



Product Evaluation of Pet Cosmetics/ Pet Care Product

The Testing Institute and Assessment Body

SGS Hong Kong Limited

Confirms based on:

SGS test results (report # HKHC2110008337HC, HKHC2110008338HC)

Product Evaluation of DDY Mineral Pet Shampoo as Distributed by DDY Scientific Health and Beauty Ltd.:

- The cosmetic formulation is unlikely to pose a significant risk to the health of intended pets when it is use as instructed.
- The submitted product sample has been tested by SGS and is considered to be satisfactory concerning heavy metals, microbial contamination, 1,4-dioxane, free formaldehyde and methanol.

Date of issue of the product evaluation: Nov 05th, 2021

A handwritten signature in cursive script, appearing to read 'Mei-Yin CHIU'.

Mei-Yin CHIU
MPH, MSc, FRSB, CBiol
European Registered Toxicologist (ERT)
Diplomate of American Board of Toxicology (DABT)

SGS General Conditions and Additional Conditions apply (reserved)

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Test Report

No. HKHC2110008337HC

Date :Nov 05, 2021

Page 1 of 5

DDY SCIENTIFIC HEALTH AND BEAUTY LTD
7/F, KAI KWONG COMMERCIAL BUILDING,332-334 LOCKHART ROAD,WANCHAI, HONG KONG

The following sample was submitted and identified by the client as DDY Mineral Pet Shampoo (1 formulation)

Net Weight : 500ml per consumer product
SGS Report No. : HKHC2110008337HC
SGS Case No. : HKHC211000003139-101
Sample Receiving Information : Formulation with chemical name, CAS no. and percentage
Country of Origin : Taiwan
Manufacturer : Star Hein International Co., Ltd.
Distributor : DDY Scientific Health and Beauty Ltd.
Country of Destination : Hong Kong
Sample Receiving Date : Oct 25, 2021 – Nov 04, 2021
Test Period : Oct 25, 2021 – Nov 05, 2021

Test Requested

Toxicological Risk Assessment (TRA) for said product.

Test Results

Please refer to the following pages.

Conclusion

Please refer to *Section IV: CONCLUSION*.

Signed for and on behalf of
SGS Hong Kong Ltd.

Mei-Yin CHIU
MPH, MSc, FRSB, CBiol
European Registered Toxicologist (ERT)
Diplomate of American Board of Toxicology (DABT)

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TOXICOLOGICAL RISK ASSESSMENT

The formulation of DDY Mineral Pet Shampoo is reviewed. The product is for Hong Kong market and intended for cleansing the body of cats and dogs by human adult (users). Only the formulation of shampoo is assessed while the claim and efficacy are not evaluated and verified in this assessment. The net weight of the shampoo (The formula under assessment) is 500ml per consumer product. Detailed formulation is submitted by the client. Ingredients are not presented in the report, whereas they are recorded in the SGS Archives.

This risk assessment takes account of:

Corrosivity
Skin irritation
Eye irritation
Strong sensitization
Oral toxicity
Inhalation toxicity

According to:

General principle of toxicology

The followings were considered in this toxicological assessment

Ingredient toxicological profile
Potential ingredient interaction
Consumer exposure scenario

Section I. FORMULATION REVIEW

According to the client's needs to protect business secrecy, detailed formulations are NOT presented in this report, whereas they are recorded in the SGS Archives. In case of medical events, it is the client's responsibility to provide the formulations to a patient's physician, or SGS upon request may furnish relevant medical units, on a confidential basis, information necessary to diagnose or treat cases of exposure without prior written authorization.

There is no specific chemical classification system in Hong Kong and the classification according to EU is taken reference of. The formulation is not classified according to Regulation (EC) No 1272/2008 taking reference of the submitted SDS.

No fragrance has been indicated to be present in the formulation

Section II. CONSUMER HEALTH RISK ASSESSMENT

Afore-mentioned formulation has been reviewed for safety at the basis of the following assumptions.

Exposure assessment

The following assumptions have been made for assessment of exposure:

- Product category: Pets shampoo
- Physical form: Liquid
- Intended use (suggested use): For cleaning the body of cats and dogs
- Accessibility: This product will contact the pets and users directly
- Exposure route(s): Primarily via dermal contact
- Default body weight: 3-10 kg for cats; 2-70 kg for dogs
- Target population: Cats and dogs

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Section III. RISK EVALUATION

This shampoo is intended for cleaning and removing of dirt on skin and coat of cats and dogs by users. According to the using instruction, pet's body is wetted with warm water and the diluted shampoo will be applied on the whole body including the teeth. Then the area of application is rubbed and rinsed with water. It is indicated that the shampoo will be used once a week and a cap of shampoo (around 10 ml) is diluted with 50ml-100ml water for use.

