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SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

| | |
|---|---|
| Product Name | : NIKKOL CA-101 |
| 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 4 |
| 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 | : CATEGORY 1 |
| Serious Eye Damage / Eye Irritation | : CATEGORY 1 |
| 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 | : CATEGORY 1 |
| Long-term (chronic) hazardous to the aquatic environment | : Not classified |
| Hazardous to The Ozone Layer | : Classification not possible |

GHS Label Elements

Pictograms or Symbols

:



Signal Word

: Danger

Hazard Statements

: **【H302】** Harmful if swallowed
【H317】 May cause an allergic skin reaction
【H318】 Causes serious eye damage
【H400】 Very toxic to aquatic life

Precautionary Statements

【Prevention】

: **【P264】** Wash thoroughly after handling.
【P270】 Do not eat, drink or smoke when using this product.
【P261】 Avoid breathing dust / fume / gas / mist / vapours / spray.
【P272】 Contaminated work clothing should not be allowed out of the workplace.
【P280】 Wear protective gloves / protective clothing / eye protection / face protection.
【P273】 Avoid release to the environment.

【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.
【P333+P313】 If skin irritation or rash occurs: Get medical advice / attention.
【P363】 Wash contaminated clothing before reuse.
【P305+P351+P338】 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
【P310】 Immediately call a doctor / physician.
【P391】 Collect spillage.

【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

: Mixture

Ingredients and Concentration Range

:

Ingredient (INCI Name)

concentration(%)

/ CAS RN®

Benzalkonium Chloride

50

/ 61789-71-7

(Benzalkonium Chloride)

Water

50

/ 7732-18-5

(Water)

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 form, 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 | : 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. |
| Methods and Materials for Contamination and Cleaning Up | : 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 mists 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 | : Liquid |
| Color | : Colorless to pale-yellow |
| Odor | : Faint characteristic odor |
| Melting Point / Congealing point | : No data |
| 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 | : Non-detection |
| Auto-Ignition Temperature | : No data |
| Decomposition Temperature | : No data |
| pH | : 7.0~8.0 (Stock solution) |
| Kinematic Viscosity | : No data |
| Solubility | : Soluble |
| 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) | : Mouse LD50 500 mg/kg 1) Mouse LD50 340 mg/kg 2) |
| 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 | : Guinea pig, 1% (active) aq, 24 hours closed patch test : average final score = 3.8 Human, 0.3% (active) aq, 24 hours closed patch test : average final score = 0.08 |
| Serious Eye Damage / Irritation | : Draize, 1% (active) aq, Non-eye wash : I.A.O.I. = 36.0, Severely irritating |
| 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 | : Killifish, 96h, LC50 : 1.6 mg/L |
| 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 | : UN1760 |
| Proper Shipping Name | : Corrosive Liquid, n. o. s. (containing Quaternary Ammonium Chloride) |
| Class | : Class 8 |
| Packing Group | : III |
| IMDG : UN Number | : UN1760 |
| Proper Shipping Name | : Corrosive Liquid, n. o. s. (containing Quaternary Ammonium Chloride) |
| Class | : Class 8 |
| Packing Group | : III |
| Additional Information | : Marine pollutant |

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)

: 3-2694, None

16. OTHER INFORMATION

Reference

: International Chemical Safety Cards(ICSC)Compiler's Guide Japan Surfactant Industry Association(JSIA)GHS classification 1) "Cosmetics Handbook" Nikko Chemicals(2006)2) "Japanese journal of toxicology and environmental health." The Pharmaceutical Society of Japan(PSJ)IUCALID: International Uniform Chemical Information Database

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.