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SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name : NIKKOL SO-15MV

: NIPPON SURFACTANT INDUSTRIES CO., LTD. Company

Address : 7-14 Hiraide Kogyo Danchi Utsunomiya, Tochigi 321-0905, JAP

Division : Quality Assurance Division

: 028-661-6121 Tel. No. 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

: Not classified Acute Toxicity (Oral)

Acute Toxicity (Dermal) : Classification not possible

: Not classified **Acute Toxicity**

(Inhalation: gases)

Acute Toxicity : Classification not possible

(Inhalation : vapors)

Acute Toxicity : Classification not possible

(Inhalation: dust, mists)

: CATEGORY 3 Skin Corrosion / Irritation

Serious Eye Damage / Eye Irritation : Classification not possible **Respiratory Sensitization** : Classification not possible

Skin Sensitization : Not classified Germ Cell Mutagenicity : Not classified

Carcinogenicity : Classification not possible Reproductive Toxicity : Classification not possible

Specific Target Organ Systemic : Classification not possible Toxicity (Single Exposure)

Specific Target Organ Systemic

Toxicity (Repeated Exposure)

Aspiration Hazard : Classification not possible

Environmental Hazards

Short-term (acute) hazardous to : Classification not possible

the aquatic environment

Long-term (chronic) hazardous to : Classification not possible

the aquatic environment

Hazardous to The Ozone Layer : Classification not possible

GHS Label Elements

Pictograms or Symbols

: Classification not possible



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Signal Word : Warning

Hazard Statements : [H316] Causes skin irritation

Precautionary Statements

[Prevention] : [P264] Wash thoroughly after handling.

[Response] : [P301+P312] IF SWALLOWED: Call a doctor / physician if you

feel unwell.

[P302+P352] IF ON SKIN: Wash with plenty of soap and wate

r.

[P332+P313] If skin irritation occurs: Get medical advice / att

ention

[P305+P351+P338] IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy t

o do. Continue rinsing.

[Storage] : [P404] Store in a closed container.

[Disposal] : [P501] Dispose of contents/container in accordance with loc

al/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®
Sorbitan Sesquioleate 100 / 8007-43-0

(Sorbitan Sesquioleate)

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. If skin irritation occurs: Get medical advice / attention.

In Case of Eye Contact : Rinse cautiously with water for several minutes. Remove conta

ct 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 anythi $\,$

ng through the mouth.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media : Powder, alcohol-resistant form, carbon dioxide, sand, water sp

ray.

Not Suitable Extinguishing Media : No data available

Special Hazards : During a fire, toxic gases (e.g., carbon monoxide, nitrogen oxid

e etc) may be generated. Avoid inhaling smoke during fire exti

nguishing.





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Special Methods

: Remove all combustible objects away from the fire and use ad equate 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 machine ry 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.

Spetial 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 gene rated. Avoid inhaling smoke during fire extinguishing.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedure Environmental Precautions

Methods and Materials for Contaminment and Cleaning Up

Prevention of Secondary Hazards

- : 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 (sa nd, soil, cloth) and wipe away the remains with cloth or fabric. Flush surroundings with large amounts of water. In case of a la rge spill, surround it with the mound of sand or soil to prevent elution and collect into drums or other containers.

Promptly remove all combustible objects away from the spill a nd 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

Contact Avoidance Safe Handling Advice

Storage

Suitable Storage Conditions Safe Packaging Materials : The shower with water (for washing of eyes and body) must be installed near the handling facility.

: Keep away from source of ignition.

: Use adequate ventilation. Use goggles and protective gloves. Wash thoroughly after handling.

: Store in a well-ventilated place. Keep cool.

: 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 i s generated at the operation facility. Shower with water (for w

as generated at the operation facility. Snower with water (for w ashing eyes and body) must be installed near the handling faci

lity.

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.

Spetial Precautions : No data available

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Liquid

Color : Pale yellow to yellow Odor : Faint characteristic odor

Melting Point / Congealing point : No data
Boiling Point or initial boiling point and : No data

boiling range

Flammability : No data

Lower and Upper explosion limit / : Upper Limit : No data,Lower Limit : No data

Flammability Limits

Flash Point : 246°C(Cleveland Open Cup)

Auto-Ignition Temperature : No data

Decomposition Temperature : No data

pH : No data

Kinematic Viscosity : No data

Solubility : Insoluble(10%)

Partition Coefficient : n-Octanol / Water : No data

Vapour Pressure : No data: No data: No data

Decsity and/or Relative Dencity : 0.960~1.020(25°C)(Reference)

Relative Vapour Dencity : 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 availableCondition to Avoid: No data available

Incompatible Materials : No Data

Hazardous Decomposition Products : Carbon monoxide, Nitrogen compound

11. TOXICOLOGICAL INFORMATION

Acute Toxicity (oral) : LD50,Rat,>20g/kg(1)

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 : Rabbit,2g/day,10 days,Mildly irritating (1)

Serious Eye Damage / Irritation : No data

Respiratory or Skin Sensitization : Skin sensitization, Guinea pig, Maximization, Negative(1)

Mutagenicity (germ cell mutagenicity) : No DNA damage, No reverse mutation(1)

Carcinogenicity

IARC : Not applicable
NTP : Not applicable
Reproductive Toxicity : No data
Specific Target Organ Systemic Toxicity : No data

(Single Exposure)

Specific Target Organ Systemic Toxicity : No data

(Repeated Exposure)

Aspiration Hazard : No data





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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 CINSIDERATIONS

Either incinerate in small quantities in the incinerator or entru st to a specialized waste disposal contractor licensed by the pr efectural 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 :

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

Additional Information

Inventories:

ENCS(Japan) : 8-63

16. OTHER INFORMATION

Reference : International Chemical Safety Cards(ICSC)Compiler's Guide

(1)"Cosmetics Handbook" Nikko Chemicals(2006)





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The information described herein is based on the documents, i nformation and data, etc. on this product that are currently av ailable to us, but the values, such as contents of ingredients, p hysical and chemical properties, are not necessarily identical t o those in the specification. In addition, the precautions are int ended for the cases where this product is handled and used un der normal conditions. Thus, in cases of special uses or handli ng, users should use and handle it, taking appropriate safety m easures in accordance with the intended uses and how to use t he product.