

Product name: SOFTANOL 50

1. Chemical product and company identification

Product name: SOFTANOL 50

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	Not classified
Acute toxicity, dermal	Not classified
Skin corrosion/irritation	Not classified
Serious eye damage/eye irritation	Category 2A
Sensitization, skin	Category 1
Reproductive toxicity	Not classified
Hazardous to the aquatic environment, acute hazard	Category 1

GHS label elements
 Pictograms:



Signal word: Warning
 Hazard statement: Causes serious eye irritation
 May cause allergic skin reaction
 Very toxic to aquatic life

Precautionary statements:

Prevention Avoid breathing dust/fume/gas/mist/vapours/spray.
 Wash thoroughly hands and face after handling.
 Contaminated work clothing should not be allowed out of the workplace.
 Avoid release to the environment.
 Wear protective gloves/protective clothing/eye protection/face protection.

Response Wash contaminated clothing before reuse.
 Collect spillage.
 IF ON SKIN: Wash with plenty of soap and water.
 IF IN EYES: Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 If skin irritation or rash occurs: Get medical advice/attention.

SAFETY DATA SHEET

Document number: KPI-1329-00-03

Date prepared: 1995/05/25

Date revised: 2013/09/09

Product name: SOFTANOL 50

If eye irritation persists : Get medical advice/attention.
 Disposal Dispose of contents/container in accordance with
 local/regional/national/international regulation.

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

5. Fire-fighting measures

Extinguishing media: Chemical powder extinguisher, foam fire extinguishing media, carbon dioxide, sand

Unsuitable extinguishing media: Straight stream water.
 Spattering of flammable liquid may result from spraying 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

SAFETY DATA SHEET

Document number: KPI-1329-00-03

Date prepared: 1995/05/25

Date revised: 2013/09/09

Product name: SOFTANOL 50

Personal precautions, protective equipment and emergency procedures:	Promptly remove possible ignition sources from the vicinity. Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Environmental precautions:	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	Not established	Not established	Not established	Not established

Personal protective equipment

SAFETY DATA SHEET

Document number: KPI-1329-00-03

Date prepared: 1995/05/25

Date revised: 2013/09/09

Product name: SOFTANOL 50

Respiratory protection: Not necessary under normal handling conditions.
 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 (25°C) (Viscosity:33 mPa·s(25°C))
 Color: Slightly yellow clear
 Odor: Mild characteristic odor
 Odor threshold: No data
 pH: 6-7 (5%aq. sol.)
 Melting point/freezing point: -24(°C) (Pour point)
 Boiling point, initial boiling point and boiling range: >=250(°C) (101.3kPa)
 Flashpoint: 208(°C)Cleveland Open Cup
 Auto-ignition temperature: None
 Upper/lower flammability or explosive limits: No data
 Vapor pressure: <=133(Pa) (20°C)
 Vapor density: No data
 Evaporation rate: No data
 Specific gravity: (Density:g/cm3)0.969 (20°C)
 Solubility: water : Slightly soluble (Emulsification)
 ethanol : Soluble (Soluble in alcohol)
 acetone : Soluble (Soluble in hydrocarbon)
 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

SAFETY DATA SHEET

Document number: KPI-1329-00-03

Date prepared: 1995/05/25

Date revised: 2013/09/09

Product name: SOFTANOL 50

[Chemical product]

Acute toxicity, oral:	LD50: 5100 mg/kg[rat]
Acute toxicity, dermal:	LD50:> 2000 mg/kg[rat] (SOFTANOL 30)
Acute toxicity, inhalation:	No data
Skin corrosion/irritation:	Not irritating [human] (0.6%aq.sol. closed patch test) Not irritating based on the classification criteria (Commission Directive 93/21/EEC of April 1993)[rabbit]
Eye damage/irritation:	In 2 of 3 tested animals positive responses(corneal opacity 1.0 conjunctival redness 2.0) were produced and which fully reversed in 14days [rabbit]
Sensitization, respiratory:	No data
Sensitization, skin:	Positive LLNA [mouse] (SOFTANOL 30)
Reproductive cell mutagenicity:	Ames Test:Negative (SOFTANOL30 70 90 120)
Carcinogenicity:	IARC:Not listed NTP:Not listed EU:Not listed Japan Society for Occupational Health:Not listed OSHA:Not listed
Reproductive toxicity:	(NOAEL 1600ppm[rat]) (SOFTANOL 90)
Specific target organ toxicity (Single exposure):	No data
Specific target organ toxicity (Repeated exposure):	No data
Aspiration hazard:	No data

12. Ecological information

[Chemical product]

Ecotoxicity	
Acute hazard (Fish):	LC50(48hr): 3.3 mg/L[Oryzias latipes] [SOFTANOL 70] LC50(48hr): 8.8 mg/L[Oryzias latipes] [SOFTANOL 70]
Acute hazard (Crustacea):	LC50(96hr): 0.62 mg/L[Ganmmarus limnaeus] [SOFTANOL 30] LC50(96hr): 0.73 mg/L[Mysidopsis bahia(Americamysis bahia)] [SOFTANOL 30]
Acute hazard (Algae or other aquatic plants):	No data
Persistence and degradability:	Readily biodegradable (>97%/JIS K3363-1990)
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

Product name: SOFTANOL 50

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 :	Class9
	UN number :	3082
	Proper shipping name :	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N. O. S.
	Packing group :	III
Marine pollutant:		applicable
Special precautions:		Transport the material in accordance with the regulations in your country or region. Load the containers in such a way as not to fall down, tumble, or being damaged. Cover the loaded cargo to prevent direct sunlight.

15. Regulatory information

EU - REACH (1907/2006) :	Not applicable
U. S. - CERCLA/SARA :	Not applicable
U. S. - OSHA :	Not applicable
U. S. - TSCA (Toxic Substances Control Act) :	Not applicable
Inventory	
Japan (ENCS) :	Listed
Korea (KECL) :	Listed
Australia (AICS) :	Listed
Canada (DSL) :	Listed
China (IECSC) :	Listed
EU (EINECS) :	Not listed
New Zealand (NZIoC) :	Listed
USA (TSCA) :	Listed
Philippines (PICCS) :	Listed
Registration	
EU (REACH) :	Pre-registered
Restriction at export (Japan) :	Not applicable

16. Other information

SAFETY DATA SHEET

Document number: KPI-1329-00-03

Date prepared: 1995/05/25

Date revised: 2013/09/09

Product name: SOFTANOL 50

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.