

Product name: SOFTANOL 70

## 1. Chemical product and company identification

**Product name: SOFTANOL 70**

Name of the supplier: NIPPON SHOKUBAI CO., LTD.  
 Address: Kogin Bldg., 4-1-1 Koraibashi, Chuo-ku, Osaka 541-0043 Japan  
 Charge section: Responsible Care Division  
 (TEL:81-6-6223-9166, FAX:81-6-6202-1766, E-MAIL:MSDS\_NSCL@shokubai.co.jp)  
 Emergency telephone number: Kawasaki Plant Environmental & Safety Department  
 (TEL:81-44-288-7366, FAX:81-44-288-8492)  
 Recommended use: Nonionic surfactants, Emulsifier, Defoaming agent, Spreader, Special detergent, Household and industrial detergents, Liquid detergent, Industrial application, (Textile, Agriculture, Pulp and Paper, etc.)  
 Scouring agent, Emulsion polymerization, Dispersant

## 2. Hazards identification

GHS classification	[Category]
Flammable liquids	Not classified
Acute toxicity, oral	Category 4
Acute toxicity, dermal	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/eye irritation	Category 1
Sensitization, skin	Not classified
Reproductive toxicity	Not classified
Hazardous to the aquatic environment, acute hazard	Category 2

GHS label elements  
 Pictograms:



Signal word: Danger  
 Hazard statement: Harmful if swallowed  
 Causes serious eye damage  
 Toxic to aquatic life

Precautionary statements:

Prevention Wash thoroughly hands and face after handling.  
 Do not eat, drink or smoke when using this product.  
 Avoid release to the environment.  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 Response Immediately call a POISON CENTER or doctor/physician.  
 Rinse mouth.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulation.

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Specific hazards: The product can be charged with static electricity.

### 3. Composition/information on ingredients

Substance or mixture: Substance

Chemical name	Content wt. %	CAS number
Polyoxyethylenealkylether	99-100	84133-50- 6

### 4. First-aid measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
Get medical advice/attention.

Skin contact: Immediately wipe away the attached material with cloths and the like rapidly.  
Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advice/attention.

Eye contact: Wash the eyes with clean water for at least several minutes (desirably 15 minutes or longer), (Remove the contact lenses if possible.) and get medical attention by an eye specialist immediately. During washing, fully open the eyelid with fingers and wash in such a way as to let water reach to every corner of the eyeball and eyelid.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

### 5. Fire-fighting measures

Extinguishing media: Chemical powder extinguisher, aqueous liquid foam (alcohol resistance foam) fire extinguishing media, carbon dioxide, sand, atomized water.

Unsuitable extinguishing media: Straight stream water.

Specific hazards: At the time of fire, hazardous gases (carbon monoxide and others) can be generated.

Specific extinguishing methods: Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). Cool container with water spray.  
Fight fire with normal precautions from a reasonable distance.  
In case of fire in the surroundings, move the content/container to the safety place. If it is not possible to move, cool the content/container with water spray.

Precautions for fire-fighters: During fire fighting work, wear proper protective equipment.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Promptly remove possible ignition sources from the vicinity.

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Environmental precautions: Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Do not flush to sewer or allow to enter waterways.

Surround this product with sandbags and earth/sand and cover it with an antistatic sheet to prevent diffusion (of smell).

Methods and materials for containment and cleaning up: Absorb this product with inactive materials (example: dry sand, earth) and recover it into a waste material container by using a spark-resistant tool. In the case of large amount, stop leakage with earth/sand to begin with, and, then, recover it.

## 7. Handling and storage

### Handling

Technical measures: During handling, be sure to wear proper protective equipment (refer to the section 8).  
This product can be charged with static electricity. Take countermeasures for static electricity removal (grounding, others). Wear antistatic clothes and antistatic shoes to prevent human body electrification.  
Use explosion-proof electrical/ventilating/lighting equipment.  
Use only non-sparking tools.  
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Do not handle the containers harshly in such a way as to make them tumbled, dropped, given a shock, or dragged.

Local/total ventilation: Use the ventilation equipment described in Section 8.  
Use only in well-ventilated areas.

Precautions: Not especially.

Precautions for safe handling: Not especially.

### Storage

Storage conditions: Keep away from heat.  
Keep away from sources of ignition - No smoking.  
Protect from sunlight. Store in a well-ventilated place.

Packaging material: Stainless steel or polyethylene container  
Store in tightly closed container.

## 8. Exposure controls and personal protection

Engineering controls: Install eye and body washing facilities near the handling place.  
Use closed equipment/machinery or use local ventilation equipment.

### Permissible concentration

Chemical name	ACGIH		U. S. -OSHA	
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-STEL
Polyoxyethylenealkylether	-ppm -mg/m <sup>3</sup>	-ppm -mg/m <sup>3</sup>	-ppm -mg/m <sup>3</sup>	-ppm -mg/m <sup>3</sup>

### Personal protective equipment

Respiratory protection: Not necessary under normal handling conditions.

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Hand protection:	Organic solvent impermeable protective gloves (Antistatic ones are desirable.) Rubber or chemical resistant gloves
Eye protection:	Protective glasses, goggle, protective face shield
Skin and body protection:	Organic solvent impermeable protective clothes, protective shoes (Antistatic ones are desirable.) When liquid is being splashed, wear rubber or vinyl apron and rubber boots.

