# **SAFETY DATA SHEET**



This safety data sheet complies with the requirements of: GB/T 16483, GB/T 17519

Issue date 13-Sep-2018 Version 1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **Product identifier**

Product name STU1801956/香蕉香精/BANANA FLAVOR

### **Details of the Supplier of the Safety Data Sheet**

Shanghai Takasago-Union Fragrances & Flavors CO., LTD. 456 Kangyi Road, Kangqiao Industrial Zone, Pudong, Shanghai, P.R.C. TEL: +86-021-58120248; FAX:+86-021-58120238

For further information, please contact

E-mail address stu\_sds\_info@takasago.com

#### Emergency telephone number

TEL: +86-4006267911

#### Recommended use of the chemical and restrictions on use

Recommended use Flavors

For industrial use only

## **SECTION 2: Hazards identification**

#### **GHS Classification**

Flammable Liquids	Category 3 - (H226)
Skin Sensitization	Category 1B - (H317)
Acute aquatic toxicity	Category 3 - (H402)

#### **Label Elements**



#### Signal word Warning

#### **Hazard Statements**

H402 - Harmful to aquatic life

H317 - May cause an allergic skin reaction

H226 - Flammable liquid and vapor

# **Precautionary statements**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P272 - Contaminated work clothing should not be allowed out of the workplace

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention

P321 - Specific treatment (see supplemental first aid instructions on this label)

P363 - Wash contaminated clothing before reuse

P273 - Avoid release to the environment

- P501 Dispose of contents/ container to an approved waste disposal plant
- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking
- P233 Keep container tightly closed
- P240 Ground/bond container and receiving equipment
- P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment
- P242 Use only non-sparking tools
- P243 Take precautionary measures against static discharge
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
- P403 + P235 Store in a well-ventilated place. Keep cool
- P501 Dispose of contents/container to industrial incineration plant

#### **Other Hazards**

None

# **SECTION 3: Composition/information on ingredients**

#### **Substance**

Not applicable

#### **Mixture**

	CAS No	Concentration	GHS Classification
Isopentyl acetate	123-92-2	>=5 - <10%	(EUH066)
123-92-2			Flam. Liq. 3 (H226)
			Aquatic Acute 3 (H402)
ISOBUTYL ACETATE	110-19-0	>=3 - <5%	(EUH066)
110-19-0			Aquatic Acute 3 (H402)
			STOT SE 3 (H336)
			Flam. Liq. 2 (H225)
3-Methylbutyl butyrate	106-27-4	>=1 - <3%	Aquatic Acute 2 (H401)
106-27-4			Flam. Liq. 3 (H226)
trans-Hex-2-enal	6728-26-3	>=1 - <3%	Skin Corr. 3 (H316)
6728-26-3			Aquatic Chronic 2 (H411)
			Eye Irrit. 2A (H319)
			Acute Tox. 3 (H311)
			Acute Tox. 4 (H302)
			Flam. Liq. 3 (H226)
			Aquatic Acute 2 (H401)
			Skin Sens. 1B (H317)
Hexanal	66-25-1	>=1 - <3%	Eye Irrit. 2A (H319)
66-25-1			Flam. Liq. 3 (H226)
			Skin Corr. 3 (H316)

Components with occupational exposure limits and/or biological occupational exposure limits requiring monitoring

	CAS No	Concentration	GHS Classification
Isopentyl acetate	123-92-2	>=5 - <10%	(EUH066)
			Flam. Liq. 3 (H226)
			Aquatic Acute 3 (H402)
N-Butyl acetate	123-86-4	>=0.1 - <1%	Aquatic Acute 3 (H402)
			(EUH066)
			Flam. Liq. 3 (H226)
			STOT SE 3 (H336)
ETHYL ACETATE	141-78-6	>=0.1 - <1%	Eye Irrit. 2A (H319)
			(EUH066)
			Flam. Liq. 2 (H225)
			STOT SE 3 (H336)

## **SECTION 4: First aid measures**

When in doubt or if symptoms are observed, get medical advice. General advice

Inhalation Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract

irritation, consult a physician.

