



TEST REPORT

LAB LOCATION: SHANG HAI
REPORT NUMBER: 64414-00347

ISSUE DATE: Feb 24, 2014
PAGE: 1 of 2

Applicant : S-Land Co., Ltd
Contact Person : Lele
Sample Description : Whiteboard Marker Ink
1) Pink
2) Green
3) Red
4) Black
5) Yellow Green
6) Blue
7) Sky Blue
8) Violet
Age Grade: 3+
Date of Submission : Feb 19, 2014
Test Performance Dates : Feb 19, 2014 – Feb 24, 2014

Photo of Submitted Sample



TEST RESULT SUMMARY	
Test Requested	Results
Toxicological Risk Assessment	PASS

For and on behalf of
Modern Testing Services Co., Ltd.

Zhang, Xiu Jie Eddie
Deputy Regional Director,
Analytical Division

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PAGE: 2 of 2

TEST RESULT

Toxicological Risk Assessment

Please refer to the report issued by certified toxicologist from Jongsei Park, Ph.D. which dated on Feb 21, 2014 with report number 64414-00347.

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

NOTE:

If there is question or concern regarding the above results, please contact us via email iyang@mts-global.com

The testing lab overall rating is provided to client as an aid in reviewing report data. The rating is based on lab results. Final product acceptance or rejection is per client only. Testing of vendor's merchandise by client is not a substitute for vendor's own testing and other quality assurance related obligations in connection with its sale of merchandise to client. Client testing shall not limit client's rights, or diminish or remove any of vendor's responsibilities.



64414-00347
TRA(Canada)

Canada Toxicological Risk Assessment Report .

TEST:

Evaluation of **"S-land Co., Ltd., Whiteboard Marker Ink (Pink, Green, Red, Black, Yellow Green, Blue, Sky Blue, Violet)"** for requirements of applicable sections of Hazardous Product Act(HPA) RSC 1985, Canada Consumer Product Safety Act(S.C.2010, c.21), Consumer Chemical Containers Regulation, CCCR(2001), Toys Regulation SOR/2011-17 and the Canadian Environmental Protection Act. 1999(CEPA 1999) and requirements for Toxicology Risk Assessment. 64414-00347

Background:

Quantitative list of the ingredients in **"S-land Co., Ltd., Whiteboard Marker Ink (Pink, Green, Red, Black, Yellow Green, Blue, Sky Blue, Violet)"** was submitted to the reviewer.

Specific physical and chemical form of the product, bioavailability, concentration, and the amount of each potentially chronic toxic component found in the formulation is determined from examination of the formulation, labeling, packaging and instructions for use supplied by the manufacturer and from examination of the product. The review of the formulation of the submitted **"S-land Co., Ltd., Whiteboard Marker Ink (Pink, Green, Red, Black, Yellow Green, Blue, Sky Blue, Violet)"** sample was conducted by a board certified toxicologist, Jongsei Park, Ph.D. (Fellow, Academy of Toxicological Sciences, Diplomate, American Board of Forensic Toxicology, CLD, American Board of Bio-Analysis) according to the criteria defined in Hazardous Product Act(HPA) RSC 1985, Canada Consumer Product Safety Act(S.C.2010, c.21), Consumer Chemical Containers Regulation, CCCR(2001), Toys Regulation SOR/2011-17 and the Canadian Environmental Protection Act. 1999(CEPA 1999).



64414-00347

TRA(Canada)

This review considered all the available data including the relevant data from the U.S. National Toxicology Program and the World Health Organization's International Agency for Research on Cancer and other sources of information in the U.S. National Library of Medicine's toxicology databases. All this information was used to assess the need for chronic health hazard warning including carcinogenesis, reproductive/ teratogenic hazards, neurotoxicity and other potential chronic adverse health effects. Relevant information on bioavailability and exposure were also considered. In the absence of specific information, reasonable judgments were made to realistically assess the potential hazards of this material.

