

1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Product identifier

Product name: KF-640 (MAKUPIKA)

1.2. Relevant identified uses of the substance or mixture

Surfactant

1.3. Details of the supplier of the safety data sheet:

Manufacturer:

Company Name; ISHIHARA SANGYO KAISHA, LTD.

Address; 3-15 EDOBORI, 1-CHOME, NISHI-KU, OSAKA, 550-0002

JAPAN

Phone Number: +81-6-6444-7154 Facsimile Number: +81-6-6444-7156

1.4. Emergency phone number:

ISHIHARA SANGYO KAISHA, LTD.

Phone Number: +81-6-6444-7154

2. HAZARDS IDENTIFICATION

2.1. GHS Classification

Physical Hazards:	
Explosives	Not applicable
Flammable gases	Not applicable
Flammable aerosols	Not applicable
Oxidizing gases	Not applicable
Gases under pressure	Not applicable
Flammable liquids	Not classified
Flammable solids	Not applicable
Self-reactive substances and mixtures	Not applicable
Pyrophoric liquids	Not classified
Pyrophoric solids	Not applicable
Self-heating substances and mixtures	Classification not possible
Substances and mixtures which, in	Not classified
contact with water, emit flammable gases	
Oxidizing liquids	Classification not possible
Oxidizing solids	Not applicable
Organic peroxides	Not applicable
Corrosive to metals	Classification not possible
Health Hazards :	
	Not classified
Acute toxicity (oral)	
Acute toxicity (dermal)	Not classified
Acute toxicity (inhalation : gases)	Not applicable
Acute toxicity (inhalation : vapor)	Classification not possible
Acute toxicity (inhalation : dusts)	Not applicable
Acute toxicity (inhalation : mists)	Classification not possible
Skin corrosion/ irritation	Not classified
Serious eye damage/ eye irritation	Category 2B
Respiratory sensitization	Classification not possible
Skin sensitization	Not classified

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Germ cell mutagenicity	Classification not possible
Carcinogenicity	Classification not possible
Reproductive toxicity	Classification not possible
Specific target organ toxicity	Not classified
-Single exposure	
Specific target organ toxicity	Classification not possible
-Repeated exposure	
Aspiration hazards	Classification not possible
Environmental Hazards :	
Acute aquatic toxicity	Category 2
Chronic aquatic toxicity	Category 2
Hazardous to the ozone layer	Classification not possible

2.2. GHS label elements, including precautionary statements.

Pictograms or hazard symbols:



Signal word: Warning

Hazard statements:

H320 Causes eye irritation H401 Toxic to aquatic life

H411 Toxic to aquatic life with long lasting effects

Precautionary statements:

Prevention

About the safety measures, refer to "7. HANDLING AND STORAGE", "8. EXPOSURE CONTROLS/ PERSONAL PROTECTION"

P264 Wash hands thoroughly after handling. P273 Avoid release to the environment.

Response

About the First-aid measures, refer to "4. FIRST-AID MEASURES", "5. FIRE-FIGHTING MEASURES"

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.

P391 Collect spillage.

Storage

About the Handling and storage, refer to "7. HANDLING AND STORAGE"

Disposal considerations

About the Disposal considerations, refer to "13. DISPOSAL CONSIDERATIONS"
P501 Dispose of contents/container in accordance with

governmental and local regulations.

2.3 Other hazards

None

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical identity

Substance or Mixture: Substance

<u>Chemical name</u> <u>Content</u> <u>CAS Registry No.</u>
Polyether-modified organopolysiloxane 100% 117272-76-1

4. FIRST-AID MEASURES

4.1. First-aid measures

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

lenses, if present and easy to do. Continue rinsing.

IF ON SKIN : Wash with plenty of water and soap.

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

IF INHALED : Remove person to fresh air and keep comfortable for breathing.

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

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

4.2. Most important symptoms and effects, both acute and delayed:

No data available.

4.3. Indication of any immediate medical attention and special treatment needed:

No data available.

FIRE-FIGHTING MEASURES

5.1. Extinguishing Media:

BC powder, CO₂, Polyvalent foam or Water spray

- 5.2. Specific Hazards: Release of toxic fumes by heating and burning.
- 5.3. Advice for Firefighters

Absorb spills onto sand or any suitable absorbent material. Chemical eye goggles, rubber gloves, a laboratory coat or apron should be worn while handling this chemical.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions:

Do not inhale mist. Avoid contact with the skin, eyes and clothing.

6.2. Environmental Precautions:

Do not release into the environment.

6.3. Methods for Cleaning Up:

Scoop up spills and place in a waste chemical container for disposal. Chemical eye goggles, rubber gloves, and laboratory coat or apron should be worn while handling this chemical.

7. HANDLING AND STORAGE

7.1. HANDLING: Wash the hands thoroughly after handling.

Wear eye protection/face protection. Avoid release to the environment.

Handle this chemical in work areas with adequate local exhaust ventilation.

Wear the protection goods to avoid contact with skin, eyes, or clothing.

7.2. STORAGE: Store in a cool and dark place, in air-tight bag or containers. Do not

store near a heat source or open flame.

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7.3 Specific end use(s):

See information supplied by the manufacturer for the identified use(s)

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters: Not established.

