



U.S. Department
of Transportation

Pipeline and Hazardous Materials
Safety Administration

1200 New Jersey Avenue SE
Washington DC 20590

MAR 13 2015

Mr. Chris Kubicek
S.C. Johnson & Son, Inc.
1525 Howe Street – MS 042
Racine, WI 53403

Ref. No. 14-0194

Dear Mr. Kubicek:

This responds to your October 14, 2014 email requesting clarification on the design qualification requirements for DOT-2S containers under the Hazardous Materials Regulations (HMR; 49 CFR Parts 171-180). You state that some manufacturers of 2S containers interpret that the drop test must be performed on a filled container with only the valve cup installed - reflecting the product configuration of the container during the manufacturing process immediately after filling. Additionally, you attached photographs of examples of the containers with the valve only configurations and with the actuator overcap configuration. Specifically, you ask that when the container (i.e., the aerosol) is drop tested in accordance with § 178.33b-7, should the test be conducted with the actuator overcap removed or should the container be tested in its assembled configuration for consumer use?

The container should not be tested in its assembled configuration. The drop test must be performed with the valve only, i.e., without any covers/overcaps attached.

I hope this answers your inquiry. If you need additional assistance, please contact this Office at 202-366-8553.

Sincerely,

Dirk Der Kinderen
Acting Chief, Standards Development Branch
Standards and Rulemaking Division

Boothe
178.33b-7
Design Qualification
14-0194
Test

Dodd, Alice (PHMSA)

From: Betts, Charles (PHMSA)
Sent: Tuesday, October 14, 2014 11:06 AM
To: Dodd, Alice (PHMSA)
Cc: Goodall, Shante CTR (PHMSA)
Subject: Fw: Interpretation of 178.33b-7
Attachments: consumer 1.jpg; consumer 2.jpg; consumer 3.jpg; valve only 1.jpg; valve only 2.jpg; valve only 3.jpg

Alice-

Please log and assigned to a specialist.

Thanks,
Charles

From: Kubicek, Chris A. [mailto:CAKubice@scj.com]
Sent: Tuesday, October 14, 2014 09:30 AM Eastern Standard Time
To: Betts, Charles (PHMSA)
Cc: Freeman, Cheryl (PHMSA); shane.kelly@dot.gov <shane.kelly@dot.gov>; Doug Fratz (dfratz@cspa.org) <dfratz@cspa.org>; Steve Engler (sengler@aerofil.com) <sengler@aerofil.com>
Subject: FW: Interpretation of 178.33b-7

Charles, thank you for your clarification to Mr. Fratz on the 49CFR178.33b-7 (DOT-2S) drop test protocol. We understand the aerosol product should be tested without it's shipping container.

We do need more clarification on the aerosol itself. Some of our CSPA members interpret the drop testing to be performed on a filled container with only the valve cup installed (the product configuration of the aerosol during the manufacturing process immediately after filling).

When the individual aerosol is drop tested, should that aerosol container with the actuator overcap removed? Or should the aerosol container be tested in the assembled configuration as the consumer would be using?

I am attaching three examples of 'valve only' configurations, and 3 examples of the assembled aerosols for consumer use.

Thank you for your help on this, we look forward to your response.

Chris

COLLABORATIVE
SCIENCES

CHRIS KUBICEK | Principal | ph 262.260.5419 txt 262.374.2089 | cakubice@scj.com
S. C. Johnson & Son, Inc. | 1525 Howe Street – MS 042 • Racine, WI 53403

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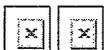
From: Doug Fratz [mailto:dfratz@cspa.org]
Sent: Friday, October 03, 2014 12:22 PM
To: Kubicek, Chris A.
Subject: Fwd: Interpretation of 178.33b-7

See response below.

