香 港 標 準 及 檢 定 中 心

The Hong Kong Standards and Testing Centre Ltd.

Date : 2004-10-09
No. : HC154359

TEST REPORT

Applicant (Code:BOT003) :

Supplier / Manufacturer :

Description of Samples : One submitted sample said to be CT – Catalyst Spray Bomb.

Date Samples Received : 2004-07-31

Date Tested : 2004-09-03 to 2004-10-04

Investigation Requested :
1. Formaldehyde Reduction
2. Acute Oral Toxicity
3. Skin irritation test

Conclusion :
1. This test article is able to reduce 8% formaldehyde after spraying 3 seconds on a distance of 5cm to the wood which was contaminated with formaldehyde.
2. According to Federal Hazardous Substances Act Regulations, (16 CFR 1500.3), and under the conditions of this test, this test article is not orally toxic to investigation animals.
3. According to Federal Hazardous Substances Act Regulations, (16 CFR 1500.41), and under the conditions of this test, this test article is not a primary dermal irritant.

Anne Chuah, CFD
For Chief Executive

THE HONG KONG STANDARDS AND TESTING CENTRE LTD.

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Method(s) Used:

1. In-house Method:
Pieces of wood (20 x 20 x 40mm) were cut out. They were immersed in approximately 100 ppm formaldehyde solution for 2 hours. They were then dried with tissue. Then the wood was sprayed with the sample evenly (distance = 5 cm, time = 3 seconds). The wood was suspended in a 250ml airtight container which containing 50ml deionized water. The sample was hold 25mm above water surface. The container with wood was put into 40°C oven for 3 hours. The formaldehyde content of the aqueous solution was determined photometrically. A control test (wood without spraying with the test article) was performed.

2. Ten (5M: 5F) albino rats, 201-224g, each received a single oral dose of the test article at a dose level of fives (5) grams per kilogram body weight. Animals were observed for pharmacological activity and drug toxicity 1, 3, 6 and 24 hours after treatment, and daily thereafter for a total of 14 days. All animals survived the observation period and were then euthanized and subjected to a gross necropsy with all findings noted. The test article was dispensed from its aerosol container, and the propellant was allowed to disperse, prior to dosing (Sp.g.=0.96).

3. Six (6) New Zealand white rabbits each received a single dermal application of one-half of one milliliter (0.5ml) of the test article on two (2) test sites, one (1) abraded and one (1) non-abraded. The test sites were occluded for 24 hours and were observed individually for erythema, edema, and other effects 24 and 72 hours after application. Mean scores from the 24 and 72 hours readings were averaged to determine the primary irritation index. The test article was dispensed from its aerosol container, and the propellant was allowed to disperse, prior to dosing.

Test Result(s):

1. Formaldehyde Reduction Test

Test Item(s)	Measured formaldehyde
Wood without spraying with CT-catalyst Spray Bomb	18.1 ppm
Wood with spraying with CT-catalyst Spray Bomb	16.6 ppm
Reduction rate	8%

Note : ppm denotes part(s) per million

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2. Acute Oral Toxicity

LD_{50} > 5 g/kg

Dose Level (g/kg)	Sex	No. Dead/ No. Dosed	Mortality (%)
5.0	5M:5F	0/5 : 0/5	0

3. Primary Irritation Index : 0.30 (refer to the following table for specific evaluation)

Scale of Interpreting Primary Dermal Irritation Scores (Rabbit)	
SCORE	**INTERPRETATION**
C	Corrosive - highly dangerous, warning label must be used.
5.0 and above	Primary Dermal Irritant - highly dangerous, warning label must be used.
3.0 - 4.9	Potential for severe irritation - warning label may be considered.
2.0 - 2.9	Potential for Moderate irritation - may be irritating to humans under conditions similar to test.
1.0 - 1.9	Potential for mild irritation - possibly irritating to some people under occlusive wrap conditions.
0.1 - 0.9	Potential for slight irritation - rarely irritating to people - no warning required.
0.0	No irritation potential - no warning required

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