



## SDS Report

No.: GZ1005048788/CHEM

Date: MAY 10, 2010

Page 1 of 1

This report is to supersede report GZ1004039737/CHEM.

The evaluation results of report GZ1004039737/CHEM are taken from report GZ1004039734/CHEM.

Client's Name : HONGKONG HANGSEN INTERNATIONAL TRADING CO., LTD  
Client's Address : UNIT 1003, BLOCK D2, FUTONG CITY PHASE II, XIXIANG AVENUE, BAO'AN DISTRICT, SHENZHEN, CHINA  
SGS Ref No. : GZHG1005000962CO  
Product Name : Fruit Flavor E-Liquid  
End Uses : Electronic Atomized Liquid  
Composition/Ingredient : Damascenone (0.1%); 2,5-dimethylpyrazine (2.0%); Vitamin C (0.2%); Alpha-ionone (1.8%); Glycerin (69.1%); Vanillin (9.0%); Peach aldehyde (1.0%); Citric acid monohydrate (1.5%); Vanilla extract (15.0%); Ethyl maltol (0.3%)  
Job Receiving Date : APR 19, 2010  
Preparation Period : APR 19, 2010 TO APR 26, 2010

### Service Requested

Safety Data Sheet for the Product

### SUMMARY

The contents and format of this SDS are in accordance with REGULATION (EC) No. 1907/2006, EU Commission Directive 1999/45/EC, 67/548/EEC.

\*\*\*\*\*

Signed for and on behalf of  
SGS-CSTC Ltd.

Allen Xie  
Lab. Supervisor

This document is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not generate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.  
Unless otherwise stated, the results shown in this test report refer only to the sample(s) tested. This document cannot be reproduced except in full, without prior approval of the Company.



SGS - Standards Technical Service Co., Ltd  
Guangzhou Testing Service Center Chemical Laboratory

198 Kazhu Road, Sointech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | (86-20) 82155555 | (86-20) 82075125 | www.cn.sgs.com  
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 | (86-20) 82155555 | (86-20) 82075125 | e.sgs.china@sgs.com

Member of the SGS Group (SGS SA)

# Safety Data Sheet

## 1907/2006/EC, 1272/2008/EC

Printing date 10.05.2010

Revision: 26.04.2010

### 1 Identification of the substance/preparation and of the company/undertaking

- **Product details**

- **Trade name:** Fruit Flavor E-Liquid

- **Article number:** MG 6886

- **Registration number:** Not available

- **Application of the substance / the preparation:** Electronic Atomized Liquid

- **Manufacturer/Supplier:**

Company Name: HONGKONG HANGSEN INTERNATIONAL TRADING CO., LTD

Address : UNIT 1003, BLOCK D2, FUTONG CITY PHASE II, XIXIANG AVENUE, BAO'AN DISTRICT, SHENZHEN, CHINA

TEL: +86-755-27793094

FAX: +86-755-27945543

- **Further information obtainable from:** HONGKONG HANGSEN INTERNATIONAL TRADING CO., LTD

- **Information in case of emergency:**

Liu Ping

MP: +86-15013886730

- **Email:** FRANCES@HKHANGSEN.COM

- **Reference Number:** GZHG1005000962CO; GZ1005048788/CHEM

### 2 Hazards identification

- **Hazard description:** Not Applicable

- **Information concerning particular hazards for human and environment:**

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- **Classification system:**

The classification is according to the latest editions of 1907/2006/EC, EU Commission Directive 1999/45/EC, 67/548/EEC, and extended by company and literature data.

### 3 Composition/information on ingredients






- **Chemical characterization**

- **Description:**

Mixture of the substances listed below with nonhazardous additions.

For the wording of listed risk phrases refer to section 16.

- **Dangerous components:**

CAS: 121-33-5 EINECS: 204-465-2	vanillin	 Xn; R 22	9,0%
CAS: 123-32-0 EINECS: 204-618-3	2,5-dimethylpyrazine	 Xn; R 22	2,0%
CAS: 5949-29-1 EINECS: 201-069-1	citric acid monohydrate	 Xi; R 36	1,5%
CAS: 4940-11-8 EINECS: 225-582-5	2-ethyl-3-hydroxy-4-pyrone	 Xn; R 22	0,3%
CAS: 23696-85-7 EINECS: 245-833-2	Damascenone	 F; R 11	0,1%

- **Non-dangerous components:**

CAS: 8024-06-4	Vanilla extract	15,0%
CAS: 127-41-3 EINECS: 204-841-6	4-(2,6,6-trimethylcyclohex-2-ene-1-yl)-but-3-ene-2-one	1,8%
CAS: 104-67-6 EINECS: 203-225-4	Peach aldehyde	1,0%

