

## Test Report

No. SHAHG1713569501

Date: July 21, 2017

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**SOYANG TECHNICAL TEXTILE (ZHEJIANG) CO., LTD.**

**NO.36 JINNIU ROAD, JIANSHAN DISTRICT, HAINING CITY, ZHEJIANG PR., CHINA.**

The following sample was submitted and identified by the client as NIGHT STAR (BLACKOUT KNITTED FABRIC) (1 formulation).

Net Weight/Volume : 115 g /pc  
Style/Item No. : ST-216  
Buyer : Unspecified  
Manufacturer : Unspecified  
Region of Origin : China  
Region of Destination : USA  
Sample Receiving Date : Jun 27, 2017  
Test Period : Jul 14 ~ Jul 21, 2017  
Reference No. : SHHL1706033811SD

### Test Requested

Toxicological Risk Assessment (TRA) for the said product according to request from the client.

### Test Results

Please refer to the following pages.

### Conclusion

Please refer to *Section IV: CONCLUSIONS*.

Signed for and on behalf of

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.



Kejun You, Grady

Certified Toxicologist of CST

Cosmetic Safety Assessor

Regulatory Toxicologist & Counselor



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**TOXICOLOGICAL RISK ASSESSMENT**

The aim of this report is to assess the safety of the formulation of NIGHT STAR (BLACKOUT KNITTED FABRIC) – paint on fabrics under normal and reasonable foreseeable conditions of use. The formulation is intended to be printed on fabrics as coating for exhibition by adult.

**The risk assessment takes account of:**

Skin irritation  
Eye irritation  
Strong sensitization  
Oral toxicity  
Inhalation toxicity

**The followings were considered in this toxicological assessment for all ingredients and the finished product:**

Ingredient toxicological profile  
Potential ingredient interaction  
Consumer exposure scenario

**Section I. FORMULATION REVIEW**

*According to the client's needs and to protect business secrecy, detailed formulation is 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 formulation to a patient's physician, or SGS upon request may furnish relevant medical units, on a confidential basis, with information necessary to diagnose or treat cases of exposure without prior written authorization.*

**No allergenic 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: paint on fabrics;
- Physical form: solid;
- Intended use (suggested use): to be printed on fabrics as coating for exhibition;
- Accessibility: this product may contact with the consumer directly;
- Exposure route(s): primarily via dermal contact, potentially eye contact and inhalation of dust;



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- Default body weight: 60 kg;
- Target population: adult.

**Section III. RISK EVALUATION**

Diantimony Trioxide (CAS No.: 1309-64-4) is contained in the formulation at 7.24% (w/w), which is classified as “possibly carcinogenic to humans” (Group 2B) by IARC, “H351: Suspected of causing cancer” by Regulation (EC) No 1272/2008 (CLP Regulation); however, it is not expected to pose a significant risk of lung cancer by inhalation taking into consideration of its solidifying feature, the target consumers and the limited exposure under normal and reasonably foreseeable conditions of use when only tiny amount of dust is expected to be released especially after dilution with ambient air. In addition, the legal airborne permissible exposure limit (PEL), the recommended airborne exposure limit (REL) and the Threshold Limit Value (TLV) for Diantimony Trioxide are 0.5 mg/m<sup>3</sup> set by Occupational Safety and Health Administration (OSHA), National Institute for Occupational Safety and Health (NIOSH) and American Conference of Governmental Industrial Hygienists (ACGIH), respectively.

The submitted formulation is intended to be printed on fabrics as coating for exhibition, which is unlikely to cause irritation by intact skin contact. Accidental exposure of the eye may result irritation, but exposure via dermal contact to eye transfer is brief and limited in this product. Moreover, the formulation is not expected to produce skin sensitization in the majority of consumers. Furthermore, the amount of the ingredients contained in the product does not contain any material in quantity sufficient enough to cause chronic toxicity among users, when used for its intended purpose.

**Section IV. CONCLUSION**

The submitted formulation is not expected to cause acute or chronic skin and eye irritation, acute or chronic oral, dermal or inhalation toxicity or be a strong sensitizer as defined in 16 CFR 1500.3(c)(4), 1500.3(c)(2), 1500.3(c)(2)(ii) and 1500.3(c)(5) provided the manufacturer’s instructions are followed. Taking into account the way the product is used, in the present state of knowledge, it is estimated that under normal condition of use, this product is unlikely to constitute significant health risks to the consumers. However, to avoid misuse/abuse of this product, below danger statement is required to minimize the risks.

**Recommended Safety Labeling:**

Contains Diantimony Trioxide (CAS No.: 1309-64-4)

**DANGER: MAY CAUSE LUNG CANCER BY INHALATION.**

Avoid inhalation of dust.

Keep out of the reach of children.



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**The assessment is valid under the following conditions:**

1. Potential physical, mechanical electrical and microbiological risks of the product have not been assessed or evaluated.
2. The formulation, description and other supporting documents of the product were assumed to be valid and accurate.
3. It was assumed that, neither the ingredients, nor the finished product contain contaminants or residues, which could cause adverse effect to a consumer who may be exposed, above the level set in the applicable legislation.
4. The risk evaluation can solely be applied to and is 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, would 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. In case of consumer's adverse reaction from using this formulation, 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/eco-toxicity were not assessed in this report.
9. The assessment is performed by using in-house method, to consumer product exposure database, public information and literature data available at the time of this 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-CSTC 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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PHOTO APPENDIX



SGS authenticate the photo on original report only

\*\*\*\*\* End of Appendix \*\*\*\*\*



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