



## Test Report

No. HKHC2003001520HC

Date :Mar 25, 2020

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RHT INDUSTRIES LIMITED  
UNIT 208-209, WIRELESS CENTRE, NO. 3 SCIENCE PARK EAST AVENUE, HONG KONG SCIENCE  
PARK, PAK SHEK KOK, SHATIN, NEW TERRITORIES, Hong Kong

The following sample was submitted and identified by the client as NCCO IG

Net Weight : 30 mL (68 g), 50 mL (113 g) or 100 mL (227 g) per consumer product  
SGS Report No. : HKHC2003001520HC  
SGS Case No. : HKHC200300000795 -101  
Sample Receiving Information : Formulation with chemical name, CAS no. and percentage  
Region of Origin : Hong Kong  
Region of Destination : Hong Kong  
Labelled Age Grading : 1+  
Sample Receiving Date : Feb 26 – Mar 09, 2020  
Test Period : Feb 26 – Mar 13, 2020

### Test Requested

This Toxicological Risk Assessment (TRA) is carried out according to general principle of toxicology and taking reference of EU and US cosmetic regulations and standards.

### Test Results

Please refer to the following pages.

### Conclusion

Please refer to *Section IV: CONCLUSIONS*.

Signed for and on behalf of  
SGS Hong Kong Ltd.

Mei-Yin CHIU, Sony  
MSc, FRSB, CBiol, ERT, DABT  
Cosmetic Safety Assessor

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### TOXICOLOGICAL RISK ASSESSMENT

#### INTRODUCTION

SGS is requested to review the safety of the product formula NCCO IG for consumer health and no other part of the product. The product is for Hong Kong market and intended for application on hands after hand wash for keeping it in good condition by children of one year old or above. This product is assessed as a cosmetic based on general principle of toxicology and taking reference of the EU and US cosmetic regulations and standards while the efficacy and claim (if there is any) of the product is not verified or evaluated in this assessment. The net weight of the product (The formulation under assessment) is 30 mL, 50 mL or 100 mL per consumer product. Detailed formulation is submitted by the client as in Section I.

#### LITERATURE SOURCES

This review was compiled by using information gathered from raw material suppliers and various online databases including the EU Scientific Committee on Consumer Safety (SCCS) opinions, Cosmetic Ingredients Review (CIR); detailed references are not reported here but are recorded in the SGS Scientific Archives.

#### Section I : FORMULATION

##### Fragrance

No parfum is present in the formulation.

#### Section II : MANUFACTURING AND PRODUCT QUALITY

No information about manufacturing is available. It is highly recommended that the product is manufactured according to Good Manufacturing Practice (GMP). The product shall be of acceptable microbiological quality with effective preservative system and stability to substantiate its safety throughout the expected product lifecycle.

It is indicated that the polymers in the formulation are well-cured and do not contain significant amounts of residual monomers, solvents and contaminants. The ingredients used shall fulfill corresponding purity requirements. It is assumed that all the ingredients in this product contain no contaminants or residues at level that would be toxic, corrosive or irritating to the skin, eyes or mucous membranes, or cause a sensitization reaction in a consumer who may be exposed. If it is not the case, it will void this assessment.

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**Section III : CONSUMER HEALTH RISK ASSESSMENT**

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

**Consumer Exposure Scenario**

The following assumptions have been made for assessment of exposure:

- Product category: Hand lotion
- Physical form: Liquid
- Intended use (suggested use): Application on hands after hand wash for keeping them in good condition
- Frequency of use: 730 times per year (hand lotion) or 1825 times per year (after hand wash)
- Exposure route(s): Primarily via dermal contact and inhalation of tiny amount of volatiles
- Amount per application: 1.7 g
- Exposure area: 302 cm<sup>2</sup>
- Exposure duration: 720 minutes or 192 minutes
- Body weight: 11.4 kg
- Target population: Children of one year old or above

**Risk Characterization for Consumer Health****Local Effects**

**Irritation:** The product is not expected to cause skin and eye irritation under normal and reasonably foreseeable conditions of use. Accidental exposure of eyes may cause irritation, but the effect is expected to be minimal after rinsing.

**Sensitization:** There are no substances of known allergenic potentials and is not expected to produce sensitization in the majority of consumers.

**Phototoxicity:** Exposure to this product is unlikely to result in phototoxic effects.

**Systemic Effects**

Provided the manufacturer's instructions are followed, all the ingredients used are of cosmetic or appropriate grade while the polymer is well-cured, this formulation is unlikely to cause damage to internal organs through skin under normal and reasonably foreseeable conditions of use. However, the product is intended for children of one year old or above who are more frequently associated with licking and sucking action. Although the formulation is not expected to be orally toxic when used as directed but just like ingestion of any non-food material, ingestion of significant amount of the product would cause discomfort and even harmful on repeated ingestion by intention or through hand-to-mouth transfer. It is recommended to change the intended users from children of one year to 3 years or above. It is also recommended to label the product to ensure its proper use. If there is an adverse reaction from using this formulation, then the undersigned should be informed so that the formulation can be further reviewed.

**Joint Toxic Action**

Based on current knowledge, joint toxic action is not anticipated.

**Section IV : CONCLUSIONS:**

Provided the manufacturer's instructions are followed and all the ingredients used are of cosmetic or appropriate grade while the polymers are well-cured, 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 consumer under normal and reasonably foreseeable conditions of use. The product should be used by children of 3 years old or above. The product should be labelled to ensure its proper use and the following is suggested based on toxicological point of view.

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The product is highly recommended to be manufactured according to Good Manufacturing Practice (GMP). The product shall be of acceptable microbiological quality with effective preservative system and stability to substantiate its safety throughout the expected product lifecycle.

### Recommended Safety Labelling

For external use only.

Keep out of reach of children and use under adult supervision.

Avoid contact with the eye. Rinse eye immediately should the product comes into contact with them.

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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