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Revision date:2019/02/25
Date of enactment:2008/12/16
Version:3.3

SAFETY DATA SHEET

1. Chemical product and company identification

Trade name	:	OLFINE E1004
Substance name	:	Surfactant composition
Company/undertaking identification	:	Nissin Chemical Industry Co., Ltd.
Zip code	:	101-0047
Street	:	5-13, Uchikanda 1-chome, Chiyoda-ku, Tokyo, Japan
Tel	:	+81-3-3295-3931
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Department name	:	Quality Assurance Group/Environmental & Quality Management Division
Tel	:	+81-778-22-9998
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2. Hazards identification

GHS classification

Physical hazards	:	Explosive / Classification not possible
	:	Flammable gases / Not applicable
	:	Flammable aerosol / Classification not possible
	:	Oxidising gases / Not applicable
	:	Gases under pressure / Not applicable
	:	Flammable liquids / Not classified
	:	Flammable solids / Not applicable
	:	Self-reactive substances and mixtures / Classification not possible
	:	Pyrophoric liquids / Classification not possible
	:	Pyrophoric solids / Not applicable
	:	Self-heating substances and mixtures / Classification not possible
	:	Substances and mixtures which in contact with water emit flammable gases / Classification not possible
	:	Oxidising liquids / Classification not possible
	:	Oxidising solids / Not applicable

	:	Organic peroxide / Classification not possible
	:	Corrosive to metals / Classification not possible
Health hazards	:	Acute toxicity (oral) / Classification not possible
	:	Acute toxicity (dermal) / Classification not possible
	:	Acute toxicity (inhalation:gas) / Classification not possible
	:	Acute toxicity (inhalation:vapour) / Classification not possible
	:	Acute toxicity (inhalation:dust,mist) / Classification not possible
	:	Skin corrosion/irritation / Not classified
	:	Serious eye damage/eye irritation / Category 2A
	:	Respiratory sensitisation / Classification not possible
	:	Skin sensitisation / Classification not possible
	:	Germ cell mutagenicity / Classification not possible
	:	Carcinogenicity / Classification not possible
	:	Reproductive toxicity / Classification not possible
	:	Specific target organ toxicity (single exposure) / Classification not possible
	:	Specific target organ toxicity (repeated exposure) / Classification not possible
	:	Aspiration hazard / Classification not possible
Environmental hazards	:	Hazardous to the aquatic environment - Acute Hazard / Classification not possible
	:	Hazardous to the aquatic environment - Chronic Hazard / Classification not possible
	:	Hazardous to the ozone layer / Classification not possible
Hazard pictograms		
		GHS07
GHS Signal word	:	Warning
Hazard statements	:	Causes serious eye irritation (H319)
[Prevention precautionary statements]	:	Wash hands thoroughly after handling. (P264) Wear protective gloves, protective clothing, eye protection, face protection. (P280) Avoid release to the environment. (P273)
[Response Precautionary Statements]	:	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338) If eye irritation persists: Get medical advice/attention. (P337+P313) If on skin, if in eyes, if swallowed, and if inhaled, immediately call a doctor. (P310)

Get medical advice/attention if you feel unwell. (P314)

[Storage precautionary statements] : Store in a well-ventilated place. Keep cool. (P403+P235)

[Disposal precautionary statements] : Dispose of contents/container in accordance with local/regional/national/international regulations. (P501)

3. Composition/information on ingredients

Generic name : Surfactant composition

Name	Concentration	Kanpo number		CAS No
		CSCL No	ISHL No	
Surfactants	100%	Listed	Existing	Listed

4. First aid measures

First-aid measures after inhalation : Remove the sufferers to fresh air places immediately. If breathing has stopped or is labored, give artificial respiration, and get medical advices.

First-aid measures after skin contact : Take off contaminated clothes, shoes and socks. And wash sticking parts off with soap and plenty of water. If the external changes are observed or the symptoms such as irritation or itchy appears, get medical advices immediately.

First-aid measures after eye contact : Rinse immediately inner side of eyelid with plenty of water more than 20 minutes. Remove the contact lenses if possible. Get medical advices,If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth thoroughly with water and get medical attention immediately,Never give anything through mouth to a patient if he is unconscious. Turn a patient's head to the side for preventing suffocation by vomit.