D. Douglas Fratz
Senior Science Fellow and
Aerosol Division Staff Executive



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Washington, DC 20006
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Begin forwarded message:

From: <charles.betts@dot.gov>
Date: October 3, 2014 at 8:37:02 AM EDT
To: <dfratz@cspa.org>
Cc: <cheryl.freeman@dot.gov>, <shane.kelley@dot.gov>
Subject: RE: Interpretation of 178.33b-7

Good morning Mr. Fratz –

After speaking with several staff members, it is our understanding that the drop test must be performed on the filled DOT 2S container **without** the outer shipping container.

We hope that this helps.

Regards,

Charles

From: Doug Fratz [mailto:dfratz@cspa.org]
Sent: Wednesday, October 01, 2014 9:15 AM
To: Kelley, Shane (PHMSA); Betts, Charles (PHMSA)
Subject: Interpretation of 178.33b-7

Shane, Charles:

We have a question regarding the requirement in 49CFR178.33b-7 that, "The closure, or sealing component of the container, must not be protected during the test." (This relates to the design qualification drop test for 2S plastic aerosol containers.) Does this simply mean that the test is conducted on the filled aerosol product without the outer shipping container (usually a cardboard box)?

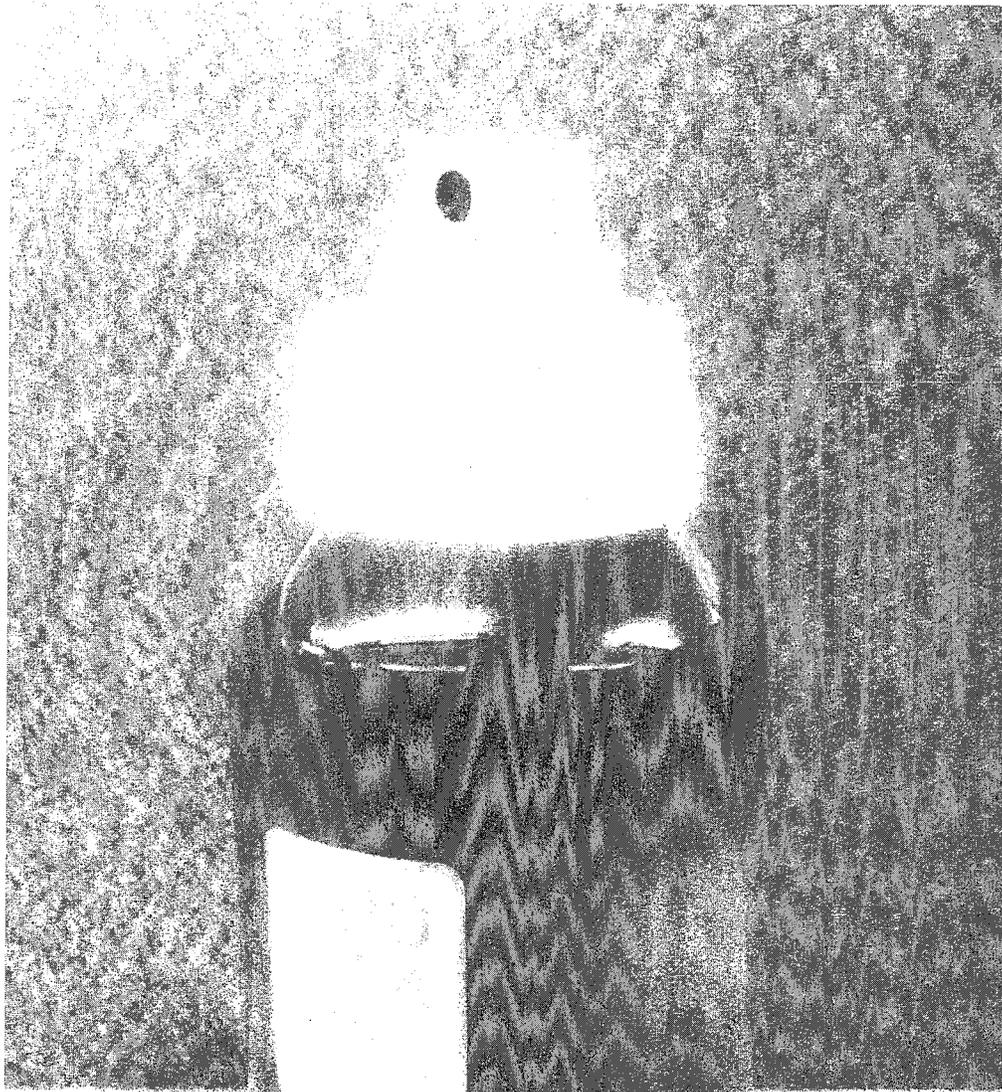
Thanks in advance.

