



Date:2023-03-03

MATERIAL SAFETY DATA SHEET

SECTION 1:IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Number : YL-D57-059

Product Name : 草莓

1.2. Relevant identified uses of the substance or mixture and uses advised against

Perfumed composition

1.3. Details of the supplier of the safety data sheet

Company : Guangzhou ZhuoZhiYue Flavor & Fragrance Co., Ltd.

Address : 205Room. Second Floor, No.1 Changban north Street, Jiahe Community, Guangzhou,Guangdong, China

Phone : +86-20-86175107

Fax : +86-20-36743232

E-mail address : Zhuozhiyue@outlook.com

1.4 Emergency telephone number

008620 861 751 07





SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

- FLAMMABLE LIQUIDS - Category 4
- SKIN CORROSION/IRRITATION - Category 2
- SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
- SKIN SENSITIZATION - Category 1
- TOXIC TO REPRODUCTION (Fertility) - Category 2
- AQUATIC HAZARD (ACUTE) - Category 2
- AQUATIC HAZARD (LONG-TERM) - Category 2

2.2 Label elements

Hazard pictograms :



Signal word : Danger

- Hazard statement** :
- H226 Flammable liquid and vapour.
 - H302 Harmful if swallowed.
 - H304 May be fatal if swallowed and enters airways.
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H318 Causes serious eye damage.
 - H400 Very toxic to aquatic life.
 - H410 Very toxic to aquatic life with long lasting effects.
 - H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

- Prevention** :
- P201 Obtain special instructions before use.
 - P202 Do not handle until all safety precautions have been read and understood.
 - P261 Avoid breathing vapor
 - P264 Wash hands thoroughly after handling.
 - P272 Contaminated work clothing should not be allowed out of the workplace.





	P273	Avoid release to the environment.
	P280	Wear protective gloves. Wear eye or face protection. Wear protective clothing.
Response	: P391	Collect spillage.
	P308 + P313	IF exposed or concerned: Get medical attention.
	P302 + P352 +P362+P364	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.
	P333 + P313	If skin irritation or rash occurs: Get medical attention.
	P305 + P351 +P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician
Storage	: P405	Store locked up.
	P403	Store in a well-ventilated place.
	P235	Keep cool.
Disposal	: P501	Dispose of contents and container in accordance with all local, regional, national and international regulations.

2.3 Other hazards

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS





CHEMICAL NAME	CAS	Hazard classification	%
TRANS-2-HEXENAL	6728-26-3	H302 H315 H317 H319 H341 H411	0-5
RASPBERRY KETONE	5471-51-2	/	0-5
FURANEOL	3658-77-3	H302 H314 H317 H318	0-5
METHYL 2-NONYNOATE	111-80-8	H302 H315 H317 H400 H412	0-5
DIPROPYLENE GLYCOL	25265-71-8	/	> 50
ETHYLENE BRASSYLATE	105-95-3	/	10-50

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available



**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media**

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : Combustible liquid. Runoff to sewer may create fire or explosion. hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

This material is toxic to aquatic life with long lasting effects.

Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products

Decomposition products may include the following materials:
carbon dioxide, carbon monoxide

5.3 Advice for firefighters

Special protective actions for fire-fighters : No action shall be taken involving any personal risk or without suitable training.

Evacuate surrounding areas. Keep unnecessary and unprotected personnel from

entering. Do not touch or walk through spilled material. Shut off all ignition sources.

No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide

adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

Put on appropriate personal protective equipment.





Special protective equipment for fire-fighters : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

See also the information in "For non-emergency personnel".

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

No action shall be taken involving any personal risk or without suitable training.

Move containers from fire area if this can be done without risk.

Use water spray to keep fire-exposed containers cool.

For emergency responders : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6.2. Environmental precautions

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material.

May be harmful to the environment if released in large quantities. Collect spillage.

6.2. Environmental precautions

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material.

May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and materials for containment and cleaning up





- Small spill : Stop leak if without risk.
- Move containers from spill area.
 - Use spark-proof tools and explosion-proof equipment.
 - Dilute with water and mop up if water-soluble.
 - Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container.
 - Dispose of via a licensed waste disposal contractor.
- Large spill : Stop leak if without risk. Move containers from spill area.
- Use spark-proof tools and explosion-proof equipment.
 - Approach release from upwind.
 - Prevent entry into sewers, water courses, basements or confined areas.
 - Wash spillages into an effluent treatment plant or proceed as follows.
 - Contain and collect spillage with noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13).
 - Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
 - Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling





Protective measures : Put on appropriate personal protective equipment (see Section 8).