8.2. Engineering Measures:

Good industrial hygiene practice (GIHP) dictates that indoor work areas should be isolated and provided with adequate local exhaust ventilation.

8.3. Personal Protective Equipment

Respiratory protection:

NIOSH-approved positive pressure self-contained breathing apparatus (SCBA), positive pressure airline respirator or respirator equipped with an organic vapor cartridge.

Hand protection : Rubber gloves

Eye protection : Safety glasses, goggles, face shield

Skin and body protection:

A laboratory coat, apron or boots should be worn while handling this

chemical.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Physical State : Liquid (Fluid)

9.2. Color : Light-yellow, transparent

9.3. Boiling Point : No data available
9.4. Melting Point : No data available
9.5. Vapor Pressure : Negligible (25 °C)

9.6. Flash Point : 178 °C (open cup), >94 °C (closed cup)

9.7. Auto-ignition : No data available9.8. Explosion Properties: No data available

9.9. Specific Gravity: 1.02 (25 °C)

9.10. Evaporation Rate: Negligible (Butyl Acetate = 1)

9.11. Solubility in Water: Soluble

9.12. Odor : Polyether odor 9.13. Log Pow : No data available

9.14. pH : 5-7

9.15. Viscosity : 22mm²/s (25°C)

10. STABILITY AND REACTIVITY

10.1. Reactivity : No data available.

10.2. Stability : Material is stable under normal conditions.

10.3. Conditions and Materials to Avoid: None

10.4. Hazardous Decomposition Products:

Thermal breakdown of this product during fire or very high hear condition may evolve the following hazardous decomposition product: Carbon oxides and traces of incompletely burned carbon compounds.

Silicon dioxide. Formaldehyde.

10.5. Hazardous Polymerization:

Will not occur

10.6. Possibility of hazardous reactions:

No data available

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11. TOXICOLOGICAL INFORMATION

11.1. Acute Oral Effects:

LD₅₀ (rat) >2000 mg/kg

11.2. Acute Dermal Effects:

LD₅₀ (rat) >4000 mg/kg

11.3. Acute Inhalation Effects: No data available 11.4. Skin Effects: Non-irritant to skin (rabbit)

11.5. Eye Effects : Moderate irritant to eyes (rabbit)

11.6. Contact Sensitization:

Respiratory: No data available

Skin: Non-sensitizing

11.7. Mutagenicity : No data available

11.8. Carcinogenicity: No data available

11.9. Reproductive Toxicity:

Ames test; Negative.

11.10. Specific target organ toxicity -Single exposure:

No data available

11.11. Specific target organ toxicity -Repeated exposure:

No data available

11.12. Aspiration hazard: No data available

12. ECOLOGICAL INFORMATION

12.1. Aquatic organism toxicity:

Acute aquatic toxicity:

Carp : LC_{50} 4.2mg/L (96h)
Daphnia magna : EC_{50} 15 mg/L (48h)
Pseudokirchneriella subcapitata : EbC_{50} 7 mg/L (72h)

 ErC_{50} >16 mg/L (72 h)

Chronic aquatic toxicity:

Carp : NOEC 3.2mg/L (96h)
Daphnia magna : NOEC 5.6 mg/L (48h)
Pseudokirchneriella subcapitata : NOEC 2mg/L (72h)

12.2. Persistence and degradability:

No data available

12.3. Bioaccumulative potential:

No data available

12.4. Mobility in soil : No data available

12.5. Hazardous to the ozone layer: No data available

13. DISPOSAL CONSIDERATIONS

13.1. Disposal methods:

Products: Dispose of contents/container in accordance with governmental and

local regulations.

Can be burned in a chemical incinerator equipped with an afterburner

and scrubber.

Packaging/Container:

Dispose of at an approved site. Incinerate at a licensed installation.

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14. TRANSPORT INFORMATION

UN number : 3082

UN proper shipping name: Environmentally hazardous substances, liquid, n.o.s.

(Polyether modified organopolysiloxiane)

Transport hazard class : 9

Packing group : III

Environmental hazards : Environmentally hazardous substance mark – yes

15. REGULATORY INFORMATION

Comply with governmental and local regulations.

International inventories:

EINECS Status : On the inventory, or in compliance with the act.

AICS Status : On the inventory, or in compliance with the act.

DSL Status : On the inventory, or in compliance with the act.

ENCS (JP) Status : On the inventory, or in compliance with the act.

KECI (KR) Status : On the inventory, or in compliance with the act.

PICCS (PH) Status : On the inventory, or in compliance with the act.

IECSC (CN) Status : On the inventory, or in compliance with the act.

16. OTHER INFORMATION

All information contained in this Safety Data Sheet is furnished free of charge and intend for your evaluation. In our opinion, the information is, as of the date of this Safety Data Sheet, reliable; however, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional or variable conditions or circumstances exist or because of applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information gathered by you; and you must make independent determinations of the suitability and completeness of the information from all sources to assure both proper use of the material described herein and the safety and health of employees. Accordingly, no guarantee expressed or implied is made by Ishihara Sangyo Kaisha, Ltd. as to the results to be obtained based upon our use of the information, nor does Ishihara Sangyo Kaisha, Ltd. assume any liability arising from your use of the information.

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