TEST REPORT

NINGBO MINGXI IMP. & EXP. CO., LTD

Technical Report: **(3223)096-0400** Apr.13,2023
Date Received: Apr.06,2023

AMANDA
NINGBO MINGXI IMP. & EXP. CO., LTD
ROOM 407, BLDG 7, NO.535, KANGQIAO SOUTH ROAD,
JIANGBEI DISTRICE, NINGBO, CHINA

SAMPLE INFORMATION:

Sample Description:	SLIME	**Sample Quantity:**	N/A
Vendor:	N/A	**Style No(s):**	N/A
Manufacturer:	N/A	**SKN/SKU No.:**	N/A
Buyer:	N/A	**PO No.:**	N/A
Labeled Age Grade:	N/A	**Ref #:**	N/A
Appropriate Age Grade:	N/A	**Country of Origin:**	CHINA
Client Specified Age Grade:	N/A	**Assortment No.:**	N/A
Tested Age Grade:	N/A	**Country of Destination:**	N/A
UPC Code:	N/A	**Color :**	N/A

EXECUTIVE SUMMARY:

TEST REQUESTED	CONCLUSION
Labeling of Hazardous Art Materials Act(LHAMA) Certification	REFER TO BELOW PAGES

Note:With the client's prior consent, the LHAMA was the subcontracted test items.

BVCPS (ZHEJIANG) GENERAL CONTACT INFORMATION FOR THIS REPORT

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Test Results:
The formulation of SLIME in 10 assorted colors (red, titanium dioxide, yellow, blue, green, orange, purple, black, pink, brown) were reviewed according to the US Consumer Product Safety Commission's Regulation- 16 CFR § 1500.14(b)(8)(i)(C)(7) and the criteria outlined in ASTM D-4236. In addition, 16 CFR 1500.3(c)(2)(ii) and 1500.135 were also referenced to evaluate the said formulation for chronic hazards and the health risk assessment approaches.

In this review, the available data including the relevant data from the National Toxicology Program (NTP), International Agencies for Research on Cancer (IARC) and other sources in the National Library of Medicine Data Bank were considered to assess the need for chronic health hazard warning. In the case of absence of relevant information from public toxicity data resources, data-gap filling methods such as read-across or exposure-based waiving approaches will be employed to evaluate the potential health risk for chronic health hazards of concerned ingredients in given products under normal conditions of use.

The review is based only on the submitted formula (*APPENDIX-1*) including the CAS No. of each component and their concentration (% by weight). All the ingredients in this product are assumed to contain no contaminants or residues at level that would cause chronic toxicity among users when used as intended or under circumstances involving reasonably foreseeable misuse. If there is any alteration to this formula in this product, it will void this certification.

The formulation is intended to be applied for molding different shapes by the population of 3 years old and above. The formulation contained 0.78% concentration of Borax ($B_4O_7Na_2 \cdot {}_{10}H_2O$ or $B_4H_{20}Na_2O_{17}$, m/z: 381.4), which will react with other components to form a network of crosslinks that increase the viscosity. Ingestion of boron at dose levels of greater than 13 mg/kg body weight/day in short and long term studies in a number of animal species (e.g. mouse, rat, dog, pig) has been shown to result in a range of adverse effects, with developmental and reproductive effects being the most critical. The Reference Dose for Oral Exposure (RfD) of boron set by U.S. EPA was 0.2 mg/kg bw/d. Taking a reasonable worst-case exposure scenario, supposing the boron will be totally free to migrate and the daily dermal product contact amount of 20 g with dermal absorption rate of 0.5% for boron (from SCCS opinion on boron compounds) and potential daily oral uptake of 0.4 g for product with 100% oral bioavailability, the systemic exposure amount of boron was calculated to be 0.029 mg/kg bw/d, which was far below the RfD. Based on the available data, the submitted formulation would not be expected to produce chronic toxicity health effects on consumers when used as intended or under circumstances involving reasonably foreseeable misuse. Risk of chronic toxicity effects was evaluated in accordance with the guidelines specified by the Consumer Product Safety Commission in 16 CFR 1500.135. Hence, the product will not require any additional chronic health hazard labeling according to ASTM D4236.

Labeling Practice:

CONFORMS TO ASTM D-4236

The validity of this review depends on the validity of disclosure by both the manufacturer of the components and that of the finished products. In addition, best professional capabilities are used in performing this review and if the client wishes to use this opinion with any alterations to the submitted formula, NINGBO BV. or any of its employees will not be held reliable for any injury or damage resulting from this product. This review will need to be updated **every five years** or upon reformulation or upon change of new significant safety information. In addition, the submitted sample should also be in compliance with US CPSC additional guidelines in all respects.

APPENDIX-1

DETAILS OF THE PRODUCT FORMULATION

Formulation/Ingredients

Ingredient Name	CAS RN	% By Weight
Basic formula		
PVA	9002-89-5	20
Glycerin	56-81-5	10
Borax	12045-87-3	0.78
Aseptic	99-76-3	0.28
Water	7732-18-5	68.44
Color agents		
Pigment red	6410-26-0	0.5
Titanium dioxide	13463-67-7	0.5
Pigment yellow	5468-75-7	0.5
Pigment blue	147-14-8	0.5
Pigment green	1328-53-6	0.5
Pigment orange	3520-72-7	0.5
Pigment purple	6358-30-1	0.5
Carbon black	1333-86-4	0.5
Pigment pink	132685-02-0	0.5
Pigment brown	35869-64-8	0.5

Raul Xin
Ph.D., ERT, DABT

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