

Artificial sweat (for spectacle frames-test)

Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 2/14/2018 Revision date: 4/27/2022 SDS code: Y1-08 Version: 04

Safety Data Sheet

1. Chemical product and company identification

Artificial sweat (for spectacle frames-test) **Product name**

SDS code Y1-08

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

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Emergency number 06-6910-7305

2. Hazards identification

GHS classification

Health hazards

Physical hazards classification not possible **Explosives**

> Flammable gases No classification

Aerosol classification not possible

Oxidizing gases No classification Gases under pressure No classification

Flammable liquids classification not possible

Flammable solids No classification

Self-reactive substances and

mixtures

Pyrophoric liquids

classification not possible classification not possible

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 Category 1

Desensitized eplosives classification not possible

Acute toxicity (oral) classification not possible classification not possible Acute toxicity (dermal) 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 Category 1 Serious eye damage/eye irritation Category 1

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 classification not possible

exposure)

Specific target organ toxicity classification not possible

(repeated exposure)

Aspiration hazard classification not possible

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Environmental hazards

Hazardous to the aquatic

environment, short-term (acute)

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

classification not possible

classification not possible

Hazardous to the ozone layer classification not possible

Hazard pictograms (GHS JP)



Signal word (GHS JP) Danger

Hazard statements (GHS JP) May be corrosive to metals (H290)

Causes severe skin burns and eye damage (H314)

Precautionary statements (GHS JP)

Prevention Keep only in original container. (P234)

Do not breathe dust/fume/gas/mist/vapors/spray. (P260)

Wash hands, forearms and face thoroughly after handling. (P264) Wear protective gloves/protective clothing/eye protection/face protection.

(P280)

Response IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

(P301+P330+P331)

IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water . (P303+P361+P353)

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)

Immediately call a POISON CENTER or doctor. (P310) Wash contaminated clothing before reuse. (P363) Absorb spillage to prevent material-damage. (P390)

Storage Store locked up. (P405)

Store in corrosive resistant container with a resistant inner liner. (P406)

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		Kanpo number		040 PM
Name	Concentration range	Formula	CSCL no	CL no ISHL no CAS RN	CAS RN
Lactic acid	About 4.2%	C3H6O3	(2)-1369	Existing Chemical Substance	50-21-5
Sodium chloride	About 9.3%	NaCl	(1)-236	7-(3)-1053	7647-14-5
Water	About 86.5%	H2O	-	-	7732-18-5

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are mass%, 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

contact

Remove/Take off immediately all contaminated clothing.

Gently wash with plenty of soap and water. Get immediate medical advice/attention.

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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 : Do NOT induce vomiting.

Drink plenty of water.

Rinse mouth.

Get immediate medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media

Water spray, Alcohol-resistant foam, Dry powder, Carbon dioxide, Sand.

Unsuitable extinguishing media

Do not use a heavy water stream.

Explosion hazard

May induce explosion of containers by heating.

Hazardous decomposition products

ts :

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

in case of fire

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

places.

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

surrounding equipment, etc. to cool.

Avoid (reject) fire-fighting water to enter environment.

Even after extinguishing fire, thoroughly cool containers by using plenty of

water

Protection during firefighting

Wear appropriate fire-resistant clothing including self contained-

compressed air breathing apparatus.

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

: Clean up any spills as soon as possible, using an absorbent material to

collect it.

Collect leaking and spilled liquid in sealable containers as far as possible.

Wash out the spilled area with large amounts of water.

If possible, neutralize with slaked lime, soda ash, etc. before washing out.

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.

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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.

Store in corrosive resistant container with a resistant inner liner.

Material used in

packaging/containers

Airtight container.

Technical measures Comply with applicable regulations.

Cool and dark place Storage temperature

8. Exposure controls / Personal protection equipment

Appropriate engineering controls : 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 : Gas mask for acid gases Hand protection : Impervious protective gloves

Eye protection : Protective glasses (general glasses, glasses with side-shields, goggles) : Impervious aprons, Impervious work clothing, Protective long boots Skin and body protection

9. Physical and chemical properties

Physical state Liquid **Appearance** Liquid

Color colorless transparent

Odor Odorless рΗ 1.6 (25°C)

Melting point No data available Freezing point No data available **Boiling point** No data available Flash point No data available Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure No data available Relative density No data available Density 1.08 g/cm³ (20°C) Relative gas density No data available No data available Solubility Partition coefficient n-No data available

octanol/water (Log Pow)

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

10. Stability and reactivity

Reactivity No data available

Stable under normal handling conditions. Chemical stability Possibility of hazardous reactions Reacts with strong bases and metals.

Conditions to avoid Sunlight, heat. Contact with strong bases and metals.