D. Douglas Fratz
Senior Science Fellow and
Aerosol Products Division Staff Executive



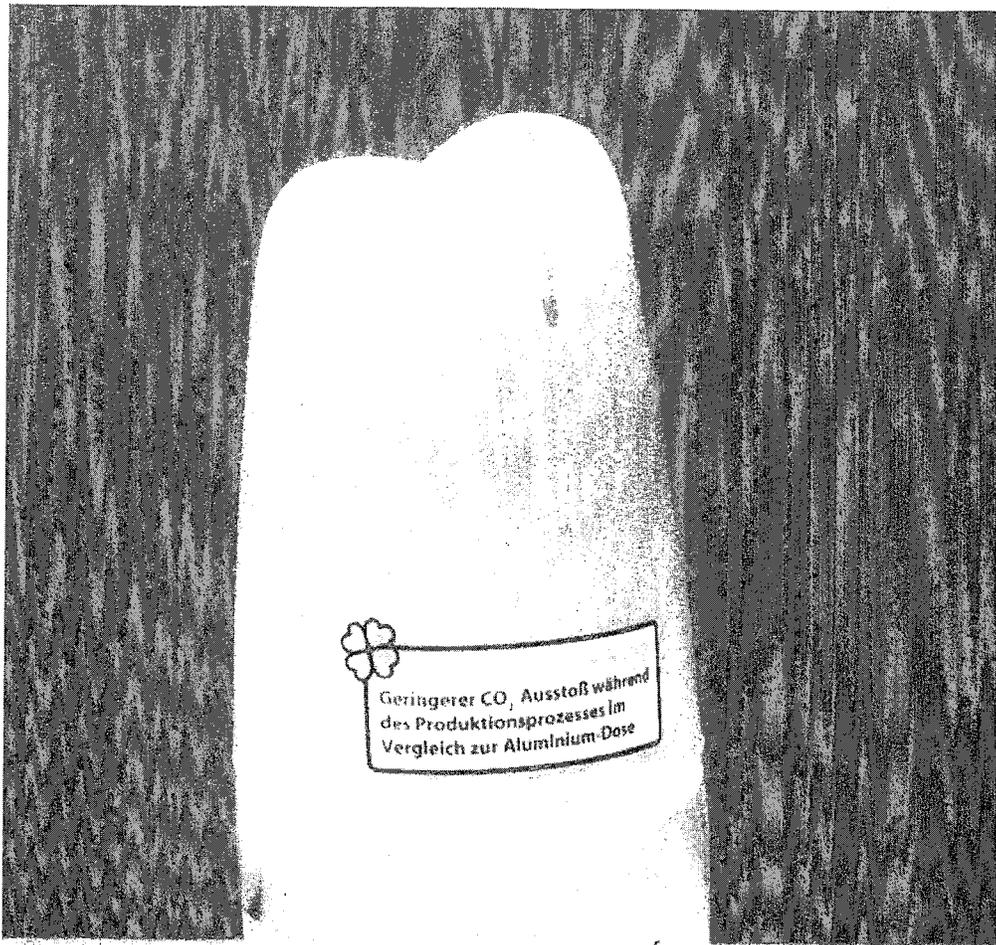
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New

