

FIRE SUPPRESSION AND EXPLOSION PROTECTION SECTOR—STREAMING AGENTS—ACCEPTABLE  
SUBJECT TO NARROWED USE LIMITS—Continued

End-use	Substitute	Decision	Conditions	Comments
Streaming .....	H Galden HFPEs .....	Acceptable subject to narrowed use limits.	For use only in non-residential areas.	For operations that fill canisters to be used in streaming applications, EPA recommends the following: —Adequate ventilation should be in place; —All spills should be cleaned up immediately in accordance with good industrial hygiene practices; and —Training for safe handling procedures should be provided to all employees that would be likely to handle containers of the agent or extinguishing units filled with the agent. See additional comments 1, 2, 3, 4.

Additional comments.  
 1—Discharge testing should be strictly limited to that which is essential to meet safety or performance requirements.  
 2—The agent should be recovered from the fire protection system in conjunction with testing or servicing, and recycled for later use or destroyed.  
 3—EPA has no intention of duplicating or displacing OSHA coverage related to the use of personal protective equipment (e.g., respiratory protection), fire protection, hazard communication, worker training or any other occupational safety and health standard with respect to halon substitutes.  
 4—As with other streaming agents, EPA recommends that potential risks of combustion by-products be labelled on the extinguisher (see UL 2129)

[68 FR 4010, Jan. 27, 2003]

APPENDIX M TO SUBPART G OF PART 82—UNACCEPTABLE SUBSTITUTES LISTED IN THE  
SEPTEMBER 30, 2004 FINAL RULE, EFFECTIVE NOVEMBER 29, 2004

FOAM BLOWING—UNACCEPTABLE SUBSTITUTES

End-use	Substitute	Decision	Comments
<b>All foam end-uses:</b> —Rigid polyurethane and polyisocyanurate laminated boardstock —Rigid polyurethane appliance —Rigid polyurethane spray and commercial refrigeration, and sandwich panels —Rigid polyurethane slabstock and other foams —Polystyrene extruded insulation boardstock and billet —Phenolic insulation board and bunstock —Flexible polyurethane —Polystyrene extruded sheet <b>Except for:</b> <sup>1</sup> —Space vehicle —Nuclear —Defense —Research and development for foreign customers	HCFC-141b .....	Unacceptable .....	Alternatives exist with lower or zero = ODP.

<sup>1</sup> Exemptions for specific applications are identified in the list of acceptable substitutes.

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