

Artificial sebum solution

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 9/8/2021 Revision date: 10/17/2023 SDS code: IB-11 Version: 02

Safety Data Sheet

1. Chemical product and company identification

Artificial sebum solution **Product name**

SDS code **IB-11**

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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Emergency number 06-6910-7305

Recommended use For research and experimental use only.

Restrictions on use Do not use on a human body or for animal medicines, foods, household

products, cosmetics, etc.

2. Hazards identification

GHS classification

Physical hazards Explosives classification not possible

> Flammable gases No classification

Aerosol classification not possible

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

Flammable solids classification not possible Self-reactive substances and classification not possible

mixtures

Pyrophoric liquids No classification Pyrophoric solids No classification

Self-heating substances and classification not possible

classification not possible

mixtures

Substances and mixtures which in contact with water emit flammable

gases

Oxidizing liquids No classification Oxidizing solids No classification

Organic peroxides classification not possible Corrosive to metals classification not possible Desensitized explosives classification not possible Acute toxicity (oral) classification not possible

Health hazards Acute toxicity (dermal) classification not possible Acute toxicity (inhalation:gas) classification not possible Acute toxicity (inhalation:vapors) classification not possible

> Acute toxicity (inhalation:dust/mist) classification not possible Skin corrosion/irritation classification not possible

Serious eye damage/eye irritation Category 2B

Respiratory sensitization classification not possible Skin sensitization classification not possible Germ cell mutagenicity classification not possible Carcinogenicity classification not possible Reproductive toxicity classification not possible

Specific target organ toxicity (single Category 3 (Respiratory tract irritation.)

exposure)

Specific target organ toxicity

(repeated exposure)

classification not possible

Aspiration hazard

classification not possible classification not possible

Environmental hazards

Hazardous to the aquatic environment, short-term (acute)

classification not possible

Hazardous to the aquatic environment, long-term (chronic)

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)



Signal word (GHS JP) : Warning

Hazard statements (GHS JP) : Causes eye irritation (H320)

May cause respiratory irritation (H335)

Precautionary statements (GHS JP)

Prevention : Avoid breathing dust/fume/gas/mist/vapors/spray. (P261)

Wash hands, forearms and face thoroughly after handling. (P264)

Use only outdoors or in a well-ventilated area. (P271)

Response : IF INHALED: Remove person to fresh air and keep 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)

Call a POISON CENTER or doctor if you feel unwell. (P312) If eye irritation persists: Get medical advice/attention. (P337+P313)

Storage : Store in a well-ventilated place. Keep container tightly closed.

(P403+P233)

Store locked up. (P405)

Disposal : Dispose of contents/container to hazardous or special waste collection

point, in accordance with local, regional, national and/or international

regulation. (P501)

3. Composition/information on ingredients

Distinction of substance or mixture : Mixture

Name	Concentration or	Formula	Kanpo number		CAS RN
Name	Concentration range	Formula	CSCL no	ISHL no	CASKN
Triolein	About 23%	C57H104O6	(2)-669	Existing Chemical Substance	122-32-7
Paraffin wax	About 21%	CnH2n+2	(8)-414	-	8002-74-2
Monoolein	About 6%	C21H40O4	(2)-669	-	111-03-5
Squalene	About 10%	C30H50	(9)-761	Existing Chemical Substance	111-02-4
Oleic acid	About 9%	C18H34O2	(2)-609,(2)- 975	Existing Chemical Substance	112-80-1
Stearic Acid	About 9%	C18H36O2	(2)-608	Existing Chemical Substance	57-11-4
Linoleic acid	About 9%	C18H32O2	(2)-609	Existing Chemical Substance	60-33-3
Palmitic Acid	About 9%	C16H32O2	(2)-608	Existing Chemical Substance	57-10-3
Cholesterol	About 2%	C27H46O	(4)-1301	Existing Chemical Substance	57-88-5
Liquid paraffin	About 2%	Unspecified	(2)-10,(9)- 1692	-	8042-47-5

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are wt%, unless otherwise specified.

4. First aid measures

First aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

Get immediate medical advice/attention.

First-aid measures after skin : Remove/Take off immediately all contaminated clothing. contact : Gently wash with plenty of soap and water.

Gently wash with plenty of soap and water.

Get immediate medical advice/attention.

First-aid measures after eye

contact

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

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

Get immediate medical advice/attention.

First-aid measures after ingestion : Rinse mouth.

Get immediate medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media : Use proper extinguishing media depending on peripheral fire, Water

spray, Foam, Carbon dioxide, Dry powder, Sand.

Unsuitable extinguishing media

Protection during firefighting

Hazardous decomposition products

in case of fire

Do not use a heavy water stream.

In case of fire, product may produce irritative or toxic fumes/gases.