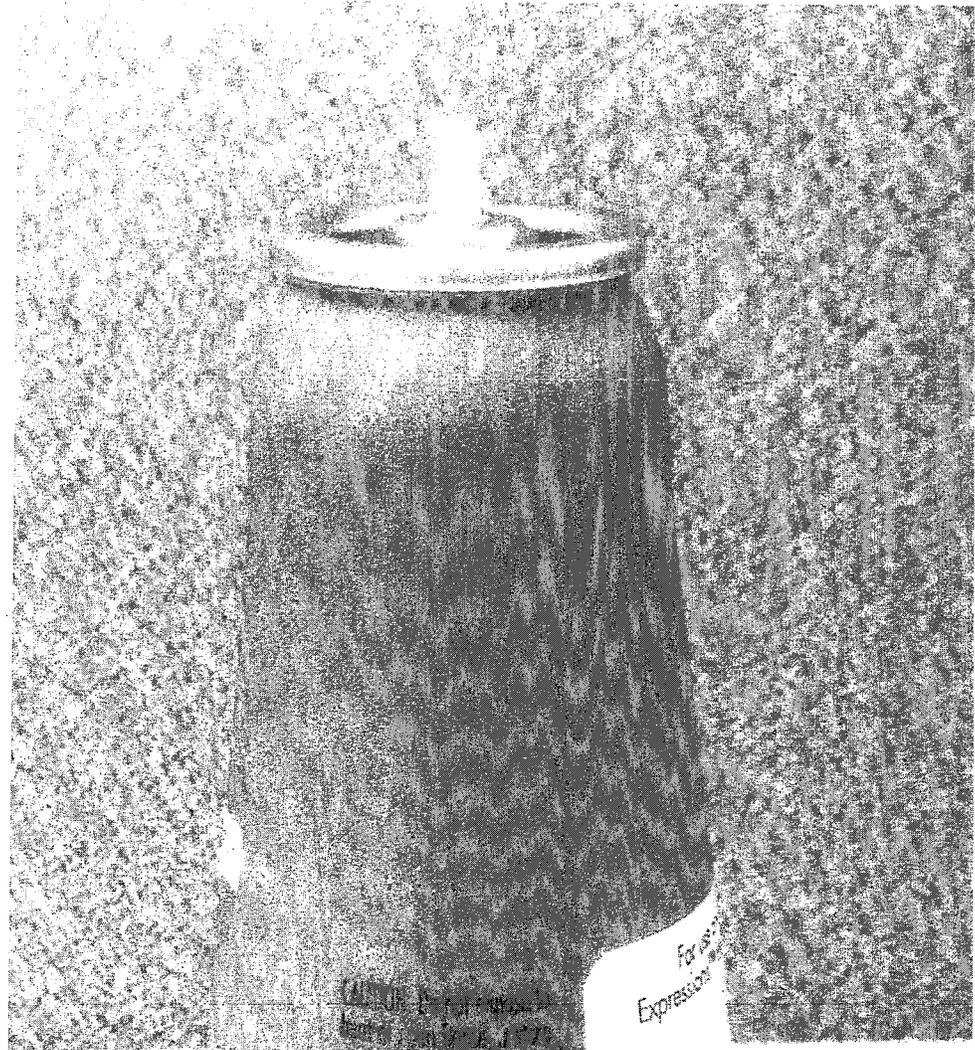
glade
expression

starter kit

tutti frutti
cardamom
spice

CAUTION:
CONTENTS UNDER PRESSURE
SHAKE WELL. SPRAY CAREFULLY.

