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Code : S026086

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

| | |
|---|---|
| Product Name | : NIKKOL TL-10F |
| Company | : NIHON SURFACTANT KOGYO K.K. |
| Address | : 7-14 Hiraide Kogyo Danchi Utsunomiya, Tochigi 321-0905, JAPAN |
| Division | : QUALITY ASSURANCE |
| Tel. No. | : 028-661-6121 |
| Fax No. | : 028-663-0426 |
| E-Mail address | : info-msds@nikkol.co.jp |
| Emergency tel. No. | : NIKKO CHEMICALS CO., LTD. +81-3-3661-1677 |
| Recommended use and restrictions on use | : : |

2. HAZARDS IDENTIFICATION

| | |
|---|-------------------------------|
| Most Important Hazards and Effects | : |
| GHS Classification | : |
| Physical and Chemical Hazards | : Not classified |
| Health Hazards | : |
| Acute Toxicity (Oral) | : Not classified |
| Acute Toxicity (Dermal) | : Classification not possible |
| Acute Toxicity (Inhalation : gases) | : Not applicable |
| Acute Toxicity (Inhalation : vapors) | : Classification not possible |
| Acute Toxicity (Inhalation : dust, mists) | : Classification not possible |
| Skin Corrosion / Irritation | : Not classified |
| Serious Eye Damage / Eye Irritation | : Classification not possible |
| 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 |
| Specific Target Organ Systemic Toxicity (Repeated Exposure) | : Classification not possible |
| Aspiration Hazard | : Classification not possible |
| Environmental Hazards | : |
| Hazardous to The Aquatic Environment - Acute Toxicity | : Classification not possible |
| Hazardous to The Aquatic Environment - Chronic Toxicity | : Classification not possible |
| Hazardous to The Ozone Layer | : Classification not possible |
| GHS Label Elements | : |
| Pictograms or Symbols | : |

| | |
|-------------|---|
| Signal Word | : |
|-------------|---|

| | |
|-------------------|------------------|
| Hazard Statements | : Not classified |
|-------------------|------------------|

| | |
|--------------------------|--|
| Precautionary Statements | : |
| 【Prevention】 | : Wash thoroughly after handling. |
| 【Response】 | : IF SWALLOWED: Call a doctor/physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| 【Storage】 | : Store in a closed container. |
| 【Disposal】 | : Dispose of contents/container in accordance with local/regional/national/international regulation(to be specified). |
| 【Safe Handling Advice】 | : Refer to SDS |

3. COMPOSITION / INFORMATION ON INGREDIENTS

| | | | |
|-------------------------------------|-------------------|-----------|--|
| Substance or Mixture | : Substance | | |
| Ingredients and Concentration Range | : | | |
| Ingredient (INCI Name) | concentration (%) | CAS No. | |
| POE(20) Sorbitan Monolaurate | 100 | 9005-64-5 | |
| (Polysorbate 20) | | | |

4. FIRST-AID MEASURES

| | |
|-------------------------|--|
| In Case of Inhalation | : Take victim to a place of fresh air and keep at rest in a position comfortable for breathing. |
| In Case of Skin Contact | : Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. |
| In Case of Eye Contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention if eye irritation persists: |
| In Case of Ingestion | : Rinse mouth with water, and provide 1-2 cups of water or milk to drink. Get immediate medical advice/attention. In the event that the victim is not conscious, do not feed anything through the mouth. |

5. FIRE-FIGHTING MEASURES

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|----------------------------------|---|
| Extinguishing Media | : Powder, alcohol-resistant form, carbon dioxide, sand, water spray. |
| Not Suitable Extinguishing Media | : No information available |
| Special Hazards | : During a fire, toxic gases (e.g., carbon monoxide, nitrogen oxide etc) may be generated. Avoid inhaling smoke during fire extinguishing. Remove all combustible objects away from the fire and use adequate extinguishing media. Preferably extinguish the fire from the same direction of the wind. Evacuate personnel not involved in fire extinguishing to safe area. Equipment and machinery in proximity of fire must be sprayed with water to cool. Water used to extinguish a fire should not be allowed to enter the drainage system or water courses. |
| Special Methods | |
| Protection of Fire Fighters | : Use goggles in combination with dust mask. During a fire, toxic gases (e.g., carbon monoxide, nitrogen oxide etc) may be generated. Avoid inhaling smoke during fire extinguishing. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|---------------------------------|--|
| Special Methods | : Use goggles and protective gloves. In case of large spills, remove person to safety. Ensure adequate ventilation. |
| Environmental Precautions | : Do not discharge into river or sewer. In case of a small spill, absorb with liquid-binding material (sand, soil, cloth) and wipe away the remains with cloth or fabric. Flush surroundings with large amounts of water. In case of a large spill, surround it with the mound of sand or soil to prevent elution and collect into drums or other containers. |
| Methods for Cleaning Up | |
| Prevention of Secondary Hazards | : Promptly remove all combustible objects away from the spill and prepare fire extinguishing media. The spills on the floor must be cleaned promptly, otherwise they present a risk of traumatic accident. Avoid walking or stepping on the spills. While cleaning the spill use adequate tools that do not promote sparks of fire. |

