

OLFINE AF-104



**Nissin Chemical Industry Co.,
Ltd.**

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SAFETY DATA SHEET




1. Chemical product and company identification

Trade name : OLFINE AF-104
Substance name : Surfactant composition
Company/undertaking : Nissin Chemical Industry Co., Ltd.
identification
Zip code : 101-0047
Street : 5-13, Uchikanda 1-chome, Chiyoda-ku, Tokyo, Japan
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Department name : Quality Assurance Group/Environmental & Quality Control Division
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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

Health hazards	<ul style="list-style-type: none"> : Corrosive to metals / Classification not possible : 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 / Category 2 : Serious eye damage/eye irritation / Category 1 : Respiratory sensitisation / Classification not possible : Skin sensitisation / Category 1 : Germ cell mutagenicity / Category 2 : Carcinogenicity / Classification not possible : Reproductive toxicity / Classification not possible : Specific target organ toxicity (single exposure) / Category 3 : Specific target organ toxicity (single exposure) / Category 3 : Specific target organ toxicity (repeated exposure) / Category 2 : Aspiration hazard / Classification not possible
Environmental hazards	<ul style="list-style-type: none"> : Hazardous to the aquatic environment - Acute Hazard / Category 3 : Hazardous to the aquatic environment - Chronic Hazard / Category 3 : Hazardous to the ozone layer / Classification not possible
Hazard pictograms	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>GHS05</p> </div> <div style="text-align: center;">  <p>GHS07</p> </div> <div style="text-align: center;">  <p>GHS08</p> </div> </div>
GHS Signal word	: Danger
Hazard statements	<ul style="list-style-type: none"> : Causes skin irritation (H315) : May cause an allergic skin reaction (H317) : Causes serious eye damage (H318) : May cause respiratory irritation (H335) : May cause drowsiness or dizziness (H336) : Suspected of causing genetic defects (H341) : May cause damage to organs through prolonged or repeated exposure (H373) : Harmful to aquatic life with long lasting effects (H412)
[Prevention precautionary statements]	<ul style="list-style-type: none"> : Obtain special instructions before use. (P201) : Do not handle until all safety precautions have been read and understood. (P202) : Do not breathe dust, fume, gas, mist, vapours, spray. (P260) : Wash hands thoroughly after handling. (P264)

Use only outdoors or in a well-ventilated area. (P271)
 Contaminated work clothing should not be allowed out of the workplace (P272)
 Avoid release to the environment. (P273)
 Wear protective gloves, protective clothing, eye protection, face protection. (P280)

- [Response Precautionary Statements] : IF ON SKIN: Wash with plenty of soap and water. (P302+P352)
 If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. (P304+P340)
 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 exposed or concerned: Get medical advice/attention (P308+P313)
 If on skin, if in eyes, if swallowed, and if inhaled, immediately call a doctor. (P310)
 Call a POISON CENTER or doctor/physician if you feel unwell. (P312)
 Specific treatment (P321)
 If on skin and if skin irritation occurs, seek medical advice and attention. (P332+P313)
 If skin irritation or rash occurs, Get medical advice and attention. (P333+P313)
 Take off contaminated clothing and wash it before reuse. (P362+P364)
- [Storage precautionary statements] : Store in a well-ventilated place. Keep container tightly closed. (P403+P233)
 Store locked up. (P405)
- [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	< 50%	Listed	Existing	Listed
Alcohols solvent(2-Ethyl-1-hexanol)	< 50%	Listed	Existing	Listed
Mineral oil	< 5%	Listed	Existing	Listed
Water	< 5%			7732-18-5

4. First aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where

- possible). Move out of dangerous area. Take off contaminated clothing and shoes immediately. Never give anything by mouth to an unconscious person.
- 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 : Water mist, Alcohol-resistant foam, Dry chemical, Carbon dioxide (CO₂)
- 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.
- 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 against electrostatic discharge.
Open flames prohibited.
- Precautions for safe handling : Comply with practice rules established by the Government.
- 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	: Liquid
Colour	: Light yellow ~Light brown
Melting point	: No data available
Boiling point	: 186 - 188 °C
Flash point	: 98 °C
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosive limits (g/m ³)	: No data available
Explosive limits (vol %)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available

Viscosity : No data available

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 : There are no available data about this products. There contain skin irritating materials belonging to the following Category. Category 2A: Alcohols solvent (<50%) Concentration limits of Category 2 is $\geq 10\%$. So, this product is correspond to Skin corrosion / irritation Category 2 of GHS.

Serious eye damage/eye irritation - Description : There are no available data about this product. There contain eye irritating materials belonging to the following Category. Category. Category 1: Surfactant (<50%) Category 2A: Alcohols solvent (< 50%) Concentration limits of Category 1 is $\geq 3\%$. this product is correspond to Serious eye damage /eye irritation Category 1 of GHS.

Skin sensitization - Description	:	There are no available data about this product. But, there contain Skin Sensitizer materials belonging to the following Category. Category 1 : Surfactant (<50%) Concentration limits of Category 1 is $\geq 1.0\%$. So, this product is correspond to Skin Sensitizer Category 1 of GHS.
Respiratory sensitization - Description	:	No data available
Germ cell mutagenicity - Description	:	There are no available data about this product. But, there contain Germ cell mutagenicity materials belonging to the following Category. Category 2: Mineral oil (<5%) Concentration limits of Category 2 is $\geq 1.0\%$. So, this product is correspond to Germ cell mutagenicity Category 2 of GHS.
Carcinogenicity	:	No data available
Reproductive toxicity - Description	:	No data available
Specific target organ toxicity (single exposure) - Description	:	There are no available data about this product. There contain Specific target organ toxicity (single exposure) materials belonging to the following Category. Category 3: Alcohols solvent (<50%) Concentration limits of Category 3 is $\geq 25\%$. So this product is correspond to Specific target organ toxicity (single exposure) Category 3.
Specific target organ toxicity (repeated exposure) - Description	:	There are no available data about this product. There contain Specific target organ toxicity (repeated exposure) materials belonging to the following Category. Category 1: Mineral oil (<5%) Concentration limits of Category 2 is $1.0\% \leq$ Concentration of Category 1 <10%. So, this product is correspond to Specific target organ toxicity (repeated exposure) Category 2 of GHS.
Aspiration hazard - Description	:	No data available
Other health hazard	:	No data available

12. Ecological information

Hazardous to Aquatic Environment - Acute Hazard	:	There are no available data about this product. There contain Hazardous to the aquatic environment (acute) materials belonging to the following Category. Category 3: Alcohols solvent (<50%) Surfactant (<50%). Concentration limits of Category 3 is $\geq 25\%$. So, this product is correspond to Hazardous to the aquatic environment (acute) Category 3 of GHS.
Hazardous to Aquatic Environment - Chronic Hazard	:	There are no available data about this product. There contain Hazardous to the aquatic environment (chronic) materials belonging to the following Category. Category 3: Surfactant (<50%). Concentration limits of Category 3 is $\geq 25\%$. So, this product is correspond to Hazardous to the aquatic environment (chronic) Category 3 of GHS.

Ecotoxicity	:	No data available
Fish Toxicity / Other Toxicity	:	No data available
Persistence and degradability	:	No data available
Chemical oxygen demand (COD)	:	No data available
Bioaccumulative potential	:	No data available
Ecology - soil	:	No data available
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

UN-No. : Not applicable

Class (UN) : Not applicable

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	No-Registered
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.

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.