Exposure Assessment:

In evaluating acute and chronic toxic effects of each component and of the total formulation of "**S-land Co., Ltd., Whiteboard Marker Ink (Pink, Green, Red, Black, Yellow Green, Blue, Sky Blue, Violet)**" according to the information supplied, physical and chemical form, customary or reasonably foreseeable handling and use, including possible accident or misuse, and any adverse health effects of decomposition or combustion products were taken into account. Assessment of exposure was done using the applicable sections of Hazardous Product Act(HPA) RSC 1985, Canada Consumer Product Safety Act(S.C.2010, c.21), Consumer Chemical Containers Regulation, CCCR(2001), Toys Regulation SOR/2011-17 and the Canadian Environmental Protection Act. 1999(CEPA 1999). The following exposure route(s) were considered: Inhalation, Oral ingestion and Dermal exposure.



64414-00347
TRA(Canada)

Toxicity Assessment:

Generally accepted, well established scientific, epidemiologic and toxicological knowledge of the bioavailability, pharmacokinetics, toxic effects (acute and chronic) of each component and of the total formulation obtained as necessary thru on-line access to the National Library of Medicine Toxicology data networks, including the Hazardous Substances Data Bank, the National Institute for Occupational Safety and Health Registry of Toxic Effects of Chemical Substances, the National Cancer Institute sponsored Chemical Carcinogenesis Research Information System, the U.S. Environmental Agency sponsored Integrated Risk Information System and Genetic Toxicity file, the Oak Ridge National Laboratory Environmental Mutagen Information database and the U.S. EPA and NIEHS sponsored Developmental and Reproductive Toxicology/Environmental Teratology Information file were taken into account.

Opinions of various regulatory agencies and scientific bodies on the potential for chronic adverse health effects of the various components of the formulation obtained from the publications of these agencies and the data sources listed above were used for evaluation. To assess product's toxicity, well established safety factors of 10 – 100X for acute effects, 100 – 1000X for chronic health effects, 10^{-6} risk at the 95 % upper bound of a multistage model for reproductive toxicants, or limits were used in determining whether or not a product would require acute or chronic health hazard labeling.



64414-00347
TRA(Canada)

Summary:

After reviews of the supplied information and risk assessment based on hazards, exposure potential, acceptable daily intake and appropriate safety factors, it is this reviewer's professional opinion that this product, **"S-land Co., Ltd., Whiteboard Marker Ink (Pink, Green, Red, Black, Yellow Green, Blue, Sky Blue, Violet)"** are not considered a Hazardous Substance as defined in 16 CFR 1500.3(b)(4)(A), not highly toxic, corrosive, an eye or skin irritant, a strong sensitizer, excessively corrosive or irritant or an excessively strong sensitizer as determined in accordance with the test prescribed by Schedule II, will not pose acute or chronic health effects in humans, will not constitute and may not constitute a danger in Canada to human life or health when used as intended. It is not a quick skin bonding adhesive.



64414-00347
TRA(Canada)

Conclusion:

This product, "S-land Co., Ltd., Whiteboard Marker Ink (Pink, Green, Red, Black, Yellow Green, Blue, Sky Blue, Violet)" complies with the applicable sections of Hazardous Product Act(HPA) RSC 1985, Canada Consumer Product Safety Act(S.C.2010, c.21), Consumer Chemical Containers Regulation, CCCR(2001), Toys Regulation SOR/2011-17 and the Canadian Environmental Protection Act. 1999(CEPA 1999).

Containers of materials larger than one ounce must have full precautionary labeling as determined by manufacturer. Where containers of materials which require warning labels are packed in the point of sale package which obscures the warning statement, the point of sale package must have the signal word and the following wording: "Read cautions on individual containers carefully".

Date : Feb. 21. 2014

Jongsei Park, Ph.D.

Fellow, Academy of Toxicological Sciences.

Diplomate, American Board of Forensic Toxicology

CLD, American Board of Bioanalysis.