3M Fluorochemical EHS & R Initiative

Chuck Kiester’s

BOARD OF DIRECTORS PRESENTATION

May 9, 2000
Issue Summary

- 3M discovery of 3M fluorochemical in blood of general population
- No medical or scientific basis to attribute any adverse health effects to 3M products
- Developing and implementing plans to minimize exposures and emissions
- Accelerating scientific studies - health, safety, environmental issues
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Internal Questions

- What Does This Finding Mean?
- Where Does PFOS Come From?
- What Should We Do?
- What is Context for Risk Management Decisions?
- Have We Caused Harm? (past)
- Are We Causing Harm? (current)
- Will We Cause Harm? (future)
- Is Exposure From Products?
- Is Exposure From Historical Releases?
- Is PFOS Everywhere in World?
- What Process Should We Use To Obtain Answers?
Estimated 3M Annual Production (Global)

Perfluorooctanyl - Based Products*

PFOS-Based Products
Scotchgard 3,844,796 lbs.
Scotchban 2,909,064 lbs.
Lightwater 96,240 lbs.
Surfactants & Intermediates 399,900 lbs.
TOTAL PFOS-Based 7,250,000 lbs.

PFOA-Based Products:
TOTAL PFOA-Based: 363,444 lbs.

Total Annual Perfluorooctanyl**-Based Products 7,613,444 lbs.

* Expressed as lbs. - solids
** Estimate Based on April 2000 YTD Actual Shipments
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Program Scope

• Assemble Current Knowledge
  - Composition of Products
  - Applications & Life Cycle Exposures
  - Life Cycle Releases
  - Historical Production & Releases
  - Toxicology & Occ. Medicine Studies
  - Environmental Fate & Effects Studies

• Fill in Knowledge Gaps
  - Undertake Additional Studies

• Characterize Overall Risks
  - Internal & External Characterizations and Assessments

• Risk Management Initiatives
  - Re-engineering - Emissions Reduction
  - Applications Review - Exposure Reductions
  - Reinvention

• Communicate to Stakeholders
  - Regulators
  - Employees
  - Customers
  - Trade Associations
  - Other Suppliers
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U.S. Regulatory Stakeholders

May-Sept. 1998 • Information Submissions to EPA, FDA

Dec. 1998 • Meeting with EPA


January 2000 • EPA Requests for information re selected Fluoro-Organics (PBT focus)

March 7, 2000 • Meeting with EPA
  - Update EPA on EHS&R Initiative
  - Seek Guidance on Science
  - Confidence in 3M Program
  - Clarify EPA Information Requests

March 20, April 7 • EPA Requests for Additional information
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U. S. Regulatory Stakeholders

April 28 • Meeting with EPA - Their Concerns:

- Widespread Distribution - Humans, Environment
- Accumulation Potential
- Safety Margins

• Submit Additional (Interim) Data
  - EPA wants to know what 3M knows

May 9 • Meeting with EPA

- Clarify Path Forward with EPA
- Discuss 3M Intentions