



Test Report

No. HKHC1707005511HC

Date :Jul 28, 2017

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PINEAL LIMITED
UNIT A, 18/F, GENESIS, 33-35 WONG CHUK HANG ROAD, WONG CHUK HANG, HONG KONG

The following sample was submitted and identified by the client as RAZE (1 formulation).

Net Weight : 1000 mL of liquid per consumer product
SGS Report No. : HKHC1707005511HC
SGS Case No. : HKHC170700002560 (GZCPCH170702160)
Sample Receiving Information : Formulation with chemical name, CAS no. and percentage
Country of Origin : China
Country of Destination : US
Labeled Age Grading : 16 - 65 years old
Sample Receiving Date : Jul 11 – Jul 21, 2017
Test Period : Jul 11 – Jul 28, 2017

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.

Ka-Yiu YIP
PhD, CBiol, MRSB, MBTS
Cosmetic Safety Assessor

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TOXICOLOGICAL RISK ASSESSMENT

The formulation of RAZE – Transparent cleaning liquid is reviewed. The product (liquid spray) is for US market and intended for furniture cleaning by adults. The net weight of cleaning liquid (The formula under assessment) is 1000 mL of liquid per consumer product.

This risk assessment takes account of:

Corrosivity
Skin irritation
Eye irritation
Strong sensitization
Oral toxicity
Inhalation toxicity

According to:

16 CFR 1500.3(c)(4), 1500.3(c)(2), 1500.3(c)(3) and 1500.3(c)(5)

The followings were considered in this toxicological assessment

Ingredient toxicological profile
Potential ingredient interaction
Consumer exposure scenario

Section I. FORMULATION REVIEW

Ingredient Name	CAS RN	% By Weight
Polyethylene Glycol - PEG-2000 (40% active)	25322-68-3	32.0
Polyethylene Glycol - PEG-300 (80% active)	25322-68-3	22.0
Polysorbate 80 (50% active)	9005-65-6	20.0
Citric Acid	5949-29-1	9.0
Arginine	74-79-3	6.0
Titanium Dioxide	13463-67-7	3.0
Tungsten Oxide	1314-35-8	2.0
Sodium Molybdate	10102-40-6	2.0
PPG-4 Lauryl Ether	9064-14-6	2.0
Polyacrylic Acid (10% active)	9003-01-4	1.0
Sulfuric Acid (10% active)	7664-93-9	0.5
Hydrogen Peroxide (10% active)	7722-84-1	0.5

The formulation is classified according to OSHA Hazard Communication Standard 29 CFR 1900.1200 as follow:

Eye Irrit. 2 H319 Causes serious eye irritation

No allergenic fragrance has been indicated to be present in the formulation.

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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: Furniture cleaning spray
- Physical form: Transparent liquid
- Intended use (suggested use): Spraying or brushing on furniture and then wipe off with a clean cloth
- Accessibility: This product will contact with the consumer directly
- Exposure route(s): Primarily via dermal contact
- Default body weight: 65 kg
- Target population: Adults

Section III. RISK EVALUATION

The formulation of the cleaning liquid is classified as "Causes serious eye irritation" due to significant levels of Citric Acid (CAS RN 5949-29-1) and Arginine (CAS RN 74-79-3) in the formulation. Although the product is classified as such, the product is not expected to be applied near eye area under normal and reasonably foreseeable conditions of use. Therefore the risk of causing eye and skin irritation under normal and reasonably foreseeable conditions of use would be minimal. Appropriate safety labeling should be applied to minimize ocular exposure and to provide first aid instructions.

Provided that the manufacturer's instruction is followed, the ink is unlikely to cause damage to internal organs through skin, ingestion and inhalation in majority of consumers under normal and reasonably foreseeable conditions of use. However, the product is required to be labeled accordingly due to the potential hazards.

Section IV. CONCLUSION

The formulation is not expected to cause acute or chronic skin irritation, acute or chronic oral, dermal or inhalation toxicity or be a strong sensitizer or corrosive provided the manufacturer's instructions are followed; but is expected to cause eye irritation as defined in 16 CFR 1500.3(c)(4), 1500.3(c)(2), 1500.3(c)(3) and 1500.3(c)(5). Provided the manufacturer's instructions are followed, 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 consumers under normal and reasonably foreseeable conditions of use. However, the product is required to be labeled accordingly due to the potential hazards. The following labeling is required from the point of safety.

Required Safety Labeling

Keep out of reach of children. For adult use only.

Rinse hands thoroughly after use.

IF IN EYES: Rinse cautiously with water for several minutes.

If eye irritation persists: Get medical advice/attention.

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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.
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 human health 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.
10. This product has not been assessed for compliance with California Proposition 65 & TSCA inventory list.

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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***** End of Report *****

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