Firefighting instructions : If ignited, for the initial fire-fighting, cut off combustion sources, extinguish

fire at a stroke using appropriate fire-extinguishers.

In the case of peripheral fire, quickly remove movable containers to safe

laces.

If unable to be moved containers, sprinkle water to containers and

surrounding equipment, etc. to cool.

Wear appropriate fire-resistant clothing including self contained-

compressed air breathing apparatus.

Revision date: 10/17/2023 SDS code: IB-11

6. Accidental release measures

Personal Precautions, Protective Equipment and Emergency Procedures

General measures : Before entering, ventilate the area.

Do not let unauthorized persons come close to the area.

Immediately place the leakage area in isolation, with taking proper

distances for all directions.

Wear appropriate personal protective devices to prevent inhalation and contact with eye, skin, and clothing, and never attempt to work on the lee.

Environmental precautions

Environmental precautions : Avoid release to the environment.

Prevent entry to sewers and public waters.

Methods and Equipment for Containment and Cleaning up

Methods for cleaning up : Take care not to generate dust, sweep it up as much as possible, collect it

in an empty container that can be sealed, and move it to a safe place.

Wash out the spilled area with large amounts of water.

7. Handling and storage

Handling

Technical measures : Work with appropriate personal protective equipment to prevent inhalation

or contact to eyes, skin, and clothing.

Handle with care to prevent leakage, overflowing, or scattering, minimize

generation of mist or vapor, and thoroughly ventilate.

Precautions for safe handling : Do not eat, drink or smoke when using this product.

Thoroughly wash your hands and gargle after handling.

Ensure good ventilation of the work station.

Do not contact, breathe or swallow.

Prevents handling of incompatible

substances or mixtures

Avoid prolonged or repeated exposure.

Storage

Storage conditions : Store locked up.

Store in a well-ventilated place, away from direct sunlight. Keep container

tightly closed and keep away from fire and heat sources.

Material used in

packaging/containers

Airtight container.

Technical measures : Comply with applicable regulations.

Storage temperature : Cool and dark place

8. Exposure controls / Personal protection equipment

Exposure limit values	
Paraffin wax	
Exposure limits (ACGIH)	TWA 2 mg/m3,STEL -
Stearic Acid	
Exposure limits (ACGIH)	TWA 10 mg/m3(I) · 3 mg/m3(R),STEL -

Appropriate engineering controls : Cover up tightly the generation source

: Cover up tightly the generation source at the handling place or install local exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location.

Protective equipment

Respiratory protection : Protective mask
Hand protection : Protective gloves

Eye protection : Protective glasses (general glasses, glasses with side-shields, goggles)

Skin and body protection : Protective clothing, Protective boots, Protective apron

9. Physical and chemical properties

Physical state : Solid
Appearance : Paste
Color : milky white

characteristic odor Odor рΗ No data available Melting point No data available Freezing point No data available **Boiling point** No data available No data available Flash point Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure No data available No data available Relative density Density No data available Relative gas density No data available Solubility No data available Partition coefficient n-No data available

octanol/water (Log Pow)

Explosive limits (vol %) : No data available
Viscosity, kinematic : No data available
Particle characteristics : No data available

10. Stability and reactivity

Reactivity : No data available

Chemical stability : Stable under normal handling conditions.

Possibility of hazardous reactions : No data available
Conditions to avoid : Sunlight, Heat
Incompatible materials : No data available
Hazardous decomposition : No data available

products

11. Toxicological information

Respiratory sensitization

Germ cell mutagenicity

Skin sensitization

The information in this section is based on the "GHS Classification Results" by NITE.

As a product		
Acute toxicity (oral)	classification not possible	
Acute toxicity (dermal)	classification not possible	
Acute toxicity (inhalation)	vapors:classification not possible	
	Gases:classification not possible	
	dust, mist:classification not possible	
Skin corrosion/irritation	classification not possible	
Serious eye damage/irritation	Category 2B	
Respiratory sensitization	classification not possible	
Skin sensitization	classification not possible	
Germ cell mutagenicity	classification not possible	
Carcinogenicity	classification not possible	
Reproductive toxicity	classification not possible	
STOT-single exposure	Category 3 (Respiratory tract irritation.)	
STOT-repeated exposure	classification not possible	
Aspiration hazard	classification not possible	
Triolein		
Acute toxicity (oral)	No data available	
Acute toxicity (dermal)	No data available	
Acute toxicity (gas)	No data available	
Acute toxicity (vapour)	No data available	
Acute toxicity (inhalation:dust/mist)	No data available	
Skin corrosion/irritation	No data available	
Serious eye damage/irritation	No data available	

