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6/17/2024: File reviewed, more current MSDS/SDS not available. CAS

Intertek

TEST REPORT

NUMBER: TH-117016

DATE: NOV 22, 2007

SAMPLE DESCRIPTION:

FIVE (5) PIECES OF SUBMITTED SAMPLES SAID TO BE PLASTER CRAFT

ITEM NAME:	PLASTER CRAFT
ITEM NO. :	#52710/52720/52730
BUYER NAME :	PACON CORPORATION
COUNTRY OF ORIGIN :	CHINA
DATE SAMPLE RECEIVED :	NOVEMBER 16, 2007

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TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT,

1 TOXIC ELEMENTS ANALYSIS

AS PER SECTION 4.3.5 OF THE ASTM STANDARD CONSUMER SAFETY SPECIFICATION ON TOY SAFETY F963-07 FOR TOTAL TOXIC ELEMENTS, ACID DIGESTION METHOD WAS USED AND ALL TOXIC ELEMENTS CONTENT WERE DETERMINED BY INDUCTIVELY COUPLE PLASMA OPTICAL EMISSION SPECTROMETRY.

	RESULT IN ppm	LIMIT ppm
TOTAL LEAD (Pb)	<10	600
SOL. BARIUM (Ba)	<5	1000
SOL. LEAD (Pb)	<5	90
SOL. CADMIUM (Cd)	<5	75
SOL. ANTIMONY (Sb)	<5	60
SOL. SELENIUM (Se)	<5	500
SOL. CHROMIUM (Cr)	<5	60
SOL. MERCURY (Hg)	<5	60
SOL. ARSENIC (As)	8	25

REMARK : SOL. = SOLUBLE
< = LESS THAN
ppm = PARTS PER MILLION BASED ON WEIGHT OF PAINT COATING; WHITE COATING ON FABRIC NET (PLASTER CRAFT)

DATE TEST STARTED : NOVEMBER 16, 2007

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CONCLUSION:

TESTED SAMPLES	STANDARD - U.S. ASTM F963-07	RESULT
SUBMITTED SAMPLES	TOXIC ELEMENTS TEST	PASS

********** E N D **********/DR/PPA/SA

AUTHORIZED BY :
FOR INTERTEK TESTING SERVICES (THAILAND)

Intertek Testing Services (Thailand) Limited
5/1 Phaholyothin 28, Phaholyothin Road, Bangkok 10900 Thailand

9) **Plaster Craft**
Gauze:
1/Composition: 100% cotton
2/Treatment; for bleaching, there is only one ingredient; the chemical name is called Sodium Hydroxide,
the method is put Sodium Hydroxide in boil water then put gauze in and then take out and sun-dried.
Step 1 : The time for putting gauze in hot sodium hydroxide water approximate 5 hours.
Step 2 : Put into the clear water
Step 3 : Sun-dried, the time is approximate 5 minutes
1/Sodium Hydroxide
CAS code:1310-73-2
Plaster
1/99.3% of calcium sulphate
2/0.7% of food additive (Malt Dextrin),there is only one ingredient.

1/Calcium Sulphate
CAS code:7778-18-9
2/Malt Dextrin
CAS code:9050-36-6

PLAST-R-CRAFT
CHINA

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Diplomate, American Board of Toxicology

4804 Old Middletown Road
Jefferson, Maryland 21755

ART MATERIAL CERTIFICATION, ASTM D-4236

Certified October 16, 2007
CERTIFICATION EXPIRES October 16, 2012

STR Project Number: 7826.28953; Trace Code: C07-2195

Client: Pacon Corporation,
2525 North Casaloma
Appleton, WI
54913, USA

Product Item: Plast'r Craft in Units of up to 20 pounds.

Notice: This certification report consists of three (3) pages and is valid only as written and embossed. This certification report, or copies of it, if altered in any manner including omissions or deletions is not valid and will not be authenticated by me.

Regulatory Background:

The American Society for Testing and Materials (ASTM) practice D-4236-88, revised January 1, 2006, and incorporated into CFR Part 1500.14 (b)(8)(i)(B)(11) defines a toxicologist as "an individual who through education, training, and experience has expertise in the field of toxicology, as it relates to human exposure, and is either a toxicologist or physician certified by a nationally recognized certification board." These regulations require that, "The producer or repackager shall submit art material product formulation(s) or reformulation(s) to a toxicologist for review, such review be in accordance with paragraph (b)(8)(1)(D)" of 16 CFR 1500.14.

