

	<b>Material Safety Data Sheet</b>	Date of Issue	Nov. 27. 2009
		Date of Rev.	Jan. 01. 2015
<b>MICOLIN SCS40</b>		Rev. No	3

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## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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- a. Product name :** MICOLIN SCS40
- b. Recommended use of the chemical and restrictions on use :**
- . **Recommended use :** Liquid detergent, Hydrotrope
  - . **Restrictions on use :** No Data
- c. Information on manufacture/supplier/distributor**
- Company name : Miwon Chemicals co.,Ltd.
- Address : 247, Jangsaengpo-ro, Nam-Gu, Ulsan, 680-050, KOREA
- d. Emergency telephone**
- Tel : +82-52-261-7988      Fax : +82-52-269-8413

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## 2. HAZARDS IDENTIFICATION

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- a. Hazard classification**
- Skin corrosion/irritation Category 2
- b. Label elements including precautionary statements**
- . **Pictograms**



- . **Signal words** : WARNING.
  - . **Hazard statements**
  - . **Precautionary statements**
- Prevention**
- P264 Wash hands thoroughly after handling
- P280 Wear protective gloves/protective clothing/eye protection/.../face protection
- Response**
- P302 + P352 If on skin: Rinse continuously with water and soap for several minutes
- P321 Specific treatment (see ... on this label)
- P332 + P313 If skin irritation occurs: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse
- Storage**

No data

**Disposal**

No data

**c. Other hazards which do not result in classification**

. **NFPA Rating** : Health=1, Flammability=No data, Instability=0

(0 = Insignificant / 1 = Slight / 2 = Moderate / 3 = High / 4 = Extreme)

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**3. COMPOSITION / INFORMATION ON INGREDIENTS**

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**Componet A**

1) **Chemical name** : Sodium Cumene Sulfonate

2) **CAS no. or Identification no.** : 28348-53-0

3) **Content** : 40%

**Componet B**

1) **Chemical name** : Water

2) **CAS no. or Identification no.** : 7732-18-5

3) **Content** : 60%

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**4. FIRST AID MEASURES**

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**a. Eye contact**

Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains. Get medical attention immediately.

**b. Skin contact**

Remove contaminated clothing and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Get medical attention, if needed.

**c. Inhalation**

Remove from exposure immediately. Use a bag valve mask or similar device to perform artificial respiration (rescue breathing) if needed. Get medical attention.

**d. Ingestion**

If vomiting occurs, rinse mouth and keep head lower than hips to help prevent aspiration. Get medical attention, if needed.

**e. Most Important acute and delayed symptoms/effects**

Swallowing may cause nausea and cause pain in esophagus and stomach.

**f. First aid and notes for physicians**

Treat symptomatically. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

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## 5. FIRE FIGHTING MEASURES

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### a. Suitable (and unsuitable) extinguishing media

Water, Carbon dioxide, alcohol foam or dry chemical.

### b. Specific hazards arising from the chemical (e.g. hazardous combustion products)

Flammable Liquid may release vapors that form flammable mixtures when temperatures are at or above the flash point. Toxic gases will form upon combustion.

### c. Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and protective clothing.

Wear full protective clothing and self-contained breathing apparatus.

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## 6. ACCIDENTAL RELEASE MEASURES

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### a. Measures required for personal and protective equipment

Wear appropriate clothing. Wear respiratory protection. Eliminate all sources of ignition.

Vapours can accumulate in low areas.

### b. Measures required for environment protection

Try to prevent the material from entering drains or water courses..

### c. Clean-up and removal method

. **Small spills** : Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

. **Large spills** : Dike for later disposal. Remove sources of ignition. Keep unnecessary people away, isolate hazard area and deny entry.

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## 7. HANDLING AND STORAGE

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### a. Precautions for safe handling

Avoid heat, sunlight, ignition sources. Handle with care. Open only under well ventilated conditions. Loosen closure cautiously before opening. When using this substance, avoid breathing, ingestion and use respiratory protection when in dust or mist form. Wear chemical goggles resistant gloves and protective clothing to prevent contact. Wash thoroughly after handling.

### b. Conditions for safe storage (including incompatibilities)

Store and handle in accordance with all current regulations and standards

Keep separated from incompatible substances

Store in cool and dry area

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

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### a. Exposure limits of the chemical substance, biological exposure limits and etc.

Not available

**b. Appropriate engineering controls**

Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment.

**c. Personal protective equipment**

**. Protection of respiratory system**

Respiratory protection if there is a risk of exposure to high vapour concentration.