NET WT. 7 OZ. (199 g)



CAUTION: For use only on
 leather, vinyl, plastic, etc.
 Do not use on fabric or
 other surfaces.
**KEEP OUT OF REACH OF
 CHILDREN AND PETS**
 Spray into air. Do not
 spray directly on surfaces.
 Surfaces may become
 damp if sprayed.
 Avoid slips or falls.
 Help stop inhalant abuse.
 For information, visit
www.inhalant.org

For use on
 Expressions



Instructions

1. Use the spray from the nozzle.



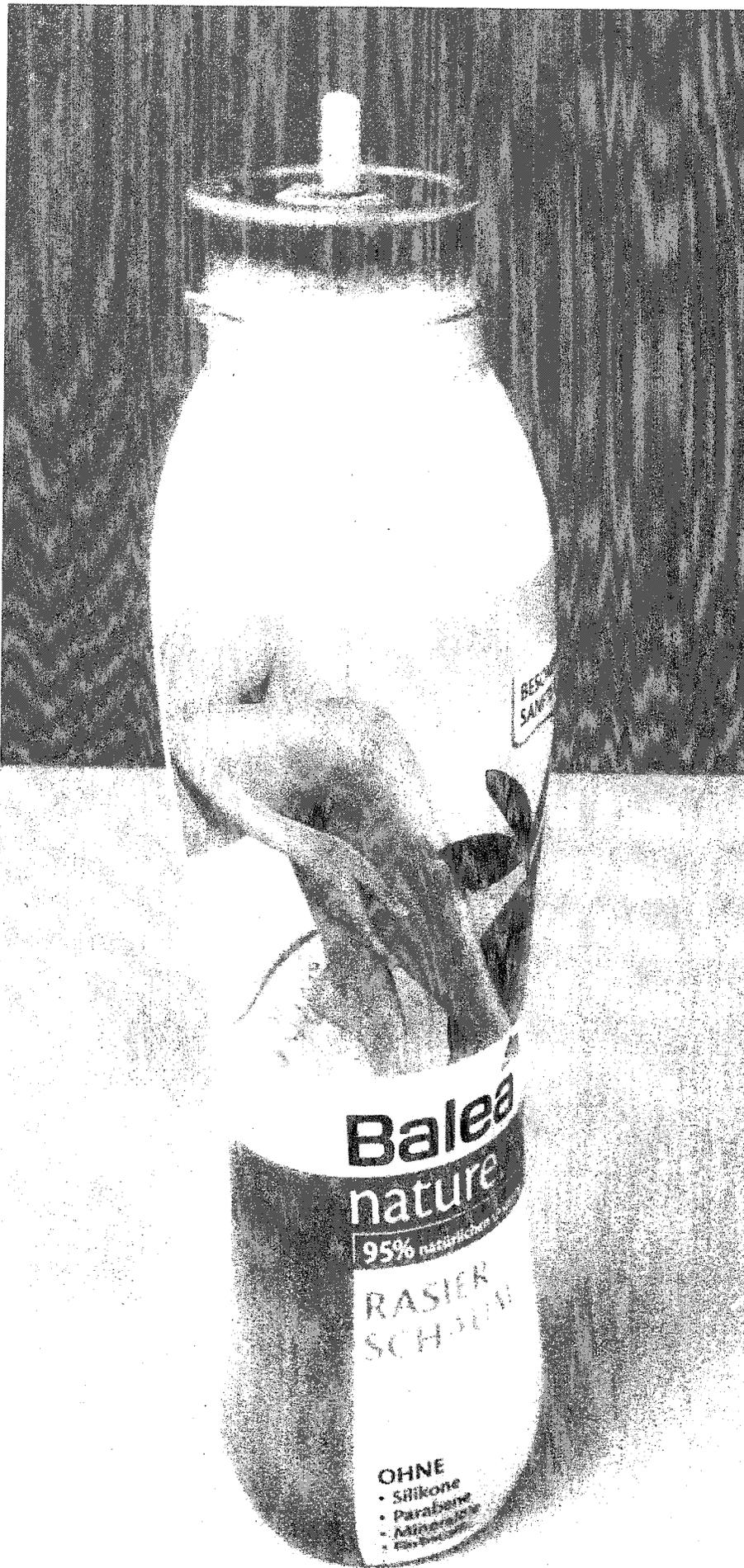
Federal
 regulations
 prohibit CFC
 propellants
 in aerosols

QUESTIONS?
 COMMENTS?

Call 800 558-5252
 or write Helen Johnston
 607011

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