(Contd. on page 2)

# Safety Data Sheet

## 1907/2006/EC, 1272/2008/EC

Printing date 10.05.2010

Revision: 26.04.2010

**Trade name: Fruit Flavor E-Liquid**

(Contd. of page 1)

CAS: 50-81-7 EINECS: 200-066-2	ascorbic acid	0,2%
CAS: 56-81-5 EINECS: 200-289-5	glycerol	69,1%

**Remark:**
*ascorbic acid (CAS No.: 50-81-7)*
*Synonym: Vitamin C*
*4-(2,6,6-trimethylcyclohex-2-ene-1-yl)-but-3-ene-2-one (CAS No.: 127-41-3)*
*Synonym: Alpha-ionone*
*glycerol (CAS No.: 56-81-5)*
*Synonym: Glycerin*
*2-ethyl-3-hydroxy-4-pyrone (CAS No.: 4940-11-8)*
*Synonym: Ethyl maltol*

### 4 First aid measures

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.

### 5 Fire-fighting measures

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Protective equipment:** Wear fully protective suit.

### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**  
*Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).*
- **Additional information:** See Section 7 for information on safe handling.

### 7 Handling and storage

- **Handling**
- **Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Store away from foodstuffs.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

(Contd. on page 3)

# Safety Data Sheet

## 1907/2006/EC, 1272/2008/EC

Printing date 10.05.2010

Revision: 26.04.2010

Trade name: **Fruit Flavor E-Liquid**

(Contd. of page 2)

· <b>Ingredients with limit values that require monitoring at the workplace:</b>	
<b>56-81-5 glycerol</b>	
PEL (USA)	15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV (USA)	10* ppm *Mist
MAK (Germany)	50E mg/m <sup>3</sup> vgl.Abschn.Xc
<b>121-33-5 vanillin</b>	
WEEL (USA)	10 mg/m <sup>3</sup>
<b>5949-29-1 citric acid monohydrate</b>	
MAK (Germany)	vgl.Abschn.IIb

- **DNELs:** Not available
- **PNECs:** Not available
- **Additional information:** The lists valid during the making were used as basis.

- **Personal protective equipment**

- **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

- **Respiratory protection:** Suitable respiratory protective device recommended.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Goggles recommended during refilling

## 9 Physical and chemical properties

· <b>General Information</b>	
<b>Form:</b>	Liquid
<b>Colour:</b>	Lt-yellow
<b>Odour:</b>	Fruit flavour/Sweet
· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	-65°C
<b>Boiling point/Boiling range:</b>	>250°C
· <b>Flash point:</b>	171°C
· <b>Flammability (solid, gaseous):</b>	Not available
· <b>Ignition temperature:</b>	421,1°C

(Contd. on page 4)

# Safety Data Sheet

## 1907/2006/EC, 1272/2008/EC

Printing date 10.05.2010

Revision: 26.04.2010

Trade name: *Fruit Flavor E-Liquid*

(Contd. of page 3)

· <b>Self-igniting:</b>	<i>Product is not selfigniting.</i>
· <b>Danger of explosion:</b>	<i>Product is not explosive. However, formation of explosive air/vapour mixtures are possible.</i>
· <b>Explosion limits:</b>	
Lower:	<i>Not available</i>
Upper:	<i>Not available</i>
· <b>Oxidizing properties</b>	<i>Not available</i>
· <b>Vapour pressure:</b>	<i>Not available</i>
· <b>Density:</b>	<i>1,125 g/cm<sup>3</sup></i>
· <b>Relative density</b>	<i>Not available</i>
· <b>Vapour density</b>	<i>Not available</i>
· <b>Evaporation rate</b>	<i>Not available</i>
· <b>Solubility in / Miscibility with water:</b>	<i>50 mg/ml</i>
· <b>pH-value:</b>	<i>Not available</i>
· <b>Segregation coefficient (n-octanol/water):</b>	<i>Not available.</i>
· <b>Viscosity:</b>	
Dynamic at 20°C:	<i>56,0 mPas</i>
· <b>Additional information:</b>	<i>Product Nature: Food additive</i>

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **Dangerous decomposition products:** *No dangerous decomposition products known.*

