

### SFA10Mix

#### Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 12/28/2020 Revision date: 7/12/2022 SDS code: XA-03 Version: 03

#### Safety Data Sheet

# 1. Chemical product and company identification

**Product name** SFA10Mix SDS code XA-03

Company/undertaking

identification

HAYASHI PURE CHEMICAL IND.,LTD.

Address: 3-2-12 Uchihiranomachi, Chuo-ku, Osaka, Osaka, Japan

Telephone: 06-6910-7305

E-mail: shiyaku\_kikaku@hpc-j.co.jp URL: https://www.hpc-j.co.jp/

**Emergency number** 06-6910-7305

Recommended use For a research and experimental use only.

Restrictions on use Do not use for any purpose other than a research and an experiment. Do not use

on a human body or for animal medicines, foods, household products,

No classification

cosmetics, etc. Do not use in a natural environment.

#### 2. Hazards identification

#### **GHS** classification

Physical hazards **Explosives** No classification

> Flammable gases No classification Aerosol No classification Oxidizing gases No classification Gases under pressure No classification Flammable liquids Category 2 Flammable solids No classification Self-reactive substances and No classification

mixtures

Pyrophoric liquids No classification Pyrophoric solids No classification

Self-heating substances and classification not possible

mixtures

Substances and mixtures which in

contact with water emit flammable

gases

No classification Oxidizing liquids No classification Oxidizing solids No classification Organic peroxides

classification not possible Corrosive to metals Desensitized eplosives classification not possible

Health hazards Acute toxicity (oral) No classification

> Acute toxicity (dermal) classification not possible

Acute toxicity (inhalation:gas) No classification

Acute toxicity (inhalation:vapors) classification not possible Acute toxicity (inhalation:dust/mist) classification not possible

Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2

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

Reproductive toxicity Category 2

Specific target organ toxicity (single Category 3 (Narcosis)

exposure)

exposure)

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

Specific target organ toxicity

(repeated exposure)

Category 1 (digestive tract, central nervous system,

respiratory system, nervous system)

classification not possible Aspiration hazard

Environmental hazards

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

Hazardous to the aquatic environment, long-term (chronic) classification not possible

Hazardous to the ozone layer classification not possible

Category 2

Hazard pictograms (GHS JP)







GHS08

GHS02

GHS07

Signal word (GHS JP)

Danger Hazard statements (GHS JP)

Highly flammable liquid and vapor (H225)

Causes skin irritation (H315) Causes serious eye irritation (H319) May cause respiratory irritation (H335) May cause drowsiness or dizziness (H336)

Suspected of damaging fertility or the unborn child (H361)

Causes damage to organs (digestive tract, central nervous system, respiratory system, nervous system) through prolonged or repeated

exposure (H372)

Toxic to aquatic life (H401)

Precautionary statements (GHS JP)

Prevention Obtain special instructions before use. (P201)

Do not handle until all safety precautions have been read and understood.

(P202)

Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. (P210)

Ground and bond container and receiving equipment. (P240) Use explosion-proof electrical/ventilating/lighting equipment. (P241)

Use only non-sparking tools. (P242)

Take action to prevent static discharges. (P243)

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

Wash hands, forearms and face thoroughly after handling. (P264) Do not eat, drink or smoke when using this product. (P270) Use only outdoors or in a well-ventilated area. (P271)

Avoid release to the environment. (P273)

Wear protective gloves/protective clothing/eye protection/face protection.

(P280)

Response 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)

IF exposed or concerned: Get medical advice/attention. (P308+P313)

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

If skin irritation occurs: Get medical advice/attention, (P332+P313) If eye irritation persists: Get medical advice/attention. (P337+P313) Take off contaminated clothing and wash it before reuse. (P362+P364) In case of fire: Use specify appropriate media to extinguish. (P370+P378)

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

(P403+P233)

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

Store locked up. (P405)

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

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 Concentration range	Formula	Kanpo	Kanpo number	
			CSCL no	ISHL no	CAS RN
Acetone	≧54%	(CH3)2CO	(2)-542	Existing Chemical Substance	67-64-1
Hexane	≧45%	C6H14	(2)-6	Existing Chemical Substance	110-54-3
Caprylic Acid	About 0.027%	C8H16O2	(2)-608	Existing Chemical Substance	124-07-2
Capric Acid	About 0.027%	C10H20O2	(2)-608	Existing Chemical Substance	334-48-5
Lauric Acid	About 0.027%	C12H24O2	(2)-608	Existing Chemical Substance	143-07-7
Myristic Acid	About 0.027%	C14H28O2	(2)-608	Existing Chemical Substance	544-63-8
Palmitic Acid	About 0.027%	C16H32O2	(2)-608	Existing Chemical Substance	57-10-3
Stearic Acid	About 0.027%	C18H36O2	(2)-608	Existing Chemical Substance	57-11-4
Arachidic Acid	About 0.027%	C20H40O2	(2)-608	Existing Chemical Substance	506-30-9
Behenic Acid	About 0.027%	C22H44O2	(2)-608	Existing Chemical Substance	112-85-6
Lignoceric Acid	About 0.027%	C24H48O2	(2)-608	Existing Chemical Substance	557-59-5
Cerotic Acid	About 0.027%	C26H52O2	(2)-608	Existing Chemical Substance	506-46-7

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

contact

Remove/Take off immediately all contaminated clothing.

