

ANALYSIS REPORT

Report Number: SZ12-0831050-A2

Date Received: August 31st, 2012

Applicant: Shenzhen Joyetech Flavors & Frangrances Co., Ltd.

Sample Name: Vaporizer Flavor

Tel: 0086-755-33193197

Sample Info: 2012/8/29 Bottle of Liquid

Fax: 0086-755-33193184

Date Issued: September 24th, 2012

Applicant Address: 2F, B-28, Heyi Beifang Tech. Industrial Park, Shajing Town, Baoan district, Shenzhen, China

Test Requested:

Test as requested by applicant: Acute Oral Toxicity Test*

Test method: Hygienic Standard for Cosmetics (2007 version).

Test Period: August 31st, 2012 – September 24th, 2012

Conclusion:

According to the acute toxicity classification standard of Hygienic Standard for Cosmetics (2007 version)-Acute Toxicity Test, the test median lethal dose (LD_{50}) was higher than 5000 mg/kg bw. The sample "Vaporizer Flavor" is classified to practically non-toxic grade.

Authorized Representative



Woce Wu

Technical Supervisor

1. Samples and names were provided by the client. The lab was responsible for analysis only.
2. The analysis results are only effective for the samples in this report.
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6. N.D. means Non Detected.
7. Positive means Detected. Negative means Non Detected.



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1 Test environment:

SPF animals house. Certificate No.: SYXK 2008-0086, Guangdong. Room temperature: $22\pm 1^{\circ}\text{C}$, Relative humidity: $60\pm 5\%$.

2 Test animal and feed:

10 Healthy SPF Kunming mice were selected, each weighed 18 ~ 21g, respectively in half male and female. Experimental animals and feed were supplied by Guangdong Medical Experiment Animal Center, Animal production certificate No.: SYXK 2008-0002, Guangdong; Animal certificate NO. 0113848.

3 Preparation of Sample:

Took 20.0 g of sample and added pure water to 80 mL. The solution was stirred uniformly as the test substance.

4 Test Steps:

4.1 Dosage:

Adopt one-time limited dose method. Experiment design dosage was 5000 mg/kg bw.

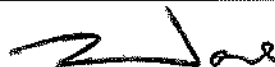
4.2 Method of gavage:

Animals were fasted for 16 hours prior to dosing, and at the same time allowed to drink water freely. The test substance was fed to mice by gavage at a dose of 0.2mL/10g bw, and then the test animals were fed with ordinary diet.

4.3 Observation period:

Observed the experiment for 14 days. Recorded poison symptom and death everyday, and calculated LD_{50}

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5 Results:

- 5.1** After filling the stomach, all the animals hair, skin, breathing and behavior were not found any obvious change; Tremor, twitching, salivate, diarrhea, sleepiness and coma etc. poisoning symptoms and death were not found during 14 days observation period.
- 5.2** The experimental animals were found normal growth and development, normal body weight change during 14 days observation period, see table 1
- 5.3** Abnormal organ of heart, liver and spleen lung kidney and etc. organs were not found in experimental animals gross anatomy.
- 5.4** During the experiment, no poisoning symptoms and death among the female and male mice were found. Therefore the mouse acute oral median lethal dose (LD50)> 5000 mg/kg bw.

Table 1 -The result of acute oral toxicity test

Gender of animals	Dose Group (mg/kg.bw)	Test animals (pieces)	body weight ($\bar{x} \pm SD$) (g)			Death animals(pieces)	Death rate(%)
			0 day	7 days	14 days		
Female	5000	5	18.39±0.37	26.25±1.08	29.87±1.48	0	0
Male	5000	5	18.75±0.59	27.36±1.31	32.02±1.74	0	0

*** Test were conducted by sub-contracted laboratory

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