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SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	: NIKKOL OTP-75
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	: FLAMMABLE LIQUIDS
Health Hazards	
Acute Toxicity (Oral)	: Not classified
Acute Toxicity (Dermal)	: Not classified
Acute Toxicity (Inhalation : gases)	: Classification not possible
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 2A
Respiratory Sensitization	: Classification not possible
Skin Sensitization	: Classification not possible
Germ Cell Mutagenicity	: Classification not possible
Carcinogenicity	: Classification not possible
Reproductive Toxicity	: CATEGORY 1A
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 3
Long-term (chronic) hazardous to the aquatic environment	: Classification not possible
Hazardous to The Ozone Layer	: Not classified

GHS Label Elements

Pictograms or Symbols

:



Signal Word

: Danger

Hazard Statements

: **【H226】** Flammable liquid and vapour
【H360】 May damage fertility or the unborn child
【H319】 Causes serious eye irritation
【H315】 Causes skin irritation
【H402】 Harmful to aquatic life

Precautionary Statements

【Prevention】

: **【P210】** Keep away from heat / sparks / open flames/hot surfaces. -No smoking.
【P233】 Keep container tightly closed.
【P240】 Ground/bond container and receiving equipment.
【P241】 Use explosion-proof electrical / ventilating / lighting equipment.
【P242】 Use only non-sparking tools.
【P243】 Take precautionary measures against static discharge.
【P280】 Wear protective gloves / protective clothing / eye protection / face protection.
【P201】 Obtain special instructions before use.
【P202】 Do not handle until all safety precautions have been read and understood.
【P281】 Use personal protective equipment as required.
【P264】 Wash thoroughly after handling.
【P273】 Avoid release to the environment.

【Response】

: **【P303+P361+P353】** IF ON SKIN(or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
【P308+P313】 IF exposed or concerned: Get medical advice / attention.
【P362】 Take off contaminated clothing and wash before reuse.
【P332+P313】 If skin irritation occurs: Get medical advice / attention.

【Storage】

: **【P403+P235】** Store in a well-ventilated place. Keep cool.
【P405】 Store locked up.

【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®
Sodium Di(2-Ethylhexyl)Sulfosuccinate Solution (Diethylhexyl Sodium Sulfosuccinate)	73-75	/ 577-11-7
Water (Water)	18-21	/ 7732-18-5
Ethanol (Alcohol)	6.0-7.0	/ 64-17-5

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	: 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 Containment 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

:

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 and transparent

Odor

: Faint characteristic odor

Melting Point / Congealing point

: No data

Boiling Point or initial boiling point and boiling range

: 78°C(Ethanol/Water)

Flammability

: No data

Lower and Upper explosion limit /

: Upper Limit : 19vol%, Lower Limit : 3.3vol%(Ethanol)

Flammability Limits

Flash Point

: 29°C(Pensky-Martens closed method)

Auto-Ignition Temperature

: No data

Decomposition Temperature

: No data

pH

: 5~7(1% aq.sol.)

Kinematic Viscosity

: No data

Solubility

: 15 g /100mL(Water : 25°C)

Partition Coefficient : n-Octanol / Water

: No data

Vapour Pressure

: No data

Density and/or Relative Density

: 1.09

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,Carbon dioxide,Sulfur oxide

11. TOXICOLOGICAL INFORMATION

Acute Toxicity (oral) : LD50> 5.0g/kg(Rat)
 Acute Toxicity (dermal) : LD50>10.0g/kg(Rabbit)
 Acute Toxicity (Inhalation : gases) : No data
 Acute Toxicity (Inhalation : vapors) : No data
 Acute Toxicity (Inhalation : dust, mists) : No data
 Skin Corrosion / Irritation : Skin Corrosion : No symptoms of irritation and allergen reaction. (Improved Draize- Shelanski patch test method.) : Low-sensitivity. (Human,1%,patch test)Skin irritation : Slight irritation. (Rabbit,solid,8 - 10g,24hrs patched on skin)Primary irritation : Moderate irritation. (Rabbit,10 0% and 20% propylene glycol sol.)
 Serious Eye Damage / Irritation : Moderate irritation (Rabbit,solid)Slight irritation (Rabbit,0.1 - 0.5% concentration)
 Respiratory or Skin Sensitization : No skin sensitization
 Mutagenicity (germ cell mutagenicity) : No data
 Carcinogenicity :
 IARC : Not applicable
 NTP : Not applicable
 Reproductive Toxicity : Many cases of malformation and harmful effects on fetus are reported by habitual large quantity intakes of alcohol.
 Specific Target Organ Systemic Toxicity (Single Exposure) : Many cases of malformation and harmful effects on fetus are reported by habitual large quantity intakes of alcohol.
 Specific Target Organ Systemic Toxicity (Repeated Exposure) : No data
 Aspiration Hazard : No data

12. ECOLOGICAL INFORMATION

Ecotoxicity : Fish : LC50=54.5mg/L(OECD203,96hr,Bluegill) : LC50=35.4 mg/L(OECD203,96hr,Oncorhynchus mykiss)
 Persistence / Degradability :
 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	: UN1993
Proper Shipping Name	: Flammable liquids, n.o.s.
Class	: Class 3
Packing Group	: III
IMDG : UN Number	: UN1993
Proper Shipping Name	: Flammable liquids, n.o.s.
Class	: Class 3
Packing Group	: III
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)	: 2-1623,2-202

16. OTHER INFORMATION

Reference	: DFGOT(1996)
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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.