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MR#351171

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**Product Safety & Regulatory Affairs
Health, Environment & Safety**



January 14, 2013

TSCA Confidential Business Information Center (7407M)
EPA East-Room 642B-Attn: Section 8(e)
U.S. Environmental Protection Agency
1201 Constitution Avenue NW
Washington, DC 20004-3302

RE: CAS Number 112-55-0 (n-dodecyl mercaptan)

This submission is made by:
Arkema Inc.
900 First Avenue
King of Prussia, PA 19406-1308



Dear TSCA Section 8(e) Coordinator:

Arkema is reporting the research results pursuant to Section 8(e) of the Toxic Substances Control Act.

A recently received report provides data from a skin sensitization study using n-dodecyl mercaptan (CAS No. 112-55-0). This report does not involve effects in humans. Nothing in this letter is considered confidential business information.

The following information is from the report "Evaluation of skin sensitization potential in mice using the local lymph node assay (LLNA)." The effect of the test item n-dodecyl mercaptan on skin sensitization potential in mice was investigated in the local lymph node assay (LLNA) following the OECD Guidelines for Testing of Chemicals, No. 429: Skin Sensitization: Local Lymph Node Assay. The nominal concentrations tested were 0.2, 0.4, 0.8, 1.6 and 3.2%. A control was also tested. A dose-related increase in the stimulation index (SI) was recorded at concentrations $\geq 0.8\%$ and the threshold positive value of 3 was exceeded at the concentration of 1.6%. The EC3 value was equal to 0.85%. In the absence of local irritation, the significant lymphoproliferative responses observed were attributed to delayed contact hypersensitivity.

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Results from this study will be included in the Arkema Inc. Material Safety Data Sheet for the material.

Please contact me if you have any questions or require additional information. I can be reached by telephone at (610) 205-7181.

Sincerely,

A handwritten signature in black ink, appearing to read 'RJB', with a long horizontal line extending to the right.

Rebecca J Bernstein
Senior Director
Product Safety and Regulatory Affairs
Health Environment & Safety

RJB:mm

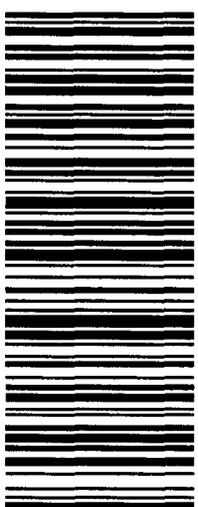
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<p>MICHELLE MULLER 610-205-7070 ARKEMA INC. 900 FIRST AVENUE KING OF PRUSSIA PA 194061308</p> <p>SHIP TO: TSCA CBIC (7407M) US ENVIRONMENTAL PROTECTION AGCY. EPA EAST-RM 642B-ATTN: SEC. 8(E) 1201 CONSTITUTION AVENUE NW WASHINGTON DC 20460-0006</p>	<p>0.0 LBS LTR</p> <p>1 OF 1</p>	<p>MD 201 9-83</p> 	<p>UPS NEXT DAY AIR</p> <p>1</p> <p>TRACKING #: 1Z OE0 394 01 9542 1443</p> 	<p>BILLING: P/P</p> <p>Arkema Inc: 863100</p>  <p>CS 15.0.26 WNTJER0 33.0A.10/2012</p>
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