

SAFETY DATA SHEET

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



Issue date 16-Sep-2018

Version 1

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

Product identifier

Product name STU1801957/香蕉香精/BANANA FLAVOR

Details of the Supplier of the Safety Data Sheet

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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
3-Methylbutyl butyrate 106-27-4	106-27-4	>=3 - <5%	Aquatic Acute 2 (H401) Flam. Liq. 3 (H226)
Isopentyl acetate 123-92-2	123-92-2	>=3 - <5%	(EUH066) Flam. Liq. 3 (H226) Aquatic Acute 3 (H402)
N-Butyl acetate 123-86-4	123-86-4	>=1 - <3%	Aquatic Acute 3 (H402) (EUH066) Flam. Liq. 3 (H226) STOT SE 3 (H336)
trans-Hex-2-enal 6728-26-3	6728-26-3	>=1 - <3%	Skin Corr. 3 (H316) 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)

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

	CAS No	Concentration	GHS Classification
Isopentyl acetate	123-92-2	>=3 - <5%	(EUH066) Flam. Liq. 3 (H226) Aquatic Acute 3 (H402)
N-Butyl acetate	123-86-4	>=1 - <3%	Aquatic Acute 3 (H402) (EUH066) Flam. Liq. 3 (H226) STOT SE 3 (H336)

SECTION 4: First aid measures**General advice**

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

Inhalation

Remove casualty to fresh air and keep warm and at rest. In case of respiratory tract irritation, consult a physician.

<u>Skin contact</u>	Change contaminated, saturated clothing. After contact with skin, wash immediately with plenty of water and soap. In case of skin reactions, consult a physician.
<u>Eye contact</u>	In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.
<u>Ingestion</u>	If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.
<u>Symptoms</u>	No known symptoms to date.
<u>Self-protection of the first aider</u>	Use personal protection recommended in Section 8.
<u>Note to physicians</u>	Treat symptomatically.

SECTION 5: Firefighting measures

<u>Suitable extinguishing media</u>	Foam Carbon dioxide (CO ₂) Dry extinguishing powder Sand
<u>Large Fire</u>	Alcohol resistant foam Water spray
<u>Unsuitable extinguishing media</u>	Full water jet
<u>Special hazards arising from the substance or mixture</u>	In case of fire may be liberated Carbon monoxide Carbon dioxide (CO ₂) Burning produces heavy smoke Do not inhale explosion and combustion gases
<u>Specific extinguishing methods</u>	Use water spray jet to protect personnel and to cool endangered containers
<u>Special protective equipment for fire-fighters</u>	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

<u>Personal precautions</u>	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.
<u>For emergency responders</u>	Use personal protection recommended in Section 8.

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

<u>Small spill:</u>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
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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 exhaust at critical locations. Handle and open container with care.

Storage conditions

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 123-92-2	100 MGM3 (TWA) 200 MGM3 (STEL)
N-Butyl acetate 123-86-4	200 MGM3 (TWA) 300 MGM3 (STEL)

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	No data available
Odor	Characteristic
Odor threshold	No data available
pH	No data available
Melting point / freezing point	No data available
Boiling point / boiling range	No data available
Flash point	= 55.00 °C / = 131 °F CC (closed cup)
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Flammability limit in air	
Upper flammability limit	No data available
Lower flammability limit	No data available
Vapor pressure	No data available
Vapor density	No data available
Specific gravity	0.999-1.019 @ 20 °C
Specific gravity	0.996-1.016 @ 25 °C
Water solubility	No data available
Solubility in other solvents	No data available

Partition coefficient: n-octanol/water	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available
Explosive Properties	No data available
Oxidizing Properties	No data available

Other information

Refractive Index 1.419-1.439 @ 20 °C

SECTION 10: Stability and reactivity

<u>Reactivity</u>	None under normal use conditions.
<u>Chemical stability</u>	Stable under normal conditions. Stable under recommended storage conditions.
<u>Possibility of hazardous reactions</u>	None under normal processing.
<u>Conditions to avoid</u>	Extremes of temperature and direct sunlight.
<u>Incompatible materials</u>	Strong oxidizing agents. Strong acids. Strong bases.
<u>Hazardous decomposition products</u>	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)	13,891.00 mg/kg
ATEmix (dermal)	13,364.00 mg/kg

<u>Skin corrosion/irritation</u>	No information available
<u>Serious eye damage/irritation</u>	No information available
<u>Respiratory or skin sensitization</u>	No information available
<u>Germ cell mutagenicity</u>	No information available
<u>Carcinogenicity</u>	No information available
<u>Reproductive toxicity</u>	No information available
<u>Specific target organ toxicity - Single exposure</u>	No information available
<u>Specific target organ toxicity - Repeated exposure</u>	No information available
<u>Aspiration hazard</u>	No information available

SECTION 12: Ecological information

<u>Ecotoxicity</u>	No information available
<u>Persistence and degradability</u>	No information available

Bioaccumulative potential No information available

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)

UN/ID no 1197
Proper Shipping Name Extracts, flavoring, liquid
Hazard Class 3
Packing group III
Marine Pollutant Not regulated
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 III
Environmental Hazard Not regulated
Special Provisions None
Tunnel restriction code (D/E)

Air transport (ICAO-TI / IATA-DGR)

UN/ID no 1197
Proper Shipping Name Extracts, flavoring, liquid
Hazard Class 3
Packing group III
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
H316 - Causes mild skin irritation
H411 - Toxic to aquatic life with long lasting effects
H319 - Causes serious eye irritation

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 16-Sep-2018

Reason for revision Not applicable.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Where the handling, storage and disposal of this material is beyond the immediate control of Takasago, it shall be the user's responsibility to determine safe conditions for use of this product. The user assumes all liability for loss, injury, damage or expense resulting from the improper use of this product.

End of Safety Data Sheet