No data available

No data available

No data available

Triolein	
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
<u> </u>	No data available
STOT-repeated exposure	
Aspiration hazard	No data available
Paraffin wax	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	No classification
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	classification not possible
Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	No classification
Serious eye damage/irritation Respiratory sensitization	Category 2B classification not possible
Skin sensitization	classification not possible
Germ cell mutagenicity	classification not possible
Carcinogenicity	classification not possible
Reproductive toxicity	classification not possible
STOT-single exposure	Category 3 (Respiratory tract irritation.)
	classification not possible
STOT-repeated exposure	·
Aspiration hazard	classification not possible
Monoolein	
Acute toxicity (oral)	No data available
Acute toxicity (dermal)	No data available
Acute toxicity (gas)	No data available
Acute toxicity (vapour)	No data available
Acute toxicity (inhalation:dust/mist)	No data available No data available
Skin corrosion/irritation Serious eye damage/irritation	No data available
Respiratory sensitization	No data available
Skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available
	140 Gata avaliable
Squalene	No data available
Acute toxicity (oral)	No data available No data available
Acute toxicity (dermal) Acute toxicity (gas)	No data available No data available
Acute toxicity (gas) Acute toxicity (vapour)	No data available
Acute toxicity (vapour) Acute toxicity (inhalation:dust/mist)	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory sensitization	No data available
Skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available

Oleic acid	
Acute toxicity (oral)	No data available
Acute toxicity (dermal)	No data available
Acute toxicity (gas)	No data available
Acute toxicity (vapour)	No data available
Acute toxicity (inhalation:dust/mist)	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory sensitization	No data available
Skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available
Stearic Acid	
Acute toxicity (oral)	No data available
Acute toxicity (dermal)	No data available
Acute toxicity (gas)	No data available
Acute toxicity (vapour)	No data available
Acute toxicity (inhalation:dust/mist)	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory sensitization	No data available
Skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available
Linoleic acid	
Acute toxicity (oral)	No data available
Acute toxicity (dermal)	No data available
Acute toxicity (gas)	No data available
Acute toxicity (vapour)	No data available
Acute toxicity (inhalation:dust/mist)	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Respiratory sensitization	No data available
Skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available
Palmitic Acid	
Acute toxicity (oral)	No data available
Acute toxicity (dermal)	No data available
Acute toxicity (gas)	No data available
Acute toxicity (vapour)	No data available
Acute toxicity (inhalation:dust/mist)	No data available
Skin corrosion/irritation	No data available

Palmitic Acid Serious eye damage/irritation No data available Respiratory sensitization No data available Skin sensitization No data available Germ cell mutagenicity No data available Carcinogenicity No data available Reproductive toxicity No data available	
Respiratory sensitization Skin sensitization No data available Germ cell mutagenicity No data available Carcinogenicity No data available Reproductive toxicity No data available	
Skin sensitization No data available Germ cell mutagenicity No data available Carcinogenicity No data available Reproductive toxicity No data available	
Germ cell mutagenicity Carcinogenicity No data available No data available Reproductive toxicity No data available	
Carcinogenicity No data available Reproductive toxicity No data available	
Reproductive toxicity No data available	
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STOT-single exposure No data available	
STOT-repeated exposure No data available	
Aspiration hazard No data available	
Cholesterol	
Acute toxicity (oral) Acute toxicity (dermal) No data available No data available	
Acute toxicity (gas) No data available No data available	_
Acute toxicity (vapour) No data available No data available	
Acute toxicity (vapour) Acute toxicity (inhalation:dust/mist) No data available	
Skin corrosion/irritation No data available	
Serious eye damage/irritation No data available	
Respiratory sensitization No data available	
Skin sensitization No data available	
Germ cell mutagenicity No data available	
Carcinogenicity No data available	
Reproductive toxicity No data available	
STOT-single exposure No data available	
STOT-repeated exposure No data available	
Aspiration hazard No data available	
Liquid paraffin	
Acute toxicity (oral) classification not possible	
Acute toxicity (dermal) classification not possible	
Acute toxicity (gas) classification not possible	
Acute toxicity (vapour) classification not possible	
Acute toxicity (inhalation:dust/mist) classification not possible	
Skin corrosion/irritation classification not possible	
Serious eye damage/irritation classification not possible	
Respiratory sensitization classification not possible	
Skin sensitization classification not possible	
Germ cell mutagenicity classification not possible	
Carcinogenicity classification not possible	
Reproductive toxicity classification not possible	
STOT-single exposure classification not possible	
STOT-repeated exposure classification not possible	
Aspiration hazard classification not possible	

12. Ecological information

The information in this section is based on the "GHS Classification Results" by NITE.

