



SDS Report

No.: GZ1007080736/CHEM

Date: AUG 04,2010

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Client's Name : CHANGNING DEKANG BIOTECHNOLOGY CO.,LTD
Client's Address : 5F,6 DONG ENTREPRENEURIAL INDUSTRY GARDEN
SHANG XIAWEI SHAJING 3 STREET BAOAN SHENZHEN,
CHINA

SGS Ref No. : GZHG1007008907CO
Product Name : FRUIT FLAVOR E-LIQUID
End Uses : SUPPORTING THE USE OF ELECTRONIC ATOMIZER
Composition/Ingredient : Vanilla extract (12%); 2,3,5-trimethylpyrazine (0.3%); 1-Malic
acid (0.8%); beta-Damascenone (0.1%); Acetylpyrazine (0.5%);
Vanillin (3.0%); Ethyl maltol (0.5%); 2,5-Dimethyl pyrazine
(1.0%); Vitamin C (0.2%); Peach aldehyde (0.8%);
Nicotine(0.6%);1,2-propylene glycol(80.2%).

Job Receiving Date : JUL 15,2010
Preparation Period : JUL 15,2010 TO AUG 04,2010

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
Approved Signatory

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Safety Data Sheet

1907/2006/EC, 1272/2008/EC

Printing date 04.08.2010

Revision: 21.07.2010

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

· **Product details**

· **Trade name:** FRUIT FLAVOR E-LIQUID

· **Registration number:** Not available

· **Application of the substance / the preparation:** SUPPORTING THE USE OF ELECTRONIC ATOMIZER

· **Manufacturer/Supplier:**

COMPANY NAME: CHANGNING DEKANG BIOTECHNOLOGY CO.,LTD

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BAOAN SHENZHEN, CHINA

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· **Further information obtainable from:** CHANGNING DEKANG BIOTECHNOLOGY CO.,LTD

· **Information in case of emergency:**

George Xia

MP: +86-13421811719

· **Email:** info@yndekang.com

· **Reference Number:** GZHG1007008907CO; GZ1007080736/CHEM.

2 Hazards identification

· **Hazard description:**



Xn Harmful

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

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 21 Harmful in contact with skin.

· **Classification system:**

The classification is according to the latest editions of 1272/2008/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:**

The substance 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	3,0%
CAS: 123-32-0 EINECS: 204-618-3	2,5-dimethylpyrazine	Xn; R 22	1,0%
CAS: 54-11-5 EINECS: 200-193-3 EU number: 614-001-00-4	nicotine	T+, N; R 25-27-51/53	0,6%
CAS: 23696-85-7 EINECS: 245-833-2	Damascenone	Xi, N; R 43-51/53	0,1%
CAS: 22047-25-2 EINECS: 244-753-5	pyrazin-1-ylethan-1-one	Xi; R 36/37/38	0,5%
CAS: 4940-11-8 EINECS: 225-582-5	2-ethyl-3-hydroxy-4-pyrone	Xn; R 22	0,5%
CAS: 14667-55-1 EINECS: 238-712-0	2,3,5-trimethylpyrazine	Xn, Xi; R 10-22-36/37/38	0,3%

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· Non-dangerous components:		
CAS: 8024-06-4	Vanilla extract	12,0%
CAS: 104-67-6 EINECS: 203-225-4	Peach aldehyde	0,8%
CAS: 97-67-6 EINECS: 202-601-5	L-malic acid	0,8%
CAS: 50-81-7 EINECS: 200-066-2	ascorbic acid	0,2%
CAS: 57-55-6 EINECS: 200-338-0	propane-1,2-diol	80,2%

· **Remark:**

Damascenone (CAS No. :23696-85-7)

Synonym: beta-Damascenone;

Pyrazin-1-ylethan-1-one (CAS No. :22047-25-2)

Synonym: Acetylpyrazine;

2-ethyl-3-hydroxy-4-pyrone (CAS No. :4940-11-8)

Synonym: Ethyl maltol;

Ascorbic acid (CAS No. :50-81-7)

Synonym: Vitamin C;

Propane-1,2-diol (CAS No. :57-55-6)

Synonym: 1,2-propylene glycol.

4 First aid measures

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Rinse with water.

· **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:** No special measures required.

6 Accidental release measures

· **Person-related safety precautions:** Not required.

