EPA Activities/Issues on Fluorosurfactants

Mary F. Dominiak U.S. Environmental Protection Agency DoD AFFF Workshop, Pentagon March 16, 2001

Issues and Status

- Discovery of perfluorooctyl sulfonates (PFOS) in humans and wildlife worldwide.
- Concern: Data indicate PFOS chemicals are persistent, bioaccumulative, and toxic
- 3M phasing out 90 PFOS chemicals by 2003; EPA proposed regulation to follow voluntary phaseout.
- telomers); assessment and research are underway. EPA has concerns on related chemistries (PFOA,
- PFOS, PFOA, and telomers are used in MilSpec AFFF products

Status of PFOS Rulemaking

- EPA published Proposed Significant New Use 62319, 10/18/2000), consonant with 3M phaseout. Rule (SNUR) on 90 PFOS chemicals (65 FR
- Proposed SNUR is not a ban: Would require companies to file notice with EPA 90
- days before beginning new manufacture or import of impose conditions on intended use listed PFOS chemicals. EPA could grant, deny, or
- obtained before the end of the phaseout period. Would *not* affect continued use of stocks of chemicals
- Comment period extended to 1/1/2001
- Public meeting 3/27/2001, Sheraton Crystal City.

Status of PFOS Rulemaking

- 25 comments filed.
- Most comments challenge legal basis of proposed of PFOS chemicals as being essential, low SNUR; also request exemptions for specific uses volume, and low exposure
- semiconductor manufacture; aviation hydraulic Claimed essential uses include photoresists in fluids; and some photolithography.
- Public meeting on 3/27/2001 provides opportunity Comments currently under review.
- for clarification of comments

Related Chemistry Concerns

- PFOA & telomer chemicals raise similar concerns:
- Known persistence.
- PFOA toxicity data in public literature.
- Question: similar bioaccumulative potential?
- Question: similar fate and transport?
- Question: similar widespread exposure?
- preliminary conclusions likely by June 2001 EPA hazard assessment on PFOA underway;
- Telomer producers began voluntary testing in 2000; data to be available in 2002.
- Fluoropolymer manufacturers began additional testing on PFOA/APFO in 2001.

Future EPA Actions

- PFOS:
- Assess and respond to comments on proposed SNUR for 90 3M phaseout PFOS chemicals
- Consider need/options for action on other PFOS chemicals.
- PFOA:
- Complete preliminary hazard assessment by June 2001.
- Assess new data as received.
- Identify needs/options for action.

Future EPA Actions

- Telomers:
- Begin EPA review of existing data.
- Review submissions from voluntary industry testing program in 2001-2002.
- International Activities:
- Participate in initial assessment of PFOS by Development; further action to be determined Organization for Economic Cooperation and

Future EPA Actions

- Regulatory actions available under the Toxic Substances Control Act include:
- Testing requirements (section 4).
- SNURs, new chemical reviews (section 5).
- Manufacturing, use, disposal rules (section 6).
- Information submission (section 8).
- availability of alternatives at time of proposal TSCA uses an "unreasonable risk" standard balancing hazard, exposure, benefits, costs,

Future Actions

- Voluntary activity may be expected in lieu of or while regulatory activities are pending. If assessments raise liability concerns, more
- New chemicals are being submitted to EPA for companies may elect to discontinue chemicals.
- review as potential substitutes for PFOS/PFOA. Presence of new chemical alternatives may affect TSCA "unreasonable risk" determinations

AFFF Implications

- Current EPA activities would not restrict obtained prior to the 12/31/2002 phaseout. continued use of PFOS-based AFFF stocks
- Current EPA activities would prevent phaseout, including PFOS-based AFFF, unless 90-day notice filed and approved. manufacture or import of PFOS after

AFFF Implications

- Non-PFOS-based AFFF products formulated with be subject to future regulatory or voluntary risk EPA reviews of these related chemistries, and may management actions PFOA or telomers may be affected by ongoing
- Persistence is known: information on toxicity. bioaccumulative potential being assessed or collected.
- Initial assessments will be completed in 2001-2002
- years. If undertaken, regulatory proceedings average 2-5

AFFF Implications

- A program to seek, test, and consider long-range alternatives to current fluorosurfactant-based AFFF would be prudent.
- Health and environmental concerns generally argue for a move away from persistent chemicals where possible
- stocks of currently accepted chemicals alternatives, while still allowing access to and use of Ongoing EPA activities provide a multi-year window for development, evaluation, and qualification of

For Further Information

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- For data CDs from PFOS file (AR-226), noon to 16:00 Eastern time. TSCA NCIC, 202-260-7099, Monday-Friday,
- To attend 3/27/2001 PFOS SNUR public washington.annette(a)epa.gov meeting: Annette Washington, 202-260-3515,