5. Fire fighting measures

Suitable extinguishing media : Carbon dioxide (CO2),Dry chemical,Fire foam,Water mist

Unsuitable extinguishing media : Water.

Personal protection (Emergency response) : As gasses such as carbon dioxide, carbon monoxide, smoke are generated by high temperature at fire, wear a self-contained breathing apparatus, etc.

Protection during firefighting : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Other information : Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding

environment. In the event of fire and/or explosion do not breathe fumes. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General measures	:	Clear off ignition sources and work from windward Wear suitable protective goggles, boots, gloves, body suits to avoid contact with droplet, etc and inhalation of mist, gas, etc.
Environmental precautions	:	Take care that the released Products do not inflow into the water-courses nor dirty water flows out to the environment.

Methods and Equipment for Containment and Cleaning up

For containment	:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).Keep in suitable, closed containers for disposal.
Methods for cleaning up	:	When the releasing materials are small, cover with dry sand, dirt, sawdust and/or the like, rake up with shovels or brooms and recover into the containers being stoppled tightly When the releasing materials are large, vacuum and recover with a pump, etc Clean up the surroundings of the releasing area with water after recovery and recover the contaminated water as well.
Prevention Measures for Secondary Accidents	:	Remove immediately all ignition source and prepare fire extinguish agents. Use safe tools which do not spark.

7. Handling and storage

Handling

Technical measures	:	Emergency showers and eye wash stations should be readily accessible Take precautionary measures aginst electrostatic discharge. Open flames prohibited.
Precautions for safe handling	:	Comply with practice rules established by the Government As the Product has fear of precipitating or solidifying under low temperature(not exceeding 5℃), the Product is applied after warming, melting and stirring well in the case.
Prevents handling of incompatible substances or mixtures	:	Wear suitable personal protecting tools, if there are dangers of inhalation of vapor and mist or contact to skin or eye(s).

Storage precautionary statements

Storage conditions	:	Store with a tight stopper at cool and dark places.
Technical measures	:	Store the Product at a well ventilated place where is isolated from thermal sources and strong oxidizers.
Material used in packaging/containers	:	Keep oil tins dry because oil tins may form rust by wet with water and so on.
Incompatible materials	:	Strong oxidizers (perchlorates, nitrates, peroxides),Reactive metals. (sodium,calcium, zinc, etc.),Dehydrating agent

8. Exposure controls / Personal protection equipment

Japan administration level	:	No data available
Exposure limits (JSOH)	:	No data available
Exposure limits (ACGIH)	:	No data available
Appropriate engineering controls	:	Install sufficient general ventilators and local exhaust equipments Express the place clearly where safety shower(s) and hand and eye washer(s) are equipped Applied tools and equipments should be static charge prevention style explosion-proof.
Respiratory protection	:	Use an air respirator at an emergency It is needless under normal conditions at well ventilated place
Hand protection	:	Wear protective gloves.(Neoprene Nitrile rubber)
Eye protection	:	Goggles Eye protection
Skin and body protection	:	protective clothing Choose appropriate protective clothes according to the concentration of the dangerous substance and the work circumstance
Materials for protective clothing	:	Use personal protective equipment against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective equipment with the manufacturer.
Environmental exposure controls	:	Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Avoid release to the environment. Refer to special instructions/ Safety data sheets.

9. Physical and chemical properties

Physical state	:	Liquid
Appearance	:	Light yellow ～Light brown

Odour	:	characteristic odor
pH	:	8.5 - 9.5
Melting point	:	No data available
Boiling point	:	No data available
Flash point	:	168 °C (Cleveland open-cup test)
Relative evaporation rate (butylacetate=1)	:	No data available
Flammability (solid, gas)	:	No data available
Explosive limits (g/m³)	:	No data available
Explosive limits (vol %)	:	No data available
Vapour pressure	:	No data available
Relative vapour density at 20 °C	:	No data available
Specific gravity density	:	0.98 - 1.00 g/cm³ 25℃
Log Pow	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	120 - 160 mPa.s