· **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).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· **Additional information:** See Section 7 for information on safe handling.

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7 Handling and storage

- **Handling**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **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.

- **Ingredients with limit values that require monitoring at the workplace:**

57-55-6 propane-1,2-diol

WEEL (USA)	10 mg/m ³
MAK (Germany)	vgl.Abschn.IIb

121-33-5 vanillin

WEEL (USA)	10 mg/m ³
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54-11-5 nicotine

IOELV (EU)	0,5 mg/m ³ Skin
PEL (USA)	0,5 mg/m ³ Skin
REL (USA)	0,5 mg/m ³ Skin
TLV (USA)	0,5 mg/m ³ Skin
AGW (Germany)	0,5 mg/m ³ 2(II);EU, 13, H

- **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:**
Keep away from foodstuffs, beverages and feed.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **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

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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

· **General Information**

Form:	Clear
Colour:	Light yellow
Odour:	Fruit aromas

· **Change in condition**

Melting point/Melting range:	Not available
Boiling point/Boiling range:	Not available

· **Flash point:** Not available

· **Flammability (solid, gaseous):** Not available

· **Ignition temperature:** Not available

· **Self-igniting:** Product is not selfigniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

Lower:	Not available
Upper:	Not available

· **Oxidizing properties** Not available

· **Vapour pressure:** Not available

· **Density:** Not available

· **Relative density** Not available

· **Vapour density** Not available

· **Evaporation rate** Not available

· **Solubility in / Miscibility with water:** Not available

· **pH-value:** Not available

· **Segregation coefficient (n-octanol/water):** Not available.

· **Viscosity:**

Dynamic: Not available.

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.

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11 Toxicological information

- **Acute toxicity**

- **LD/LC50 values relevant for classification:**

54-11-5 nicotine

Oral	LD50	50 mg/kg (rat)
------	------	----------------

Dermal	LD50	50 mg/kg (rat)
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14667-55-1 2,3,5-trimethylpyrazine

Oral	LD50	806 mg/kg (rat)
------	------	-----------------

121-33-5 vanillin

Oral	LD50	1580 mg/kg (rat)
------	------	------------------

4940-11-8 2-ethyl-3-hydroxy-4-pyrone

Oral	LD50	780 mg/kg (mouse)
------	------	-------------------

		1150 mg/kg (rat)
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50-81-7 ascorbic acid

Oral	LD50	11900 mg/kg (rat)
------	------	-------------------

104-67-6 Peach aldehyde

Oral	LD50	18500 mg/kg (rat)
------	------	-------------------

57-55-6 propane-1,2-diol

Oral	LD50	2000 mg/kg (rat)
------	------	------------------

Dermal	LD50	20800 mg/kg (rabbit)
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- **Primary irritant effect**

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

- **on the eye:** Irritating effect possible.

- **Additional toxicological information:**

The product shows the following dangers if electrolyte leakage occurs according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

- **Toxicokinetics, metabolism and distribution:** Not available

- **Acute effects (acute toxicity, irritation and corrosivity):** Not available

- **Repeated dose toxicity:** 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 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- **PBT assessments:** Not available

13 Disposal considerations

- **Product**

- **Recommendation:**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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- **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:** No
- **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):**

54-11-5 | nicotine

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

54-11-5 | nicotine

- **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:**

54-11-5 | nicotine

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- **Carcinogenity 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 has been classified as dangerous according to Directives 67/548/EEC, 1999/45/EC and 1272/2008/EC.

Observe the general safety regulations when handling chemicals.

- **Code letter and hazard designation of product:**



Xn Harmful

- **Hazard-determining components of labelling:**

nicotine

- **Risk phrases:**

21 Harmful in contact with skin.

- **Safety phrases:**

2 Keep out of the reach of children.

36/37 Wear suitable protective clothing and gloves.

46 If swallowed, seek medical advice immediately and show this container or label.

56 Dispose of this material and its container to hazardous or special waste collection point.

- **Special labelling of certain preparations:**

Contains Damascenone. May produce an allergic reaction.

16 Other information

- **Relevant R-phrases**

10 Flammable.

22 Harmful if swallowed.

25 Toxic if swallowed.

27 Very toxic in contact with skin.

36/37/38 Irritating to eyes, respiratory system and skin.

43 May cause sensitization by skin contact.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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

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EU