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 : Do NOT induce vomiting.

Rinse mouth.

Get immediate medical advice/attention.

5. Fire fighting measures

Suitable extinguishing media : Water spray, Foam, Dry powder, Carbon dioxide, Sand.

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Unsuitable extinguishing media

Do not use a heavy water stream. Fire hazard Extremely flammable liquid and vapor.

**Explosion hazard** Danger of the steam explosion in indoor, outdoor, sewer.

May induce explosion of containers by heating.

Hazardous decomposition products

in case of fire

Firefighting instructions

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

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.

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

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.

# 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.

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

Thoroughly wash your hands and gargle after handling.

Ensure good ventilation of the work station.

Do not contact, breathe or swallow.

Take precautionary measures against static discharge.

Use explosion-proof equipment.

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

Light shielding airtight container.

Technical measures Comply with applicable regulations.

Storage temperature Room temperature (15-25°C)

### 8. Exposure controls / Personal protection equipment

Exposure limit values		
Acetone		
Japan administration level	500ppm	
Exposure limits (JSOH)	200ppm(470mg/m3)	
Exposure limits (ACGIH)	TWA 250 ppm,STEL 500 ppm	
Hexane		
Japan administration level	40ppm	
Exposure limits (JSOH)	40ppm(140mg/m3)(skin)	
Exposure limits (ACGIH)	TWA 50 ppm,STEL - (Skin)	
Stearic Acid		
Exposure limits (ACGIH)	TWA 10 mg/m3(I) · 3 mg/m3(R),STEL -	

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 organic gases
Hand protection : Impervious protective gloves

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

### 9. Physical and chemical properties

Physical state : Liquid
Appearance : Liquid

Color No data available Odor No data available рΗ No data available 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 No data available Decomposition temperature No data available Flammability (solid, gas) Vapor pressure No data available Relative density No data available No data available Density 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. Crystals may deposit at low

temperatures.

Possibility of hazardous reactions : Reacts with oxidants, reductants, and bases. When contacting with acetic

acid and strong oxidants like nitric acid and hydrogen peroxide, explosive peroxides can be generated. In the basic condition, reacting with chloroform and bromoform, the risk of fire and explosion can be caused. Corrodes the

olastics.

Conditions to avoid : Sunlight, heat. Ignition sources such as spark, flame and static electricity.

Contact with oxidants, reductants, bases, chloroform and bromoform in the

basic condition.

Incompatible materials : Oxidants, Reductants, Bases, Chloroform and bromoform in the basic

condition

Hazardous decomposition

products

No data available

# 11. Toxicological information

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

	TOTI THE GHS Classification Results by NITE.
As a product	No elegation
Acute toxicity (oral) Acute toxicity (dermal)	No classification classification not possible
Acute toxicity (dermai)  Acute toxicity (inhalation)	vapors:classification not possible
Acute toxicity (initialation)	Gases:No classification
	dust, mist:classification not possible
Skin corrosion/irritation	Category 2
Serious eye damage/irritation	Category 2
Respiratory sensitization	classification not possible
Skin sensitization	classification not possible
Germ cell mutagenicity	classification not possible
Carcinogenicity Reproductive toxicity	classification not possible Category 2
STOT-single exposure	Category 3 (Narcosis) Category 3 (Respiratory tract irritation.)
STOT-repeated exposure	Category 1
Aspiration hazard	classification not possible
Acetone	· · · · · · · · · · · · · · · · · · ·
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)	classification not possible
Skin corrosion/irritation	No classification
Serious eye damage/irritation	Category 2B
Respiratory sensitization	classification not possible
Skin sensitization	No classification
Germ cell mutagenicity	classification not possible
Carcinogenicity	classification not possible
Reproductive toxicity	Category 2
STOT-single exposure	Category 2 (Narcosis) Category 3 (Respiratory tract irritation.)
STOT-repeated exposure	Category 1
· · · · · · · · · · · · · · · · · · ·	classification not possible
Aspiration hazard	classification not possible
Hexane	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	classification not possible
Acute toxicity (gas)	No classification
Acute toxicity (vapour)	No classification
Acute toxicity (inhalation:dust/mist)	classification not possible
Skin corrosion/irritation	Category 2
Serious eye damage/irritation	Category 2
Respiratory sensitization	classification not possible
Skin sensitization	classification not possible
Germ cell mutagenicity	No classification
Carcinogenicity	classification not possible
Reproductive toxicity	Category 2
STOT-single exposure	Category 3 (Narcosis) Category 3 (Respiratory tract irritation.)
STOT-repeated exposure	Category 1
Aspiration hazard	Category 1
Capric Acid	
Acute toxicity (oral)	No classification
Acute toxicity (dermal)	No classification
Acute toxicity (defilial)	างบ บเลออเทบสนเบา