The diluted shampoo is expected to contact the skin and coat of pets briefly when used as intended. Accidental exposure to eyes may cause irritation but is expected to be minimal after rinsing. Inhalation is not a significant route of administration. Ingestion of diluted shampoo is possible when it is applied on teeth briefly and then rinse-off but the amount is expected to be very small.

The shampoo is expected to contact the skin, mainly the hands, of the users during the cleansing. Direct contact with the eye is expected to be minimal under normal and reasonably foreseeable conditions of use. Inhalation and ingestion are not a significant route of administration.

None of the ingredients at a level found in this product is expected to pose significant adverse health effects in pets and users when used as instructed. However, due to the presence of naturally occurring allergenic fragrances of sensitizing potential from the essential oils, the product should be rinsed off thoroughly from the skin and coat of the pet as well as the users' skin and keep out of reach of children.

Provided the manufacturer's instructions are followed and the ingredients used are of acceptable chemical purity and do not contain significant amounts of residues and contaminants, the product is unlikely to cause damage to internal organs through skin in the majority of cats and dogs as well as the users when used as directed.

Section IV. CONCLUSION

Provided the manufacturer's instructions are followed and all the ingredients used in the formulation are of acceptable grade, it is considered that, in the present state of knowledge, the submitted formulation put on the market is unlikely to pose a significant risk to the health of intended pets.

Recommended Safety Labelling

Used as directed.

External use for animals only.

Avoid eye area when applying the shampoo.

Rinse off the shampoo thoroughly

Keep out of reach of children.

The TRA assessment is valid under the following conditions:

1. Potential physical, mechanical, electrical and microbiological risks of the product have not been assessed and evaluated.
2. The formulation, description and other supporting documents of the product were assumed to be valid and accurate.
3. It was assumed that either the ingredients, or the finished product contain no contaminants or residues that cause toxicity to a consumer who may be exposed. All polymers should be well-cured if they are present in the formulation.

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4. The risk evaluation can solely be applied to and appropriate for, the product described above under the stated conditions. Modification of any components of the finished product, such as net weight, adjustment of ingredient concentrations, should therefore require re-evaluation.
5. Heavy metal contents in the product were not assessed and evaluated.
6. This product has been assessed for compliance only with the regulation(s) specified herein.
7. If there is an adverse reaction from using this formulation then the undersigned should be informed so that the formulation can be further reviewed.
8. This product has been evaluated for health effect only, environmental concern/ ecotoxicity is not assessed in this report.
9. The assessment is performed by in-house method, taking reference of available consumer product exposure database, literature data to the best of knowledge by the time of assessment.

The validity of this review depends on accurate disclosure by both the manufacturer(s) of the components and of the finished products. Best professional capabilities are used in performing this review. If client wishes to use this opinion with any alterations to the submitted formula, SGS (HK) Ltd. or any of its employees will not be held liable for any injury or damage resulting from this product. A review of this assessment should be programmed at regular and frequent intervals (upon reformulation of the components or the finished products or upon any change to health and safety regulations).

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Only the DDY Mineral Pet Shampoo is assessed in this report



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Test Report

No. HKHC2110008337HC

Date :Nov 05, 2021

Page 5 of 5

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Test Report

No. HKHC2110008338HC

Date :Nov 04, 2021

Page 1 of 5

DDY SCIENTIFIC HEALTH AND BEAUTY LTD
7/F, KAI KWONG COMMERCIAL BUILDING,332-334 LOCKHART ROAD,WANCHAI,Hong Kong

Job No. : HKHC211000003139

The following sample was submitted and identified by the client as DDY Mineral Pet Shampoo

Product Description : DDY Mineral Pet Shampoo
Quantity Received : 1 bottle x 500 ml/bottle
Sample Appearance : Transparent viscous liquid
SGS Sample No. : HKHC211000003139-101
Sample Receiving Condition : In unopened plastic bottle original package under ambient condition
Sample Receiving Date : Oct 27, 2021
Testing Period : Oct 27, 2021 – Nov 04, 2021

Test Requested, Test Methods and Test Results

Please refer to the following page(s).

Signed for and on behalf of
SGS Hong Kong Ltd.

HO CHI MING, RICKY
SENIOR MANAGER

Signed for and on behalf of
SGS Hong Kong Ltd.

