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SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

| | |
|---|---|
| Product Name | : NIKKOL BS-4 |
| Company | : NIPPON SURFACTANT INDUSTRIES CO., LTD. |
| Address | : 7-14 Hiraide Kogyo Danchi Utsunomiya, Tochigi 321-0905, JAPAN |
| Division | : Technical Division |
| Tel. No. | : 028-661-6121 |
| Fax No. | : 028-663-0426 |
| E-Mail address | : info-sds@nikkolgroup.com |
| Emergency tel. No. | : NIKKO CHEMICALS CO., LTD.+81-3-3661-1677 |
| Recommended use and restrictions on use | : |

2. HAZARDS IDENTIFICATION

GHS Classification

| | |
|---|-------------------------------|
| Physical and Chemical Hazards | : Not classified |
| Health Hazards | |
| Acute Toxicity (Oral) | : CATEGORY 5 |
| Acute Toxicity (Dermal) | : Classification not possible |
| Acute Toxicity (Inhalation : gases) | : Not classified |
| Acute Toxicity (Inhalation : vapors) | : Classification not possible |
| Acute Toxicity (Inhalation : dust, mists) | : Classification not possible |
| Skin Corrosion / Irritation | : Classification not possible |
| 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 | |
| Short-term (acute) hazardous to the aquatic environment | : Classification not possible |
| Long-term (chronic) hazardous to the aquatic environment | : Classification not possible |
| Hazardous to The Ozone Layer | : Classification not possible |
| GHS Label Elements | |
| Pictograms or Symbols | : |

| | |
|--------------------------|--|
| Signal Word | : Warning |
| Hazard Statements | : 【H303】 May be harmful if swallowed |
| Precautionary Statements | |
| 【Prevention】 | : 【P264】 Wash thoroughly after handling. 【P270】 Do not eat, drink or smoke when using this product. |
| 【Response】 | : 【P301+P312】 IF SWALLOWED: Call a doctor / physician if you feel unwell. 【P330】 Rinse mouth. 【P302+P352】 IF ON SKIN: Wash with plenty of soap and water. 【P305+P351+P338】 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| 【Storage】 | : 【P404】 Store in a closed container. |
| 【Disposal】 | : 【P501】 Dispose of contents/container in accordance with local/regional/national/international regulation(to be specified). |
| 【Safe Handling Advice】 | : 【N00-010】 Refer to SDS |

3. COMPOSITION / INFORMATION ON INGREDIENTS

| | |
|-------------------------------------|----------------------------|
| Substance or Mixture | : Substance |
| Ingredients and Concentration Range | : |
| Ingredient (INCI Name) | concentration(%) / CAS RN® |
| POE(4)Stearyl Ether | 100 / 9005-00-9 |
| (Steareth-4) | |

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

| | |
|----------------------------------|--|
| Suitable Extinguishing Media | : Powder, alcohol-resistant foam, carbon dioxide, sand, water spray. |
| Not Suitable Extinguishing Media | : No data available |
| Special Hazards | : During a fire, toxic gases (e.g., carbon monoxide, nitrogen oxide etc) may be generated. Avoid inhaling smoke during fire extinguishing. |

Special Methods

: 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 Protective Action for 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

Personal Precautions, Protective Equipment and Emergency Procedure
Environmental Precautions
Methods and Materials for Contamination and Cleaning Up

: Use goggles and protective gloves. In case of large spills, remove person to safety. Ensure adequate ventilation.
: 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.

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.

Contact Avoidance

: 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

Control parameters

ACGIH

: Not established (2008)

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.

Protective Equipment

Respiratory Protection

: Not needed in case of standard handling.

Hand Protection

: Impermeable protective gloves.

Eye/Face Protection

: Goggles or protective glasses with side protectors.

Skin and Body Protection

: Workwear with long sleeves.

Special Precautions

: No data available

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|--|
| Physical State | : Solid |
| Color | : White to pale yellow |
| Odor | : Characteristic odor |
| Melting Point / Congealing point | : Congealing point : 38.2°C(Reference) |
| Boiling Point or initial boiling point and boiling range | : No data |
| Flammability | : No data |
| Lower and Upper explosion limit / Flammability Limits | : Upper Limit : No data, Lower Limit : No data |
| Flash Point | : 222°C |
| Auto-Ignition Temperature | : No data |
| Decomposition Temperature | : No data |
| pH | : 4~7(5% aq.sol.) |
| Kinematic Viscosity | : No data |
| Solubility | : Insoluble(10%) |
| Partition Coefficient : n-Octanol / Water | : No data |
| Vapour Pressure | : No data |
| Density and/or Relative Density | : No data |
| Relative Vapour Density | : No data |
| Particle Characteristics | : |
| Other Data | : No data |

10. STABILITY AND REACTIVITY

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

11. TOXICOLOGICAL INFORMATION

| | |
|---|--|
| Acute Toxicity (oral) | : LD50, Rat, oral, >25g/kg [Ref. NIKKOL BS-2(POE(2) Stearyl Ether)] |
| 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 | : No data |
| Serious Eye Damage / Irritation | : ①Rabbit, 60% a.q.solu. Eyedrop, Mildly irritating ②Rabbit, Draize, 60% a.q.solu., Non eyewash : Negligibly irritating, Eyewash : Non irritant [Ref. NIKKOL BS-2(POE(2) Stearyl Ether)] |
| Respiratory or Skin Sensitization | : No data |
| Mutagenicity (germ cell mutagenicity) | : No data |
| Carcinogenicity | |
| IARC | : Not applicable |
| NTP | : Not applicable |
| Reproductive Toxicity | : No data |
| Specific Target Organ Systemic Toxicity (Single Exposure) | : No data |

Specific Target Organ Systemic Toxicity (Repeated Exposure) : No data
Aspiration Hazard : No data

12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

Either incinerate in small quantities in the incinerator or entrust to a specialized waste disposal contractor licensed by the prefectural governor.

14. TRANSPORT INFORMATION

International Regulations : Please follow applicable IATA regulations for air transport and IMDG regulations for sea transport.

UN Class / UN Number :

IATA : UN Number : —

Proper Shipping Name :

Class :

Packing Group :

IMDG : UN Number : —

Proper Shipping Name :

Class :

Packing Group :

Additional Information :

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) : 7-97

16. OTHER INFORMATION

Reference : International Chemical Safety Cards(ICSC)Compiler's Guide
CERI・NITE hazard assessment report 2006

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.