

Safety Data Sheet

according to JIS Z 7253: 2019

Issue date: 2/19/2021 Version: 3.4 Revision date: 3/28/2025

1. Chemical product and company identification

Substance name : SILFACE SAG502

Recommended use of the chemical and restrictions on use

Recommended use : Additive

Restrictions on use General industrial use

Company information

Nissin Chemical Industry Co., Ltd.

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2. Hazards identification

GHS classification

Physical hazards classification not possible **Explosives**

> Flammable gases No classification

classification not possible Aerosol

Oxidizing gases No classification No classification Gases under pressure No classification Flammable liquids Flammable solids No classification

Self-reactive substances and

mixtures

classification not possible

classification not possible

Pyrophoric liquids

Pyrophoric solids No classification

Self-heating substances and

mixtures

classification not possible

Substances and mixtures which

in contact with water emit

flammable gases

classification not possible

Oxidizing liquids classification not possible

Oxidizing solids No classification

Organic peroxides classification not possible Corrosive to metals classification not possible

Desensitized explosives 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

classification not possible

(inhalation:vapours)

Acute toxicity

classification not possible

(inhalation:dust/mist)

Skin corrosion/irritation

classification not possible

Serious eye damage/eye

classification not possible

irritation

Respiratory sensitization

classification not possible

Skin sensitization

Carcinogenicity

classification not possible

Germ cell mutagenicity

classification not possible

Reproductive toxicity

classification not possible classification not possible

Specific target organ toxicity

classification not possible

(single exposure)

classification not possible

Specific target organ toxicity

(repeated exposure)

Aspiration hazard

classification not possible

Environmental

hazards

Hazardous to the aquatic

classification not possible

environment, short-term (acute)

Hazardous to the aquatic

classification not possible

environment, long-term

(chronic)

Hazardous to the ozone layer classification not possible

Precautionary statements

Prevention : Wear protective gloves, protective clothing, eye protection, face

protection. (P280)

Response : Immediately call a doctor. (P310)

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

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

Disposal : Dispose of contents/container in accordance with

local/regional/national/international regulations. (P501)

3. Composition/information on ingredients

Distinction of substance or

: Substance

mixture

Generic name Surfactant composition

Name	Concentration (%)	Reference number in the gazette list		CAS-No.
		CSCL No	ISHL No	
Surfactants	≈100	Undisclosed	Undisclosed	Undisclosed
Cyclotetrasiloxane, octamethyl-	< 0.3	(7)-475	Existing Chemical Substance	556-67-2
Dodecamethylcyclohexasil oxane	< 0.3	(7)-475	Existing Chemical Substance	540-97-6
Cyclopentasiloxane, decamethyl-	< 0.3	(7)-475	Existing Chemical Substance	541-02-6

4. First aid measures

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)

Unsuitable extinguishing

media

: Water

Fire hazard

Fire hazard : Under fire conditions, hazardous fumes or gas may be present.

Hazardous decomposition products in case of fire

: The hazardous gasses such as carbon mono- and di-oxide and aldehyde group are generated at the Product's combustion.

Firefighting instructions

Firefighting instructions : Cut off ignition sources to a fire origin and fight a fire employing a

suitable fire extinguishing agent.

Cool by water spray around the fire site to prevent the fire

extension.

Personal protection (Emergency response)

response)

Personal protection (Emergency : 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.

For emergency responders

Protective equipment : Wear suitable protective tools such as goggles, boots, gloves,

body suits and a self-contained breathing apparatus according to

circumstances to avoid inhalation of and direct contact with

materials in question.

Emergency procedures : Clear off all of ignition sources immediately.

Work from windward.

Stop release.

Environmental precautions

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 aginst electrostatic discharge.

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 10° C), 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).

Local and general ventilation : Handle the Product at the area installing local exhaust orwhole

ventilation facilities.

Storage

Storage conditions : Store with a tight stopper at cool and dark places.

Material used in : Keep oil tins dry because oil tins

packaging/containers may form rust by wet with water and so on.

Technical measures : Store the Product at a well ventilated place where is isolated from

thermal sources and strong oxidizers.

Incompatible materials : Strong oxidizers (perchlorates, nitrates, peroxides). Reactive

metals. (sodium, calcium, zinc, etc.). Dehydrating agent.