7. HANDLING AND STORAGE

| | |
|-----------------------------|--|
| Handling | |
| Technical Measures | : The shower with water (for washing of eyes and body) must be installed near the handling facility. |
| Precautions | : Keep away from source of ignition. |
| Safe Handling Advice | : Use adequate ventilation. Use goggles and protective gloves. Wash thoroughly after handling. |
| Storage | |
| Suitable Storage Conditions | : Store in a well-ventilated place. Keep cool. |
| Safe Packaging Materials | : No information available |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|--------------------------|--|
| Engineering Measures | : Exhaust system must be installed in case steam, fume or mist is generated at the operation facility. Shower with water (for washing eyes and body) must be installed near the handling facility. |
| Limit Values | : Not established (2008Y) |
| Protective Equipment | |
| Respiratory Protection | : Not needed in case of standard handling. |
| Hand Protection | : Impermeable protective gloves. |
| Eye Protection | : Goggles or protective glasses with side protectors. |
| Skin and Body Protection | : Workwear with long sleeves. |
| Hygiene Measures | : No information available |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|--------------------|--|
| Physical States | | |
| Form | : | Liquid |
| Color | : | Pale yellow to yellow |
| Odor | : | Faint characteristic odor |
| pH | : | No data |
| Specific Temperatures / temperature Ranges at which Changes in Physical State Occur | | |
| Boiling Point | : | No data |
| Melting Point (Congealing point) | : | No data |
| Flash Point | : | 272° C |
| Flammability or Explosive Properties | : | |
| Flammability or Explosive Limits | : | Upper Limit : no data Lower Limit : no data |
| Vapour Pressure | : | No data |
| Vapour Density | : | No data |
| Specific Gravity | : | No data |
| Solubility | Water Solubility | : Soluble |
| | Solvent Solubility | : No data |
| Partition Coefficient : | : | No data |
| | | |
| Auto-Ignition Temperature | : | No data |
| Decomposition Temperature | : | No data |
| Odor Threshold | : | No data |
| Evaporation Rate | : | No data |
| Flammability (solid, gas) | : | No data |
| Other Data | : | |

10. STABILITY AND REACTIVITY

| | | |
|------------------------------------|---|------------------------------------|
| Chemical Stability | : | Stable in general. |
| Possibility of Hazardous Reactions | : | Stable in general. |
| Condition to Avoid | : | No information available |
| Incompatible Materials | : | No information available |
| Hazardous Decomposition Products | : | Carbon monoxide, Nitrogen compound |
| Others | : | |

11. TOXICOLOGICAL INFORMATION

| | | |
|---|---|--|
| Acute Toxicity (oral) | : | LD50、Rat、20ml／kg< |
| Acute Toxicity (dermal) | : | No data |
| Acute Toxicity (Inhalation : gases) | : | No data |
| Acute Toxicity (Inhalation : vapors) | : | No data |
| Acute Toxicity (Inhalation : dust, mists) | : | No data |
| Skin Corrosion / Irritation | : | Human, 50 people, 100%, closed patch, 72hr No irritation |
| Serious Eye Damage / Irritation | : | No data |
| Respiratory or Skin Sensitization | : | No data |
| Mutagenicity (germ cell mutagenicity) | : | No data |
| Carcinogenicity | : | No data |
| | | |
| IARC | : | Not available |
| | | |
| NTP | : | Not available |
| Reproductive Toxicity | : | No information available |
| | | |
| Special Methods | : | No information available |
| | | |
| Special Methods | : | No information available |
| | | |
| Aspiration Hazard | : | No information available |

12. ECOLOGICAL INFORMATION

| | | |
|------------------------------|---|--------------------------|
| Ecotoxicity | : | No data |
| Persistence / Degradability | : | No information available |
| Bioaccumulative Potential | : | No information available |
| Mobility in Soil | : | No information available |
| Hazardous to The Ozone Layer | : | No information available |

13. DISPOSAL CINSIDERATIONS

14. TRANSPORT INFORMATION

| | |
|------------------------------|--|
| UN Class / UN Number : | Not applicable |
| | |
| Special Precautions for User | Review “Section 7 : “Handling and Storage”. Ensure containers without breakage or leakage. Ensure containers tightly fixed. Follow all regulations in your country or region. |

15. REGULATORY INFORMATION

| | |
|-----------------|------------|
| Inventories : | |
| ENCS(Japan) | : 8-55 |
| TSCA(USA) | : Yes |
| EINECS(EU) | : polymer |
| AICS(Australia) | : None |
| DSL(Canada) | : Yes |
| ECL(Korea) | : KE-31681 |
| IECSC(China) | : Yes |

16. OTHER INFORMATION

| | |
|-----------|--|
| Reference | International Chemical Safety Cards (ICSC)Compiler's Guide Cosmetics Handbook NIKKOL CHEMICALS CO.,LTD.(2008) |
|-----------|--|

The information described herein is based on the documents, information and data, etc. on this product that are currently available to us, but the values, such as contents of ingredients, physical and chemical properties, are not necessarily identical to those in the specification. In addition, the precautions are intended for the cases where this product is handled and used under normal conditions. Thus, in cases of special uses or handling, users should use and handle it, taking appropriate safety measures in accordance with the intended uses and how to use the product.