Incompatible materials Strong bases, Metals Hazardous decomposition Chlorine compounds

products

11. Toxicological information

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

	JOHNIE GRS Classification Results by NITE.
As a product	
Acute toxicity (oral)	classification not possible
Acute toxicity (dermal) Acute toxicity (inhalation)	classification not possible vapors:classification not possible
Acute toxicity (iiiiiaiation)	Gases:classification not possible
	dust, mist:classification not possible
Skin corrosion/irritation	Category 1
Serious eye damage/irritation	Category 1
Respiratory sensitization	classification not possible
Skin sensitization	classification not possible
Germ cell mutagenicity Carcinogenicity	classification not possible 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
Lactic acid	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	classification not possible
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	classification not possible
Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	Category 1
Serious eye damage/irritation	Category 1
Respiratory sensitization	classification not possible
Skin sensitization	No classification
Germ cell mutagenicity	classification not possible
Carcinogenicity	classification not possible
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Reproductive toxicity	classification not possible
STOT-single exposure	classification not possible
STOT-repeated exposure	classification not possible
Aspiration hazard	classification not possible
Sodium chloride	
Acute toxicity (oral)	classification not possible
Acute toxicity (dermal)	classification not possible
Acute toxicity (gas)	classification not possible
Acute toxicity (vapour)	No classification
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
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Reproductive toxicity	classification not possible
STOT-single exposure	classification not possible
STOT-repeated exposure	classification not possible
Aspiration hazard	classification not possible
Water	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	No classification
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	No classification
Acute toxicity (inhalation:dust/mist)	No classification
Skin corrosion/irritation	No classification
J.m. Composition minus	110 0.000110011011

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Water	
Serious eye damage/irritation	No classification
Respiratory sensitization	No classification
Skin sensitization	No classification
Germ cell mutagenicity	No classification
Carcinogenicity	No classification
Reproductive toxicity	No classification
STOT-single exposure	No classification
STOT-repeated exposure	No classification
Aspiration hazard	No classification

12. Ecological information

As a product Hazardous to the aquatic environment, short-term (acute) Hazardous to the aquatic environment, long-term (chronic) classification not possible
short-term (acute) Hazardous to the aquatic environment, classification not possible
Hazardous to the aquatic environment, classification not possible
long-term (chronic)
Persistence and degradability No data available
Bioaccumulative potential No data available No data available
Mobility in soil No data available
Ozone classification not possible
Lactic acid
Hazardous to Aquatic Environment - No classification
Acute Hazard
Hazardous to Aquatic Environment - No classification
Chronic Hazard
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
Sodium chloride
Hazardous to Aquatic Environment - classification not possible
Acute Hazard
Hazardous to Aquatic Environment - classification not possible
Chronic Hazard
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
Water
Hazardous to Aquatic Environment - No classification Acute Hazard
Hazardous to Aquatic Environment - No classification Chronic Hazard
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) 1760

Proper Shipping Name (IMDG) CORROSIVE LIQUID, N.O.S.

Packing group (IMDG) Ш Transport hazard class(es) (IMDG) 8 Hazard labels (IMDG) 8 Class (IMDG) 8

Special provision (IMDG) 223, 274 Packing instructions (IMDG) P001, LP01 IBC packing instructions (IMDG) IBC03 Tank instructions (IMDG) T7 Tank special provisions (IMDG) TP1, TP28

Stowage category (IMDG)

Properties and observations (IMDG) Causes burns to skin, eyes and mucous membranes.

MFAG-No

Air transport(IATA)

UN-No. (IATA) 1760

Proper Shipping Name (IATA) Corrosive liquid, n.o.s.

Packing group (IATA) Ш Transport hazard class(es) (IATA) 8 Hazard labels (IATA) 8 Class (IATA) 8 PCA Excepted quantities (IATA) E1 PCA Limited quantities (IATA) Y841 PCA limited quantity max net 1L

quantity (IATA)

PCA packing instructions (IATA) 852 PCA max net quantity (IATA) 5L CAO packing instructions (IATA) 856 CAO max net quantity (IATA) 60L Special provision (IATA) A3, A803 ERG code (IATA) 81

Marine pollutant Not applicable

Regulations in Japan

Regulatory information by sea Conform to the provisions of the Ship Safety Law. Regulatory information by air Conform to the provisions of the Civil Aeronautics Law.

MFAG-No

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 Not applicable Japanese Poisonous and Not applicable

Deleterious Substances Control Law

Not applicable

Law Relating to Prevention of

Marine Pollution and Maritime Disasters

Foreign Exchange and Foreign Trade Control Act

Export Trade Control Ordinance appendix 1-16

Ship Safety Act Corrosive substances (Dangerous Goods Notification Schedule first

second and third Article Dangerous Goods Regulations)

Corrosive substances (Hazardous materials notice Appended Table 1 Civil Aeronautics Law

Article 194 of the Enforcement Regulations)

Order, Art.1-2, Attached Table No.1 Item 3)

Corrosive substances (Article 21, Paragraph 2 of Law, Article 12 rule, Port Regulation Law

notice attached table that defines the type of dangerous goods)

Waste Management on Public

Cleansing Law

Specially Controlled Industrial Wastes (Act Art.2, para 5, Enfothment

Noxious Liquid Substances - Category Z (Law Art.3(3), Enforcement

Order Art.2-4)

Japanese Pollutant Release and Transfer Register Law (PRTR Law) Not applicable

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16. Other information

Data sources

Handbook of 17322 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 Havashi 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.