Persons with a history of skin sensitization problems should not be employed in any process in which this product is used.

Avoid exposure - obtain special instructions before use.

Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood.

Do not get in eyes or on skin or clothing.

Do not breathe vapor or mist.

Do not ingest.

Avoid release to the environment.

Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated.

Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use.

Store and use away from heat, sparks, open flame or any other ignition source.

Use explosion-proof electrical (ventilating, lighting and material handling) equipment.

Use only non-sparking tools.

Empty containers retain product residue and can be hazardous.

Do not reuse container.

Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities





Conditions for safe storage, including any incompatibilities : Store in accordance with local regulations.

Store in a segregated and approved area.

Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see Section 10) and food and drink.

Store locked up.

Eliminate all ignition sources.

Separate from oxidizing materials.

Keep container tightly closed and sealed until ready for use.

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

See Section 10 for incompatible materials before handling or use.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Components with workplace control parameters

8.2. Exposure controls

Appropriate engineering controls : Use only with adequate ventilation.

Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits.

Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.





- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.
- Appropriate techniques should be used to remove potentially contaminated clothing.
- Contaminated work clothing should not be allowed out of the workplace.
- Wash contaminated clothing before reusing.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.
- If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield.
- If inhalation hazards exist, a full-face respirator may be required instead.
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties.
- It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers.
- In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.





Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification.

Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Flash point	:	> 100 ° C
Appearance	:	fluid liquid
Odor	:	no data available
Odor threshold	:	no data available
pH	:	no data available
Melting point / freezing point	:	no data available
Initial boiling point and boiling range	:	no data available
Evaporation rate	:	no data available
Flammability (solid, gas)	:	no data available
Upper/lower flammability or explosive limits	:	no data available
Vapor pressure	:	no data available
Vapor density	:	no data available
Relative density	:	no data available
Solubility(ies)	:	no data available
Partition coefficient: nocturnal/water	:	no data available





Auto-ignition temperature	:	no data available
Decomposition temperature	:	no data available
Viscosity	:	no data available
Explosive properties	:	no data available
Oxidizing properties	:	no data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

The product is stable.

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

10.5 Incompatible materials

Oxidizing materials.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects





Exposure to vapors from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

Splashes in the eyes may cause irritation and reversible damage.

May cause an allergic reaction by skin contact.

11.2 Mixture

No toxicological data available for the mixture.

11.3 Respiratory or skin sensitization

May cause an allergic skin reaction.

11.4 Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. carcinogen by IARC.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted





12.6 Other adverse effects

No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods




Waste : Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

Soiled packaging : Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

SECTION 14: TRANSPORT INFORMATION

	China	IMDG	IATA
UN number	UN3082	UN3082	UN3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetraethyl-2-naphthyl)ethan-1-one)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetraethyl-2-naphthyl)ethan-1-one)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetraethyl-2-naphthyl)ethan-1-one)
Transport hazard class(es)	9	9	9
Packing group	III	III	III
Environmental hazards	Yes	Marine pollutant	Yes
Label			



**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations:**

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I, as amended

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II, as amended

Not listed.

Regulation (EC) No. 850/2004 on persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V, as amended

Not listed.

Authorisations and/or restrictions on use: None

Authorisations:

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use:

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: OTHER INFORMATION**16.1 Title for H indications mentioned in section**



H226	Flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
H303	May be harmful if swallowed
H313	May be harmful in contact with skin
H315	Causes skin irritation
H316	Causes mild skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H361	Suspected of damaging fertility or the unborn child
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

16.2 Abbreviations

ADR	: European agreement concerning the international carriage of dangerous goods by Road.
IMDG	: International Maritime Dangerous Goods.
IATA	: International Air Transport Association.
ICAO	: International Civil Aviation Organization.
RID	: Regulations concerning the International carriage of Dangerous goods by rail.
WGK	: Wassergefahrdungsklasse (Water Hazard Class).

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The product must not be used for any purposes other than those specified under heading 1 without first obtaining written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information given on this safety data sheet must be regarded as a description of the safety requirements relating to our product and not a guarantee of its properties.