Skin contact Change contaminated, saturated clothing. After contact with skin, wash immediately with

plenty of water and soap. In case of skin reactions, consult a physician.

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 Eye contact

minutes holding eyelids apart and consult an ophthalmologist.

If accidentally swallowed rinse the mouth with plenty of water (only if the person is Ingestion

conscious) and obtain immediate medical attention. Do NOT induce vomiting.

No known symptoms to date. Symptoms

Self-protection of the first aider Use personal protection recommended in Section 8.

Treat symptomatically. Note to physicians

# **SECTION 5: Firefighting measures**

Suitable extinguishing media Foam

Carbon dioxide (CO2) Dry extinguishing powder

Alcohol resistant foam Large Fire

Water spray

Unsuitable extinguishing media Full water jet

Special hazards arising from the

substance or mixture

In case of fire may be liberated

Carbon monoxide Carbon dioxide (CO2)

Burning produces heavy smoke

Do not inhale explosion and combustion gases

Specific extinguishing methods Use water spray jet to protect personnel and to cool endangered containers

Special protective equipment for

fire-fighters

Wear a self-contained breathing apparatus and chemical protective clothing

Move undamaged containers from immediate hazard area if it can be done safely Collect contaminated fire extinguishing water separately. Do not allow entering drains or

surface water

#### **SECTION 6: Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protection recommended in Section

8. Remove all sources of ignition. Provide adequate ventilation as well as local exhaustion

at critical locations. See section 7 for more information.

Use personal protection recommended in Section 8. For emergency responders

#### **Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains. Ensure waste is collected and contained.

#### Methods and material for containment and cleaning up

Small spill: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust).

**Large spill:** For large spills contain the material using barriers of absorbent pigs or similar.

#### Prevention of secondary hazards

Remove all sources of ignition. Use only non-sparking tools.

# **SECTION 7: Handling and storage**

Advice on safe handling Avoid contact with skin, eyes or clothing. Wear protective gloves and eye/face protection.

See Section 8 for information on appropriate personal protective equipment. Remove all sources of ignition. Provide adequate ventilation as well as local exhaustion at critical

locations. Handle and open container with care.

<u>Storage conditions</u> 阴凉、密封、避光、干燥保存/In tightly closed containers, protected from light ,keep in a

dry and cool area.

### **SECTION 8: Exposure controls/personal protection**

#### Occupational exposure limits

	China OEL
Isopentyl acetate	100 MGM3 (TWA)
123-92-2	200 MGM3 (STEL)
N-Butyl acetate	200 MGM3 (TWA)
123-86-4	300 MGM3 (STEL)
ETHYL ACETATE	300 MGM3 (STEL)
141-78-6	200 MGM3 (TWA)

**Engineering controls** Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection If technical exhaust or ventilation measures are not possible or insufficient, respiratory

protection must be worn.

Hand protection Wear chemically resistant gloves (tested to EN 374) in combination with 'basic' employee

training.

**Eye/face protection** Eye glasses with side protection.

Skin and body protection Wear appropriate personal protective clothing to prevent skin contact.

### **SECTION 9: Physical and chemical properties**

#### Information on basic physical and chemical properties

Appearance 无色至浅黄透明液体/Colorless to light yellow Clear liquid

Color

Odor

Odor threshold

PH

Melting point / freezing point

Boiling point / boiling range

No data available

Flash point = 45.00 °C / = 113 °F CC (closed cup)

Evaporation rate No data available Flammability (solid, gas) No data available

Flammability limit in air

No data available Upper flammability limit No data available Lower flammability limit Vapor pressure No data available Vapor density No data available Specific gravity 0.996-1.016 @ 20 °C Specific gravity 0.993-1.013 @ 25 °C Water solubility No data available Solubility in other solvents No data available Partition coefficient: n-octanol/waterNo data available **Autoignition temperature** No data available **Decomposition temperature** No data available No data available Kinematic viscosity Dynamic viscosity No data available **Explosive Properties** No data available No data available **Oxidizing Properties** 

Other information

**Refractive Index** 1.418-1.438 @ 20 °C

### **SECTION 10: Stability and reactivity**

**Reactivity** None under normal use conditions.

<u>Chemical stability</u> Stable under normal conditions. Stable under recommended storage conditions.