In evaluating the chronic hazard of the art material, the toxicologist is to take into account: 1) the chemical composition of the art material, 2) the scientific knowledge of each component and the total formulation, 3) the physical and chemical form of the product, bioavailability, concentration, and the amount of each potentially chronic toxic component in the formulation, 4) reasonable foreseeable uses of the art material product as determined by consultation with teachers, and other individuals who are experienced in use of the material(s), 5) potential for known synergism and antagonism of the various components in the formulation, 6) potentially chronic adverse health effects of decomposition or combustion products, if known, from any reasonably foreseeable use of the hazardous art material product, and 7) opinions of various regulatory agencies and scientific bodies concerning the components and the product. Based upon the conclusions reached as conformance with review determinations the toxicologist(s) shall recommend precautionary labeling that is consistent with that set forth by the standard.

Review:

For this certification, I reviewed documents from / _ , Pacon Corporation concerning the ingredients and formulations of a product called Plast'r Craft (kits). This craft kit includes plaster and cotton gauze. I was told that the product would be sold in units of up to 20 pounds each. I searched the toxicological literature and data banks for information pertaining to the potential chronic hazards of the ingredients as presented to me. These included federal and state sources of information, such as Toxline, listings of ingredients approved for use by the United States Food and Drug Administration (EAFUS), Medline, publicly available MSDS Sheets, and other reference sources including Sax's Dangerous Properties of Industrial Materials.

Evaluation:

In evaluating the chronic hazards of art materials, I used the procedures and criteria contained in 16 CFR 1500.135 as published in the Federal Register dated Friday, October 9, 1992, revised January 1, 2006, and entitled "Part II. Consumer Product Safety Commission. 16 CFR Part 1500 Labeling requirements for Art Materials Presenting Chronic Hazards; Guidelines for *Determining Chronic toxicity of Products Subject to the FHSA; Supplementary Definition of* "Toxic" Under the Federal Hazardous substances Act; Final Rules."

Findings:

The product is primarily gauze impregnated with calcium sulfate (anhydrous). It produces an exothermic reaction when mixed with water. Inhaling calcium sulfate powder may irritate the respiratory tract and cause coughing and shortness of breath. Ingestion of the powder may cause obstruction in stomach, as it hardens upon contact with moisture. Symptoms include stomach pain, distress. Skin Contact may cause irritation, redness and pain. Eye contact will cause irritation, redness, and pain. Because the powder is largely in combination with gauze, it is not likely to be eaten. Still, the instructions for use should include appropriate protective equipment such as gloves. First Aid Measures that can be taken include: for inhalation, removing oneself from the powder and into an area of fresh air. For ingestion, getting medical attention and induce vomiting immediately as directed by medical personnel. For skin contact, if redness develops flush skin with plenty of water and discontinue use. For eye contact, immediately flush eyes with plenty of water for at least 15 minutes, while lifting lower and upper eyelids occasionally, and getting medical attention.

Recommendations:

The packaging or instructions for use should contain appropriate "Warning" statements and first aid measures. The statement should state that the product contains calcium sulfate (anhydrous). The Warning should include: Keep out of reach of small children. Adult supervision recommended. Ingredients may cause respiratory, eye and skin irritation, and may cause intestinal pain and blockage if eaten. I suggest, "Not intended to be eaten. If skin redness develops discontinue use and wash effected area with soap and water. If powder gets into eyes wash them with plenty of water. If eaten, get medical attention.

Certification:

As a qualified toxicologist, defined above, I certify that Plast'r Craft product complies with ASTM standard D-4236, revised January 1, 2006, as incorporated into regulation and contained in 16 CFR 1500.14, for the Labeling of Art Materials for Chronic Health Hazards. The product may be labeled as follows:

> CONFORMS TO ASTM PRACTICE D-4236

This certification, with recommendations, is valid 5 years from the date of this report provided that the product ingredients, formulations, and uses do not change during that period.

Limitations:

It is a legal responsibility of the producer or repackager of art materials to provide complete and accurate information about the ingredients and formulations of their art materials to the certifying toxicologist. For this certification, I relied on the information provided by Pacon Corporation as constituting a complete and accurate description of the ingredients and formulations of the clay products being certified. If the information that was provided does not constitute such a description, this certification is invalid.

Changes in the intended uses of the product or changes in the ingredients or formulations are not covered by this certification. Changes in the products or the intended uses thereof will necessitate reevaluation and recertification of the products.

James R. Beall, Ph.D., DABT

Certifying Toxicologist

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