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## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION


Product Name	: NIKKOL BD-4SY
Company	: NIPPON SURFACTANT INDUSTRIES CO., LTD.
Address	: 7-14 Hiraide Kogyo Danchi Utsunomiya, Tochigi 321-0905, JAP AN
Division	: Quality Assurance 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)	: Not classified
Acute Toxicity (Dermal)	: Not classified
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 2
Serious Eye Damage / Eye Irritation	: CATEGORY 1
Respiratory Sensitization	: Classification not possible
Skin Sensitization	: Not classified
Germ Cell Mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive Toxicity	: Not classified
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	:	Danger
Hazard Statements	:	<p>【H315】 Causes skin irritation</p> <p>【H318】 Causes serious eye damage</p>
Precautionary Statements	:	
【Prevention】	:	<p>【P264】 Wash thoroughly after handling.</p> <p>【P280】 Wear protective gloves / protective clothing / eye protection / face protection.</p>
【Response】	:	<p>【P301+P312】 IF SWALLOWED: Call a doctor / physician if you feel unwell.</p> <p>【P302+P352】 IF ON SKIN: Wash with plenty of soap and water.</p> <p>【P362】 Take off contaminated clothing and wash before reuse.</p> <p>【P332+P313】 If skin irritation occurs: Get medical advice / attention.</p> <p>【P305+P351+P338】 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>【P310】 Immediately call a doctor / physician.</p>
【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)Mono n-Decyl Ether (C12-15 Alketh-4)		100 / 5703-94-6

### 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 at temperature not exceeding 5°C.
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	: Liquid
Color	: Colorless to light 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	: 183°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)	: Rat, LD50 : Male 8.6g/kg, Female 9.1g/kg Mouse, LD50 : Male 4.9g/kg, Female 7.6g/kg Swiss mouse (weight 25~30g), LD50 : 5~10g/kg
Acute Toxicity (dermal)	: Rat, LD50 : >2000mg/kg, 8000mg/kg not die
Acute Toxicity (Inhalation : gases)	: No data
Acute Toxicity (Inhalation : vapors)	: No data
Acute Toxicity (Inhalation : dust, mists)	: No data
Skin Corrosion / Irritation	: Rabbit, Draize, 72hrs, edema, P II : 0.58/8

Serious Eye Damage / Irritation	: Rabbit,Draize, • 10,20% : Mildly irritating • 100% : Moderately irritating
Respiratory or Skin Sensitization	: C12AE(9),Marmotte,into the skin 3times/Week,3weeks total9times,Cause : 2Weeks result : not sensitization
Mutagenicity (germ cell mutagenicity)	: in vitro ,in vivo : Negative
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  
1)Guidance on the preparation of GHS MSDS of surfactant(2010 edition)2)CERI·NITE hazard assessment report 2005

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.