow Time: | No data available. |
| Solubility(ies) | |
| Solubility in Water: | Soluble(10%, 25C) |
| Solubility (other): | Soluble in ethanol and insoluble in n-hexane Poorly soluble in xylene |
| Partition coefficient (n-octanol/water): | No data available. |
| Vapor pressure: | No data available. |
| Relative density: | No data available. |
| Density: | 1.08 g/ml at 20 °C/68 °F 1.072 g/ml at 30 °C/86 °F 1.064 g/ml at 40 °C/104 °F |
| Relative vapor density: | No data available. |
| Particle characteristics | |
| Particle Size: | No data available. |
| Particle Size Distribution: | No data available. |

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| 10. Stability and reactivity |
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| Reactivity: | No data available. |
| Chemical Stability: | Stable in general. |

Product name:
 RHEODOL TW-O120V

Possibility of hazardous reactions: Has low reactivity. Has no self-reactivity.

Conditions to avoid: No data available.

Incompatible Materials: No data available.

Hazardous Decomposition Products: No data available.

11. Toxicological information

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50 (Mouse): > 15 g/kg (Data on equivalent product)
 Not classified based on available data.

Dermal

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

Inhalation

Product: Dust and mist: Classification not possible due to insufficient data.
 Vapour: No data available.
 Not classified based on available data of component(s).

Skin Corrosion/Irritation

Product: repeated application test Rabbit, 24 h: Non irritant undiluted, (Data on equivalent product)
 Not classified based on available data.

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

Polyoxyethylene(20) sorbitan monooleate Category 1: (98)

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

Product name:
 RHEODOL TW-O120V

Germ Cell Mutagenicity

In vitro

Product: Ames test (TA98, TA100, TA1535, TA1537, WP2uvrA): Negative (Data on equivalent product)
 Not classified based on available data.

In vivo

Product: Not classified based on available 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.

Aquatic Invertebrates

Product: EC 50 (Daphnia, 48 h): > 100 mg/l (Data on equivalent product)

Toxicity to Aquatic Plants

Product: ErC50 (Alga, 72 h): > 75.8 mg/l (Data on equivalent product)

Components:

Polyoxyethylene(20) sorbitan monooleate Category 3: (98)

Chronic hazards to the aquatic environment

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Product name:
RHEODOL TW-O120V

Components:
Polyoxyethylene(20) Category 3: (98)
sorbitan monooleate

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.

Other adverse effects: 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

IMDG
Not Regulated.

IATA
Not Regulated.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

National Regulations

Domestic Standard: In compliance with domestic law.

15. National and international regulatory information

Should comply with local regulations in respect of this product.
China. Catalog of Hazardous Chemicals
Not Regulated

Product name:
 RHEODOL TW-O120V

China. Precursor Chemicals (Decree No. 445 of the PRC on Regulation for Administration of Precursor Chemicals, Appendix: Categories 1-3)
 Not Regulated

China: CWC. Controlled Chemicals List (Regulations on the Administration of Controlled Chemicals, Decree No. 190, Dec. 27, 1995, as amended)
 Not Regulated

China. Explosive Precursor Hazardous Chemicals (Ministry of Public Safety, 2011 version)
 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 |

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| 16. Other Information |
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| Version #: | 1.0 |
| Revision Date: | 18.12.2023 |
| Issue Date: | 18.12.2023 |
| Further Information: | No data available. |
| Revision Information | Not relevant. |
| Training information | No data available. |

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RHEODOL TW-O120V

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:

(98): CESIO RECOMMENDATIONS for the harmonized classification and labelling of surfactants (May 2021)