10. Stability and reactivity

Reactivity	:	No data available
Chemical stability	:	Prevent high temperature atmosphere, by which the degradation of the product is accelerated.
Possibility of hazardous reactions	:	In case of mix and contact with strong oxidizer, it may cause hazards such as fire or explosion.
Conditions to avoid	:	Heat,Fire
Incompatible materials	:	Reactive metals. (sodium,calcium, zinc, etc.),Strong oxidizer (perchlorates, nitrates, peroxides etc.),Peroxides,Dehydrating agents,Materials reacted with hydroxyl compounds
Hazardous decomposition products	:	The hazardous gasses such as carbon mono- and di-oxide and aldehyde group are generated at the Product's combustion,Heating above 65 C in the presence of strong base can produce flammable hydrocarbon residue.

11. Toxicological information

Acute toxicity (oral) - Description	:	No data available
Acute toxicity (dermal) - Description	:	No data available
Acute toxicity (gas) - Description	:	No data available

Acute toxicity (vapour) - Description	:	No data available
Acute toxicity (dust) - Description	:	No data available
Acute toxicity (mist) - Description	:	No data available
LC50 inhalation rat (mg/l)	:	No data available
Skin corrosion/irritation - Description	:	No data available
Serious eye damage/eye irritation - Description	:	This product is correspond to Serius eye damage /eye irritation Category 2A of GHS from result of similar product.
Skin sensitization - Description	:	No data available
Respiratory sensitization - Description	:	No data available
Germ cell mutagenicity - Description	:	No data available
Carcinogenicity	:	No data available
Reproductive toxicity - Description	:	No data available
Specific target organ toxicity (single exposure) - Description	:	No data available
Specific target organ toxicity (repeated exposure) - Description	:	No data available
Aspiration hazard - Description	:	No data available

12. Ecological information

Hazardous to Aquatic Environment - Acute Hazard	:	No data available
Hazardous to Aquatic Environment - Chronic Hazard	:	No data available
Ecotoxicity	:	No data available
Fish Toxicity / Other Toxicity	:	No information
Persistence and degradability	:	No information
Chemical oxygen demand (COD)	:	No data available
Bioaccumulative potential	:	No information
Ecology - soil	:	No information

Other information : It should not be allowed for the product to be run into drains, water courses or the soil.

13. Disposal considerations

Waste treatment methods : In accordance with local and national regulations. Do not dispose of waste into sewer. This material and its container must be disposed of as hazardous waste. Do not dispose of together with household waste.

Ecology - waste materials : Farm out to professional disposal treating traders in compliance with requirements of the nation and local governments.

Contaminated container and packaging : Farm out disposal of the contents and packaging materials to professional disposal treating traders in compliance with requirements of the nation and local governments

In case of disposal of empty container, dispose after complete removal in the container.

14. Transport information

International Regulations

UN-No. : Not applicable

Class (UN) : Not applicable

Regulations in Japan

Regulatory information by sea : Nonhazardous material

UN-No. : Not applicable

Class (UN) : Not applicable

Regulatory information by air : Nonhazardous material

Other information : At transportation, make sure of no leakage of packings, load the products without broken bags, falling, injury, etc., and prevent load

collapses surely.

15. Regulatory information

Regulatory reference

Country name	Inventory List	Listed/Not listed	Country name	Inventory List	Listed/Not listed
USA	TSCA	Listed	Korea	KECI	Listed
EU	EINECS	Listed	EU	REACH	*

Canada	DSL	Listed	People's Republic of China	IECSC	Listed
Australia	AICS	Listed	Philippines	PICCS	Listed
New Zealand	NZIoC	Listed	Taiwan	ECN	Listed

The Nissin Chemical Company is not able to check up the regulatory information in regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

* Please contact us to join our supply-chain when export this product to EU.

16. Other information

Data sources : Ref. 1.“Safety Data Sheet” by Raw Material Manufacturers. 2.GHS Fourth Revised Edition. 3.NITE GHS Results of the Classification

Other information : The Products was developed for general industries’ use. When applying to specific uses, it is hoped to confirm its safety by yourselves prior to the use. The description of this SDS is based upon materials, information and data which can be procured at present. However, we do not warrant any guarantee regarding the contents, physical and chemical properties, hazards and the like