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## SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	: NIKKOL CA-2450
Company	: NIPPON SURFACTANT INDUSTRIES CO., LTD.
Address	: 7-14 Hiraide Kogyo Danchi Utsunomiya, Tochigi 321-0905, JAPAN
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	: FLAMMABLE LIQUIDS CATEGORY 2
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#### 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	: Classification not possible
Serious Eye Damage / Eye Irritation	: CATEGORY 2A
Respiratory Sensitization	: Classification not possible
Skin Sensitization	: Classification not possible
Germ Cell Mutagenicity	: CATEGORY 1B
Carcinogenicity	: Classification not possible
Reproductive Toxicity	: CATEGORY 1A
Specific Target Organ Systemic Toxicity (Single Exposure)	: CATEGORY 3
Specific Target Organ Systemic Toxicity (Repeated Exposure)	: CATEGORY 1
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

: **【H225】** Highly flammable liquid and vapour  
**【H302】** Harmful if swallowed  
**【H319】** Causes serious eye irritation  
**【H340】** May cause genetic defects  
**【H360】** May damage fertility or the unborn child  
**【H335】** May cause respiratory irritation  
**【H372】** Causes damage to organs through prolonged or repeated exposure

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.  
**【P242】** Use only non-sparking tools.  
**【P243】** Take precautionary measures against static discharge.  
**【P280】** Wear protective gloves / protective clothing / eye protection / face protection.  
**【P264】** Wash thoroughly after handling.  
**【P201】** Obtain special instructions before use.  
**【P202】** Do not handle until all safety precautions have been read and understood.  
**【P260】** Do not breathe dust / fume / gas / mist / vapours / spray.

**【Response】**

: **【P303+P361+P353】** IF ON SKIN(or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
**【P301+P310】** IF SWALLOWED: Immediately call a doctor / physician.  
**【P330】** Rinse mouth.  
**【P305+P351+P338】** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**【P337+P313】** If eye irritation persists: Get medical advice / attention.  
**【P308+P313】** IF exposed or concerned: Get medical advice / attention.  
**【P304+P340】** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
**【P312】** Call a doctor / physician if you feel unwell.  
**【P314】** Get medical advice / attention if you feel unwell.

【Storage】	: 【P403+P233】 Store in a well-ventilated place. Keep container tightly closed. 【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®
Stearyl Trimethyl Ammonium Chloride (Stearyltrimonium Chloride)	50 / 112-03-8
Ethanol (Alcohol)	42 / 64-17-5
Water (Water)	8 / 7732-18-5

### 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  
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.  
: 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.  
: Keep away from source of ignition.  
: Use adequate ventilation. Use goggles and protective gloves. Wash thoroughly after handling.

Contact Avoidance

Safe Handling Advice

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

: Ethanol :STEL 1000ppm (2009)

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

: White 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

: 18.0°C

Auto-Ignition Temperature

: No data

Decomposition Temperature	: No data
pH	: 4.5~7.0(10% aq.sol.)
Kinematic Viscosity	: No data
Solubility	: Soluble
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)	: (Data on product) LD50, Rat, 0.0625~1.25g/kg (Data on ingredient) Ethanol : LD50, 6.2 - 17.8 g/kg
Acute Toxicity (dermal)	: No data
Acute Toxicity (Inhalation : gases)	: No data
Acute Toxicity (Inhalation : vapors)	: (Data on product) No data (Data on ingredient) Ethanol : Rat, LC50, 20000ppm/10H
Acute Toxicity (Inhalation : dust, mists)	: No data
Skin Corrosion / Irritation	: (Data on product) Rabbit, Draize method, 25, 2.5, 1.25% aqueous solution, 0.5ml, Negligibly irritating (Data on ingredient) Ethanol : The examination that obeyed OECD TG404 and American guidelines, Non irritant
Serious Eye Damage / Irritation	: (Data on product) Rabbit, Draize method, 25, 1.25%, aqueous solution, Negligibly irritating (Data on ingredient) Ethanol : The examination that obeyed OECD TG404 and Draize test, moderate
Respiratory or Skin Sensitization	: No data
Mutagenicity (germ cell mutagenicity)	: (Data on product) No data (Data on ingredient) Ethanol : Dominant lethal report in a rat and a mouse, Aneuploidy induction in the mouse generative cell
Carcinogenicity	
IARC	: Not applicable
NTP	: Not available
Reproductive Toxicity	: (Data on product) No data (Data on ingredient) Ethanol : Severely irritating
Specific Target Organ Systemic Toxicity (Single Exposure)	: (Data on product) No data (Data on ingredient) Ethanol : Human, 5000ppm (9.4mg/L), Respiratory tract irritation
Specific Target Organ Systemic Toxicity (Repeated Exposure)	: (Data on product) No data available (Data on ingredient) Ethanol : Severely irritating
Aspiration Hazard	: No data

## 12. ECOLOGICAL INFORMATION

Ecotoxicity	: (Data on product) No data (Data on ingredient) Ethanol : 48 hours of Crustacea (Daphnia magna) LC50=5463.9mg/L
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Persistence / Degradability	: (Data on product)No data(Data on ingredient)Ethanol : No po or water solubility,Acute toxicity is low
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	: UN2924
Proper Shipping Name	: FLAMMABLE LIQUID CORROSIVE N.O.S
Class	: Class 3
Packing Group	: II
IMDG : UN Number	: UN2924
Proper Shipping Name	: FLAMMABLE LIQUID CORROSIVE N.O.S
Class	: Class 3
Packing Group	: II
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)	: 2-184,2-202,None

### 16. OTHER INFORMATION

Reference	: International Chemical Safety Cards(ICSC)Compiler's Guide CERI・NITE hazard assessment report 2006 Special notes: Please be careful when melting by heating.
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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.