WONG KIN MAN, GILMAN
TECHNICAL DEVELOPMENT MANAGER

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Test Report

No. HKHC2110008338HC

Date :Nov 04, 2021

Page 2 of 5

Test Requested

1. To perform Arsenic, Lead, Mercury and Cadmium analyses on the submitted sample.
2. To perform Total Bacterial Count, Total Combined Moulds & Yeast Count , Pseudomonas aeruginosa, Staphylococcus aureus and Thermotolerant Coliform Bacteria analyses on the submitted sample.
3. To determine the content of Methanol in the submitted sample.
4. To determine the content of Free Formaldehyde on the submitted sample.
5. To determine the content of 1,4-Dioxane in the submitted sample.

Test Methods

1. Heavy Metal Contamination
The analyses were performed by in-house method employing microwave digestion followed with Inductively Coupled Argon Plasma Mass Spectrometry.
2. Microbial contamination
The analyses were performed with reference to Safety and Technical Standards for Cosmetics 2015.
3. Methanol
The analysis was performed by Headspace Gas Chromatography Mass Spectrometry Measurement.
4. Free Formaldehyde
The analysis was performed with reference to the European Directive 90/207/EC employing High Performance Liquid Chromatography - Photodiode Array Detector.
5. 1,4-Dioxane
The analysis was performed by in-house method employing Headspace Gas Chromatography equipped with Mass Spectrometry.

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Test Report

No. HKHC2110008338HC

Date :Nov 04, 2021

Page 3 of 5

Test Results

<u>Parameter</u>	<u>SGS Sample No.:</u> <u>HKHC211000003139-101</u>	<u>Limit #</u>
<i>(1) Heavy Metal Contamination</i>		
Arsenic (As)	< 0.076 mg/kg (ppm)	≤ 2 mg/kg (ppm)
Cadmium (Cd)	< 0.076 mg/kg (ppm)	≤ 5 mg/kg (ppm)
Lead (Pb)	0.040 mg/kg (ppm)	≤ 10 mg/kg (ppm)
Mercury (Hg)	< 0.038 mg/kg (ppm)	≤ 1 mg/kg (ppm)
<i>(2) Microbial Examination</i>		
Total Viable Count for aerobic mesophyllic micro-organism		
- Total Bacterial Count	< 10 cfu/ g	≤ 1000 colony/ g for non-eye/ lip area use
- Total Combined Moulds & Yeast Count	< 10 cfu/ g	≤ 100 cfu/ g
Thermotolerant Coliform Bacteria	Absent / g	Absent/ g
Pseudomonas aeruginosa	Absent / g	Absent/ g
Staphylococcus aureus	Absent / g	Absent/ g
<i>(3) Methanol</i>	Not detected	≤ 2000 mg/kg
<i>(4) Free Formaldehyde</i>	Not detected	0.2% (w/w)
<i>(5) 1,4-Dioxane</i>	Not detected	≤ 30 mg/kg

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Test Report

No. HKHC2110008338HC

Date :Nov 04, 2021

Page 4 of 5

Note :

1. Results reported on the submitted sample on an as received basis.
2. < = less than
3. ≤ = not more than
4. Not Detected = below the Detection Limit
5. The Detection Limit of Free Formaldehyde was 0.02% (w/w).
6. The Detection Limit of Methanol is 25 mg/kg.
7. The Detection Limit of 1,4-Dioxane was 1.0mg/kg (ppm).
8. # = Limits:
Safety and Technical Standards for Cosmetics, 2015 edition, China Food and Drug Administration
 - (i) Heavy Metal Contamination - Part 1 General, Table 2 (3.4) Restricted Limit of Harmful Elements in Cosmetic Products.
 - (ii) Microbiological Requirements - Part 1 General (3.3) in Safety and Technical Standards for Cosmetics, 2015 edition.
 - (iii) Methanol - Part 1 General, Table 2 (3.4) Restricted Limit of Harmful Elements in Cosmetic Products.
 - (iv) Free Formaldehyde - Part 3, Table 4 (23) List of Permitted Preservatives [*For other products as preservatives*]
 - (v) 1,4-Dioxane - must not form part of the composition of the cosmetic products with reference to the Part 1 General, Table 2 from the Hygienic Standard of Cosmetics. However, 30 mg/kg is the restricted limit provided that such presence is technically unavoidable according to the notice from the State of Food and Drug Administration (SFDA), PRC dated February 6, 2012.

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Test Report

No. HKHC2110008338HC

Date :Nov 04, 2021

Page 5 of 5

Sample Receiving Date : Oct 27, 2021

PHOTO APPENDIX



HKHC211000003139-101

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