Capric Acid		
Acute toxicity (gas)	No classification	
Acute toxicity (vapour)	classification not possible	
Acute toxicity (inhalation:dust/mist)	classification not possible	
Skin corrosion/irritation	Category 2	
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	
Reproductive toxicity	classification not possible	
STOT-single exposure	classification not possible	
STOT-repeated exposure	No classification	
Aspiration hazard	classification not possible	

# 12. Ecological information

The information in this section is based of	n the "GHS Classification Results" by NITE.
As a product	
Hazardous to the aquatic environment,	Category 2
short-term (acute)	
Hazardous to the aquatic environment,	classification not possible
long-term (chronic) Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Ozone	classification not possible
Acetone	- State of the sta
Hazardous to Aquatic Environment -	No classification
Acute Hazard	THO GLOSINGUIOTI
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	No data available
Hexane	
Hazardous to Aquatic Environment -	Category 2
Acute Hazard	
Hazardous to Aquatic Environment - Chronic Hazard	No classification
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
Capric Acid	
Hazardous to Aquatic Environment - Acute Hazard	Category 3
Hazardous to Aquatic Environment - Chronic Hazard	Category 3
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

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### 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) 1993

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

Packing group (IMDG) Ш Transport hazard class(es) (IMDG) 3 Hazard labels (IMDG) 3 Class (IMDG) 3 274 Special provision (IMDG) Limited quantities (IMDG) 1 L Excepted quantities (IMDG) E2 Packing instructions (IMDG) P001 IBC packing instructions (IMDG) IBC02 Tank instructions (IMDG) T7

Tank special provisions (IMDG) TP1, TP28, TP8

Stowage category (IMDG) В MFAG-No 128

#### Air transport(IATA)

UN-No. (IATA) 1993

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

Packing group (IATA) Ш Transport hazard class(es) (IATA) 3 Hazard labels (IATA) 3 Class (IATA) 3 PCA Excepted quantities (IATA) E2 PCA Limited quantities (IATA) Y341 PCA limited quantity max net 1L

quantity (IATA)

PCA packing instructions (IATA) 353 PCA max net quantity (IATA) 5L CAO packing instructions (IATA) 364 CAO max net quantity (IATA) 601 Special provision (IATA) А3 ERG code (IATA) 3Н

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 128

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**

Chemical Substances Control Law Industrial Safety and Health Law

Priority Assessment Chemical Substances (Law Article 2, Para.5)

Class 2 Organic Solvents etc. (Enforcement Order, Art., Appended Table 6-2, Ordinance on Prevention of Organic Solvent Poisoning,

Art.1. Para.1. Item 4)

Working Environment Evaluation Standards, Administrative Control

Levels (Law Art.65-2, Para.1)

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)

Dangerous Substances - Flammable Substance (Enforcement Order

Attached Table 1 Item 4)

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

Item 1, Item 2, Attached Table No.9) Acetone (Ordinance number : 17) Hexane (Ordinance number : 520)

Substances on Special medical examination, Current handling workers (Act, Art.66, Para.2, Enforcement Order, Art.22 Item 1)

Japanese Poisonous and

Deleterious Substances Control Law Narcotics and Psychotropics Control

Act

: Not applicable

Raw Materials(Law Art.2 (7), Attached Table Art.4)

Fire Service Law : Group 4 - Flammable liquids - 1st Class petroleums - Insoluble (Law

Art.2 Para.7, Attached Table 1, Group 4)

Air Pollution Control Law : Hazardous Air Pollutants (Central Environment Council Report No. 9)

Volatile Organic Compounds (Law Art.2 Para.4) (MOE Official Notice

to Prefectures)

Foreign Exchange and Foreign

Trade Control Act Ship Safety Act

Civil Aeronautics Law

: Export Trade Control Ordinance appendix 1-16

Export Approval (Export Trade Control Order, Attached Table 2) Flammable liquids (Dangerous Goods Notification Schedule first second and third Article Dangerous Goods Regulations)

: Flammable liquids (Hazardous materials notice Appended Table 1

Article 194 of the Enforcement Regulations)

Port Regulation Law : Flammable liquids (Article 21, Paragraph 2 of Law, Article 12 rule,

notice attached table that defines the type of dangerous goods)

Road Act : Restriction for Vehicle Traffic (Enforcement Order Art.19-13,

Publication of Japan Highway Pablic Corp.)

Waste Management on Public

Cleansing Law

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

Order Art.2-4)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Class 1 Designated Chemical Substances (Act Art.2 para. 2,

Enforcement Oder Art.1 Appended Table No.1)

n-Hexane (≥45%)

[After amendment of April 2023]

Class 1 Designated Chemical Substances (Act, Art.2, Para.2,

Enforcement Order, Art.1 Appended Table 1)

Hexane (≧45%)

Labor Standards Act : Chemical Substances Causing Occupational Illnesses (Act Art.75,

Para.2, Ordinance Attached Table 1-2, Item 4-1,MHLW Nortification

No.36 of 1978

#### 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 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.