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## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	: NIKKOL Zinc-Glycine Complex
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	: Not classified
Serious Eye Damage / Eye Irritation	: CATEGORY 1
Respiratory Sensitization	: Classification not possible
Skin Sensitization	: Not classified
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	: 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

: 【H000】 Not classified

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 water.

【P305+P351+P338】 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

【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®

Zinc Glycinate

100

/ 14281-83-5

(Zinc Glycinate)

### 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 Environmental Precautions Methods and Materials for Contamination and Cleaning Up	: 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 (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  Contact Avoidance Safe Handling Advice	: 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.
Storage Suitable Storage Conditions Safe Packaging Materials	: 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 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 Hand Protection Eye/Face Protection	: Not needed in case of standard handling. : Impermeable protective gloves. : Goggles or protective glasses with side protectors.

Skin and Body Protection : Workwear with long sleeves.  
 Spetial Precautions : No data available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State : Crystal or powder  
 Color : White  
 Odor : Faint characteristic odor  
 Melting Point / Congealing point : 232~236°C  
 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 : No data  
 Auto-Ignition Temperature : No data  
 Decomposition Temperature : No data  
 pH : No data  
 Kinematic Viscosity : No data  
 Solubility : No data  
 Partition Coefficient : n-Octanol / Water : No data  
 Vapour Pressure : No data  
 Decsity and/or Relative Dencity : No data  
 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 available  
 Condition to Avoid : No data available  
 Incompatible Materials : No Data  
 Hazardous Decomposition Products : Carbon monoxide, Nitrogen compound

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity (oral) : LD50, Rat (Male Female, Each 5), 2,052mg/kg (Male), 1,858mg/kg (Female)  
 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, 50% suspension, 14 days, Non irritant  
 Serious Eye Damage / Irritation : Rabbit, (Male, Female) 3 animals, Draize, 0.1g powder, Severely irritating  
 Respiratory or Skin Sensitization : Guinea pig, 30 animals, Adjuvant and Patch Test, Negative  
 h-CL  
 AT method, max 20µg/mL, DMSO, Negative  
 Mutagenicity (germ cell mutagenicity) : No data  
 Carcinogenicity  
 IARC : Not applicable  
 NTP : Not available  
 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)	: 2-1201

## 16. OTHER INFORMATION

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