8. Exposure controls / Personal protection equipment

SILFACE SAG502		
Japan - Occupational Exposure Limits		
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.

Protective equipment

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.

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 style protective glasses

Skin and body protection : protective clothing, Choose appropriate protective clothes

according to the concentration of the dangerous substance and the

work circumstance.

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

Colour almost colourless to pale brown

Odour : Polyether odor рН : No data available Relative evaporation rate

(butylacetate=1)

No data available

Melting point : No data available Freezing point : No data available Boiling point : No data available

: 196 °C Flash point

: No data available Auto-ignition temperature Decomposition temperature : No data available Flammability : No data available No data available Vapour pressure Relative vapour density at No data available

20°C

Relative density : No data available Density : No data available : No data available Relative gas density : No data available Solubility Partition coefficient n-No data available

octanol/water (Log Pow)

Explosive limits (vol %) : No data available Explosive limits (g/m³) : No data available Viscosity, kinematic : No data available Minimum ignition energy No data available Particle size : No data available

10. Stability and reactivity

Reactivity : Stable under normal conditions.

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 : Strong oxidizer (perchlorates, nitrates, peroxides etc.). 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.

11. Toxicological information

No data available Acute toxicity (oral) : (as a product) Acute toxicity (dermal) : (as a product) No data available Acute toxicity (gas) -No data available : (as a product)

Description

Acute toxicity (vapour) -: (as a product) No data available

Description

Acute toxicity (dust, mist) -: (as a product) No data available

Description

Acute toxicity (mist) - : (as a product) No data available

Description

Skin corrosion/irritation : (as a product) No data available

Serious eye damage/irritation : (as a product) No data available

Respiratory sensitization : (as a product) No data available

Skin sensitization : (as a product) No data available

Germ cell mutagenicity : (as a product) No data available

Carcinogenicity : (as a product) No data available

Reproductive toxicity : (as a product) No data available

STOT-single exposure : (as a product) No data available

STOT-repeated exposure : (as a product) No data available

Aspiration hazard : (as a product) No data available

12. Ecological information

Ecotoxicity

Ecotoxicity : (as a product) No data available
Hazardous to the aquatic : (as a product) No data available

environment, short-term

(acute)

(deate)

Hazardous to the aquatic : (as a product) No data available

environment, long-term

(chronic)

Other information : It should not be allowed for the product to be run into drains,

water courses or the soil.

Persistence and degradability

Persistence and degradability : (as a product) No data available

Biochemical oxygen demand : (as a product) No data available

(BOD)

Chemical oxygen demand : (as a product) No data available

(COD)

Bioaccumulative potential

Bioaccumulative potential : (as a product) No data available

Partition coefficient n- : (as a product) No data available

octanol/water (Log Pow)

Mobility in soil

Mobility in soil : (as a product) No data available

Partition coefficient n- : (as a product) No data available

octanol/water (Log Pow)

Ecology - soil : (as a product) No data available

Hazardous to the ozone layer

Ozone : (as a product) No data available

Other adverse effects : No additional information available

13. Disposal considerations

Ecological waste information: Farm out to professional disposal treating traders in

compliance with requirements of the nation and local

governments.

Thermal disposal. On this occation, choose appropriate incineration facility because of silica powder preparation at incineration. And working stuff guard by protection equipment

like antidust mask.

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

Transport by sea(IMDG)

UN-No. (IMDG) : Not applicable
Proper Shipping Name (IMDG) Not applicable
Packing group (IMDG) : Not applicable
Transport hazard class(es) : Not applicable

(IMDG)

Air transport(IATA)

UN-No. (IATA) : Not applicable
Proper Shipping Name (IATA) : Not applicable
Packing group (IATA) : Not applicable
Transport hazard class(es) : Not applicable

(IATA)

Regulations in Japan

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

REACH SVHC : Contains a substance on the REACH candidate list in

concentration ≥ 0.1%: Cyclotetrasiloxane, octamethyl- (EC 209-136-7, CAS 556-67-2), Dodecamethylcyclohexasiloxane (CAS 540-97-6), Decamethylcyclopentasiloxane (CAS 541-02-

6)

16. Other information

Data sources : Ref. 1."Safety Data Sheet" by Raw Material Manufacturers.

2.GHS Sixth 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.

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