Possibility of hazardous reactions None under normal processing.

<u>Conditions to avoid</u> Extremes of temperature and direct sunlight.

**Incompatible materials** Strong oxidizing agents. Strong acids. Strong bases.

Hazardous decomposition products None under normal use conditions.

# **SECTION 11: Toxicological information**

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 14,138.00 mg/kg **ATEmix (dermal)** 14,696.00 mg/kg

Skin corrosion/irritation No information available

Serious eye damage/irritation No information available

Respiratory or skin sensitization No information available

Germ cell mutagenicity No information available

**Carcinogenicity** No information available

Reproductive toxicity No information available

Specific target organ toxicity -

Single exposure

No information available

Specific target organ toxicity -

Repeated exposure

No information available

Aspiration hazard No information available

**SECTION 12: Ecological information** 

**Ecotoxicity** No information available

Persistence and degradability No information available

No information available **Bioaccumulative potential** 

Mobility in soil No information available

Other adverse effects No information available

**SECTION 13: Disposal considerations** 

Waste from residues/unused

products

Dispose of waste product or used containers according to local regulations.

Contaminated packaging Do not reuse container. Dispose of waste product or used containers according to local

regulations.

**SECTION 14: Transport information** 

Sea transport (IMDG)

1197 UN/ID no

**Proper Shipping Name** Extracts, flavoring, liquid

**Hazard Class** 

**Packing group** Ш

Not regulated **Marine Pollutant Special Provisions** None

**EmS No** F-E S-D

Road transport

UN/ID no 1197

**Proper Shipping Name** Extracts, flavoring, liquid

**Hazard Class** 3

**Packing group** 

**Environmental Hazard** Not regulated

**Special Provisions** None **Tunnel restriction code** (D/E)

Air transport (ICAO-TI / IATA-DGR)

1197 UN/ID no

**Proper Shipping Name** Extracts, flavoring, liquid

**Hazard Class** Packing group Ш

**Environmental Hazard** Not regulated

**Special Provisions** None

**SECTION 15: Regulatory information** 

**National Regulations** 

GB/T 16483 Safety Data Sheet For Chemical Products Content and Order of Sections GB/T 17519 Guidance on the compilation of safety data sheet for chemical products

**SECTION 16: Other information** 

# Full text of H-Statements referred to under section 3

H401 - Toxic to aquatic life

H226 - Flammable liquid and vapor

H402 - Harmful to aquatic life

H336 - May cause drowsiness or dizziness

H225 - Highly flammable liquid and vapor

H319 - Causes serious eye irritation

H316 - Causes mild skin irritation

H411 - Toxic to aquatic life with long lasting effects

H311 - Toxic in contact with skin

H302 - Harmful if swallowed

H317 - May cause an allergic skin reaction

EUH066 - Repeated exposure may cause skin dryness or cracking

#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### **Hazard Class**

Flam. Liq.	Flammable Liquids
Acute Tox.	Acute Toxicity
Skin Irrit.	Skin irritation
Eye Irrit.	Eye irritation
Muta.	Germ cell mutagenicity
Carc.	Carcinogenic
Skin Sens.	Skin sensitization
Aquatic Acute	Hazardous to the Aquatic Environment - Acute Hazard
Aquatic Chronic	Hazardous to the Aquatic Environment - Chronic Hazard
Skin Corr.	Skin corrosion
Eye Dam.	Eye Damage
Asp. Tox.	Aspiration toxicity
STOT SE	Specific target organ toxicity - Single exposure
STOT RE	Specific target organ toxicity - Repeated exposure
Repr.	reproductive toxicant

#### Key literature references and sources for data

IFRA-IOFI Labelling Manual 2017 RIFM/IOFI database Supplier

Revision date 13-Sep-2018

Reason for revision Not applicable.

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**End of Safety Data Sheet**