**. Eye protection**

Chemical goggles or face shield

**. Hand protection**

Chemical resistant gloves

**. Body protection**

Wear appropriate chemical resistant clothing

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>a. Appearance</b>	Yellow and Clear
<b>b. Odor</b>	Characteristic odor
<b>c. Odor threshold</b>	No data
<b>d. pH</b>	6.5 ~ 9.5 (1% soln.)
<b>e. Melting point/freezing point</b>	7°C
<b>f. Initial boiling point/boiling range</b>	101°C
<b>g. Flash Point</b>	No data
<b>h. Evaporation rate</b>	Not available
<b>i. Flammability(solid,gas)</b>	No data
<b>j. Upper/lower flammable or explosive limits</b>	No data
<b>k. Vapor Pressure</b>	17mmHg
<b>l. Solubility</b>	Soluble in water
<b>m. Vapor Density</b>	< 1
<b>n. Specific gravity</b>	1.17
<b>o. Partition coefficient/n-octanol/water</b>	No data
<b>p. Auto-ignition temperature</b>	No data
<b>q. Decomposition Temperature</b>	No data
<b>r. Viscosity</b>	No data
<b>s. Molecular Weight</b>	222

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**10. STABILITY AND REACTIVITY**

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**a. Chemical stability**

This material is stable under recommended storage and handling conditions.

**b. Possibility of hazardous reactions**

Strong oxidizing agents

**c. Conditions to avoid**

Avoid heat, flames, sparks and other sources of ignition.

**d. Incompatible materials**

Flammable materials, oxidizing materials

**e. Hazardous decomposition products**

Oxidization of carbon, oxides of sulfur

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**11. TOXICOLOGICAL INFORMATION**

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**\* Toxicological information is based on 100% concentration of material.**

**a. Information on the likely routes of exposure**

No data

**b. Delayed and immediate effects and chronic effects form short or long term exposure**

. **Acute toxicity(All routes of possible exposure shall be mentioned.)**

Oral : No data

Skin : No data

Inhalation : No data

. **Skin corrosion/irritation** : slight irritation

. **Serious eye damage/ eye irritation** : No data

. **Respiratory sensitization** : Not available

. **Skin sensitization** : No data

. **Carcinogenicity** : Not available

. **Germ cell mutagenicity** : Not available

. **Reproductive toxicity** : No data

. **Specific target organ toxicity (single exposure)** : No data

. **Specific target organ toxicity (repeated exposure)** : No data

. **Aspiration hazard** : Not available

**c. Numeric measure of toxicity(acute toxicity estimation)** : No data

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**12. EFFECTS ON THE ENVIRONMENT**

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**a. Aquatic and terrestrial ecotoxicity**

Fish : LC50, 450mg/l, 96hr

Daphnia : : EC50, 450mg/l, 48hr, cladoceran

Algae : ErC50, 1000mg/l , 72hr, chlorophyta

**b. Persistence and degradability**

Persistence : No data

Degradability : No data

**c. Bioaccumulation**

Biodegradability : BCF 2.3

Condenasability : 60% 6 days

d. **Mobility in Soil** : Koc 575.44

e. **Other adverse effects** : No data

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### 13. DISPOSAL CONSIDERATIONS

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#### a. Disposal methods

Dispose in accordance with all applicable federal, state and local laws and regulations.

#### b. Precautions for disposal (Including the disposal method of contaminated container and packages)

Dispose in accordance with all applicable federal, state and local laws and regulations.

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### 14. TRANSPORT INFORMATION

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a. **UN number** : No data

b. **UN proper shipping name** : No data

c. **Transport hazard classes** : No data

d. **Packing group** : No data

e. **Marine pollutant(yes/no)** : no

f. **Information on any special precautions, which a user needs to be aware of, or needs to comply with in connection with transport** : No data

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### 15. REGULATORY INFORMATION

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a. **Industrial Safety and Health Law** : Not regulated

b. **Chemical Control Law** : Not regulated

c. **Dangerous Substance Safety Management Law** : Not regulated

d. **Wastes Management Law** : Not regulated

e. **Other regulations in domestic and foreign countries** : Not regulated

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### 16. OTHER INFORMATION

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#### a. Sources of reference materials

KOREA OCCUPATIONAL SAFETY & HEALTH AGENCY (KOSHA)

b. **The first date of preparation** : Nov. 27. 2009

c. **Number of revision times and the latest revision date**

. **Revision times** : 3

. **The latest revision date** : Jan.01.2015

d. **Reason of revision** : Toxic Chemical Control Law => Chemical Control Law