### 11 Toxicological information

- **Acute toxicity**

· <b>LD/LC50 values relevant for classification:</b>		
<b>50-81-7 ascorbic acid</b>		
Oral	LD50	11900 mg/kg (rat)
<b>127-41-3 4-(2,6,6-trimethylcyclohex-2-ene-1-yl)-but-3-ene-2-one</b>		
Oral	LD50	4590 mg/kg (rat)
<b>56-81-5 glycerol</b>		
Oral	LD50	12600 mg/kg (rat)
<b>121-33-5 vanillin</b>		
Oral	LD50	1580 mg/kg (rat)
<b>104-67-6 Peach aldehyde</b>		
Oral	LD50	18500 mg/kg (rat)
<b>5949-29-1 citric acid monohydrate</b>		
Oral	LD50	5040 mg/kg (mouse)
<b>4940-11-8 2-ethyl-3-hydroxy-4-pyrone</b>		
Oral	LD50	780 mg/kg (mouse)
		1150 mg/kg (rat)

- **Primary irritant effect**
- **on the skin:** *Irritating effect possible.*

(Contd. on page 5)

# Safety Data Sheet

## 1907/2006/EC, 1272/2008/EC

Printing date 10.05.2010

Revision: 26.04.2010

**Trade name: Fruit Flavor E-Liquid**

(Contd. of page 4)

- **on the eye:** Irritating effect possible.
- **Sensitization:** Sensitization possible.
- **Other information (about experimental toxicology):**  

Fruit Flavor E-Liquid	Oral	LD50	>10000mg/kg(mouse)
-----------------------	------	------	--------------------
- **Additional toxicological information:**  
 The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.  
 When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.
- **Toxicokinetics, metabolism and distribution:** Not available
- **Acute effects (acute toxicity, irritation and corrosivity):** Not available
- **Repeated dose toxicity:** Not available
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):** Not available

### 12 Ecological information

- **Information about elimination (persistence and degradability):** Not available
- **Behaviour in environmental systems**
- **Mobility and bioaccumulation potential:** Not available
- **Ecotoxicological effects**
- **Aquatic toxicity:** Not available
- **Additional ecological information:**
- **General notes:**  
 Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **PBT assessments:** Not available

### 13 Disposal considerations

- **Product**
- **Recommendation:** Smaller quantities can be disposed of with household waste.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID class:** -
- **Danger code (Kemler):** -
- **UN-Number:** -
- **Packaging group:** -
- **Hazard label:** -
- **Description of goods:** -
- **Limited quantities (LQ):** -
- **Transport category:** -
- **Maritime transport IMDG**
- **IMDG Class:** -
- **UN Number:** -
- **Label:** -
- **Packaging group:** -
- **EMS Number:** -
- **Marine pollutant:** Yes

(Contd. on page 6)

# Safety Data Sheet

## 1907/2006/EC, 1272/2008/EC

Printing date 10.05.2010

Revision: 26.04.2010

Trade name: **Fruit Flavor E-Liquid**

(Contd. of page 5)

- **Segregation groups** -
- **Proper shipping name:** -
- **Air transport ICAO-TI and IATA-DGR**
- **ICAO/IATA Class:** -
- **UN/ID Number:** -
- **Label:** -
- **Packaging group:** -
- **Proper shipping name:** -

### 15 Regulatory information

- **Sara**

- **Section 335(extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313(specific toxic chemical listings):**

None of the ingredients is listed.

- **TSCA(Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65**

- **Chemical known to cause cancer:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogenicity categories**

- **EPA(Environmental Protection Agency)**

None of the ingredients is listed.

- **IARC(International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP(National toxicology Program)**

None of the ingredients is listed.

- **TLV(Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

- **NIOSH-Ca(National Institution for Occupational Safety & Health )**

None of the ingredients is listed.

- **OSHA-Ca(Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Labelling according to EU guidelines:**

The product is not classified as dangerous according to REGULATION (EC) No. 1907/2006, Directive 67/548/EEC and 1999/45/EC.

Observe the general safety regulations when handling chemicals.

- **Special labelling of certain preparations:**

Safety data sheet available for professional user on request.

EU

(Contd. on page 7)

**Safety Data Sheet**  
1907/2006/EC, 1272/2008/EC

Printing date 10.05.2010

Revision: 26.04.2010

Trade name: **Fruit Flavor E-Liquid**

(Contd. of page 6)

### 16 Other information

· **Relevant R-phrases**

11 Highly flammable.

22 Harmful if swallowed.

36 Irritating to eyes.

· \*\*\*\*\*

*The contents and format of this MSDS/SDS are in according with REGULATION(EC) No. 1907/2006, EU Commission Directive 1999/45/EC, 67/548/EEC.*

**DISCLAIMER OF LIABILITY**

*The information in this MSDS/SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in anyway connected with the handling, storage, use or disposal of the product. This MSDS/SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this MSDS/SDS information may not be applicable.*

· \*\*\*\*\*

*End of document*

EU