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SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : **NIKKOL BD-1SY**
 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) : Not classified
 Acute Toxicity (Inhalation : gases) : Not applicable
 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
 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 : Danger
 Hazard Statements : Causes skin irritation
 Causes serious eye damage
 Precautionary Statements
 [Prevention] : Wash thoroughly after handling.
 Wear protective gloves/protective clothing/eye protection/face protection.
 [Response] : IF SWALLOWED: Call a doctor/physician if you feel unwell.
 IF ON SKIN: Wash with plenty of soap and water.
 Take off contaminated clothing and wash before reuse.
 If skin irritation occurs: Get medical advice/attention.
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 Immediately call a doctor/physician.
 [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 (1) Mono n-Decyl Ether (C12-15 Pareth-1)		100	23238-40-6

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

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	: 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.
Prevention of Secondary Hazards	

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 at temperature not exceeding 5 ° C.	
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	: Colorless to light yellow
Odor	: faint characteristic odor
pH	: No data available

Specific Temperatures / temperature Ranges at which Changes in Physical State Occur

Boiling Point	: No data available
Melting Point (Congealing point)	: No data available
Flash Point	: No data available
Flammability or Explosive Properties	:
Flammability or Explosive Limits	: Upper Limit : no data available Lower Limit : no data available
Vapour Pressure	: No data available
Vapour Density	: No data available
Specific Gravity	: No data available
Solubility	Water Solubility : No data available
	Solvent Solubility : No data available
Partition Coefficient :	: No data available
Auto-Ignition Temperature	: No data available
Decomposition Temperature	: No data available
Odor Threshold	: No data available
Evaporation Rate	: No data available
Flammability (solid, gas)	: No data available
Other Data	:

10. STABILITY AND REACTIVITY

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

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(weight25 ~ 30g) , LD50 : 5 ~ 10g/kg
Acute Toxicity (dermal)	: Rat , LD50 : > 2000mg/kg , 8000mg/kg not die
Acute Toxicity (Inhalation : gases)	: No data available
Acute Toxicity (Inhalation : vapors)	: No data available
Acute Toxicity (Inhalation : dust, mists)	: No data available
Skin Corrosion / Irritation	: Rabbit , Draize , 72hrs , edema , P :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	: Negative (Mouse)
IARC	: Not applicable
NTP	: Not applicable
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 information available
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 CONSIDERATIONS

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)	: 7-97
TSCA(USA)	: None
EINECS(EU)	: 245-512-7
AICS(Australia)	: None
DSL(Canada)	: None
ECL(Korea)	: None
IECSC(China)	: None

16. OTHER INFORMATION

Reference

International Chemical Safety Cards (ICSC)Compiler's Guide
1)Guigance 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.