## 9. Physical and chemical properties

[Chemical product]

Physical state:	Liquid
Form:	Liquid (30°C) (Viscosity 87mPa·s (25°C) )
Color:	Slightly yellow clear
Odor:	Mild characteristic odor
Odor threshold:	No data
pH:	6-7 (at 5% aq. sol.)
Melting point/freezing point:	-3(°C) (Pour point)
Boiling point, initial boiling point and boiling range:	>=250(°C) (101.3kPa)
Flashpoint:	220(°C) Cleveland Open Cup
Auto-ignition temperature:	None
Upper/lower flammability or explosive limits:	No data
Vapor pressure:	<=133(Pa) (20°C)
Evaporation rate:	No data
Specific gravity:	(Density:g/cm <sup>3</sup> ) 1.023 (25°C)
Solubility:	water : Soluble ethanol : Soluble (Soluble in alcohol)
n-Octanol/water partition coefficient:	No data
Decomposition temperature:	No data

## 10. Stability and reactivity

Stability:	Stable at ambient temperatures and pressures. No reactivity with water.
Hazardous reactions:	No data available.
Conditions to avoid:	No data available.
Incompatible materials:	No data available.
Hazardous decomposition products:	No data available.

## 11. Toxicological information

[Chemical product]

Acute toxicity, oral:	LD50: 1900 mg/kg[rat]
Acute toxicity, dermal:	LD50:> 2000 mg/kg[rat]

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Acute toxicity, inhalation:	No data
Skin corrosion/irritation:	"Not irritating" the classification criteria (Commission Directive 93/21/EEC of April 1993) [rabbit]
	"Not irritating" (0.6% aq. sol., closed patch test) [human]
Eye damage/irritation:	"EU R41" based on the classification criteria (Commission Directive 93/21/EEC of April 1993). In 1 of 3 tested animals, positive responses (corneal opacity 1.0) were not reversed in 21 days. [rabbit]
Sensitization, respiratory:	No data
Sensitization, skin:	Negative [guinea pig] (Data of SOFTANOL90)
Reproductive cell mutagenicity:	Ames Test: Negative
Carcinogenicity:	Not established on IARC, NTP, EU, OSHA.
Reproductive toxicity:	NOAEL 1600ppm [rat] (Data of SOFTANOL90)
Aspiration hazard:	No data

## 12. Ecological information

[Chemical product]

Ecotoxicity

Acute hazard (Fish):	LC50 (96hr): 12 mg/L [Oryzias latipes]
Acute hazard (Crustacea):	LC50 (96hr): 2.6 mg/L [C. marinus]
	LC50 (96hr): 1.2 mg/L [M. bahia (Americamysis bahia)]
Acute hazard (Algae or other aquatic plants):	No data
Persistence and degradability:	biodegradation readily degradable (Degradability > 99% / JIS K3363-1990)
	BOD5 710 ppm (1000 ppm water solution conversion)
Bioaccumulative potential:	No data

## 13. Disposal considerations

Disposal methods: When waste materials and waste water are to be treated, collect them into specified containers and entrust the disposal to a disposal contractor having an industrial waste disposal contractor permit.

The waste water can be treated also by an activate sludge method

Do not use the used containers for other purposes like filling other substances. Be sure to dispose of them after treating the content according to the above description. In case of recycling the container, return the container as it is after fitting a stopper without filling anything into it.

## 14. Transport information

IMDG	UN classification :	Not applicable
	UN number :	Not applicable
	Proper shipping name :	Not applicable
	Packing group :	Not applicable
Marine pollutant:		Not applicable
Special precautions:		Transport the material in accordance with the regulations in your country or region.

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## 15. Regulatory information

Japan (ENCS) : Listed  
 EU - REACH (1907/2006) : Not applicable  
 U.S. - CERCLA/SARA : Not applicable  
 U.S. - OSHA : Not applicable  
 USA (TSCA) : Listed  
 Philippines (PICCS) : Listed

### Registration

EU (REACH) : Pre-registered  
 China (IECSC) : Listed  
 EU (EINECS) : Not listed  
 New Zealand (NZIoC) : Listed  
 Korea (KECL) : Listed  
 Australia (AICS) : Listed  
 Canada (DSL) : Listed

U.S. - TSCA (Toxic Substances Control Act) :

Not applicable

### Inventory

Load the containers in such a way as not to fall down, tumble, or being damaged.

Cover the loaded cargo to prevent direct sunlight.

## 16. Other information

Disclaimer : •The described information has been prepared based on the latest materials, information, and other data available at the time of preparation; however, it does not intend to guarantee anything like contents, physical/chemical properties, and danger/hazards. Also, the cautions have been prepared for ordinary handling; therefore, for special handling, it is the obligation of each user of the product to take proper measures suitable for each handling condition. Take enough care for such matters.

•Concerning the GHS Classification described in Section 2, the health and environmental hazards are based on "Classification of chemicals based on GHS JIS Z7252:2009" and the physical hazards are based on "Globally Harmonized System of Classification and Labelling of Chemicals(GHS) third revised edition". The hazards not described there correspond to "Out of categories" or "Classification not possible".

•Regulatory information with regard to this substance in your country or region should be examined by your own responsibility.