The information in this section is based on the "Grio Glassification results" by 1411 E.		
As a product		
Hazardous to the aquatic environment, short-term (acute)	classification not possible	
Hazardous to the aquatic environment, long-term (chronic)	classification not possible	
Persistence and degradability	No data available	
Bioaccumulative potential	No data available	
Mobility in soil	No data available	
Ozone	classification not possible	

Triolein	
Hazardous to Aquatic Environment - Acute Hazard	No data available
Hazardous to Aquatic Environment - Chronic Hazard	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	No data available
Paraffin wax	
Hazardous to Aquatic Environment - Acute Hazard	classification not possible
Hazardous to Aquatic Environment - Chronic Hazard	classification not possible
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	classification not possible
Monoolein	
Hazardous to Aquatic Environment - Acute Hazard	No data available
Hazardous to Aquatic Environment - Chronic Hazard	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	No data available
Squalene	
Hazardous to Aquatic Environment - Acute Hazard	No data available
Hazardous to Aquatic Environment - Chronic Hazard	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	No data available
Oleic acid	
Hazardous to Aquatic Environment - Acute Hazard	No data available
Hazardous to Aquatic Environment - Chronic Hazard	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	No data available
Stearic Acid	
Hazardous to Aquatic Environment - Acute Hazard	No data available
Hazardous to Aquatic Environment - Chronic Hazard	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	No data available
Linoleic acid	
Hazardous to Aquatic Environment - Acute Hazard	No data available
Hazardous to Aquatic Environment - Chronic Hazard	No data available

Linoleic acid	
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	No data available
Palmitic Acid	
Hazardous to Aquatic Environment - Acute Hazard	No data available
Hazardous to Aquatic Environment - Chronic Hazard	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	No data available
Cholesterol	
Hazardous to Aquatic Environment - Acute Hazard	No data available
Hazardous to Aquatic Environment - Chronic Hazard	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	No data available
Liquid paraffin	
Hazardous to Aquatic Environment - Acute Hazard	classification not possible
Hazardous to Aquatic Environment - Chronic Hazard	classification not possible
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Hazardous to the ozone layer	classification not possible

13. Disposal considerations

Ecology - waste materials : With the detail information of the waste, subcontract its disposal to a

waste disposer authorized by a Prefectural Governor.

Contaminated container and

packaging

Empty the packaging completely prior to disposal.

Empty containers should be taken for recycle, recovery or waste in

accordance with local regulation.

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) (IMDG) : Not applicable

Air transport(IATA)

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

Regulations in Japan

Regulatory information by sea : Not applicable Regulatory information by air : Not applicable

Special transport precautions : When transporting, load containers so that they do not tip over,

damage, drop or collapse. Make sure there is no leak in containers.

15. Regulatory information

National law

Industrial Safety and Health Law

Harmful Substances Whose Names Are to be Indicated on the Label (Law Art.57, Para.1, Enforcement Order Art.18 Item 1, Item 2,

Attached Table No.9)

Notifiable Substances (Law Art.57-2, Enforcement Order Art.18-2

Item 1, Item 2, Attached Table No.9)
Paraffin wax (Ordinance number : 170)
Mineral oils (Ordinance number : 168)

Japanese Poisonous and

Deleterious Substances Control Law

Not applicable

Fire Service Law

: Designated Combustible Substances - Combustible solids (Law Art.9-4, Cabinet Order on Hazardous Materials Art Art.1-12, Attached Table

No.4)

Foreign Exchange and Foreign

Trade Control Act

Export Trade Control Ordinance appendix 1-16

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

,,,,/)

Transfer Register Law (PRTR Law

: Not applicable

Labor Standards Act

: Carcinogens (Act Art.75, Para.2, Ordinance Attached Table 1-2, Item

7)

16. Other information

Data sources

: Handbook of 17423 Chemical Products, The Chemical Daily Co, Ltd.

International Chemical Safety Cards.

National Institute of Technology and Evaluation (NITE). 2020 Emergency Response Guidebook (ERG 2020).

Other information

The SDS is copyrighted material of Hayashi Pure Chemical Ind, Ltd. This Safety Data Sheet is intended to be provided for business operators who handle chemical substance products of the relevant product and is not intended to assure safety in any way. The Safety Data Sheet does not verify all the information on the applicable chemical substance in the present time. With the recognition in that unknown danger constantly exists in the relevant chemical substance, the product shall be used in the principle of self-responsibility of the user with the highest priority to safety from transport and unpacking to disposal. When the relevant chemical substance is used, the user him/herself shall collect safety information and shall investigate laws and regulations at the place, organizations, countries, etc. where the substance is actually used and give the highest priority to them. The Company shall take no responsibility for investigating state and local regulations and the user shall handle this problem on his/her own responsibility. In the event that SDS in Japanese and SDS translated into other languages exist, the document described in Japanese is prior to all other documents whether or not there is any difference in contents, and documents in other languages shall be references.