
From: Fletcher, Steven G CIV NAVSEA HQ, SEA 05
To: Hunstad, Mary P CIV NAVSEA HQ, SEA 05; Smith, Gordon CIV SEA 05
CC: Berkoski, Daniel T CIV NAVSEA, SEA 05
Sent: 7/12/2016 5:42:57 PM
Subject: RE: PFOS/PFOA warnings
Attachments: Australia Military AFFF Health Hazards.pdf

Mary,

The following is what I have that directly related to exposure to PFCs in AFFF. The attached document is from the Australian Military and is the best I have found so far. I have an email out to Ian Raymond as it seems that the Australians are far ahead of us wrt health hazards of AFFF.

EPA: (PFCs) Potential pathways, which may lead to widespread exposure, include ingestion of food and water, use of commercial products or inhalation from long-range air transport of PFC-containing particulate matter (ATSDR 2009; EPA 2009c).

Below is guidance that is not specific to PFCs:

Chemguard - " The concentrates are not considered primary or secondary skin irritants; however, prolonged contact may cause some dryness of the skin since they contain detergents. Chemguard recommends that areas of the skin, which have come in contact with the concentrate, be flushed with fresh water. If any dryness of the skin is experienced, a good quality hand cream should be used to replenish the moisture in the skin."

Chemguard MSDS - " 5.5. Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear."

National MSDS - " Individual protection measures: Respiratory Protection
Wear respiratory protection if there is a risk of exposure to high vapor concentrations, aerosols or if applied to hot surfaces. A NIOSH approved full face respirator may be worn. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator."

v/r,

Steve Fletcher, P.E.
Fire Protection Engineer
NAVSEA HQ, SEA 05P5
202-781-0932

-----Original Message-----

From: Hunstad, Mary P CIV NAVSEA HQ, SEA 05
Sent: Tuesday, July 12, 2016 10:48 AM
To: Fletcher, Steven G CIV NAVSEA HQ, SEA 05; Smith, Gordon CIV SEA 05
Cc: Berkoski, Daniel T CIV NAVSEA, SEA 05
Subject: PFOS/PFOA warnings

Steve -

I think one of the questions we are going to get asked by the fleet is, what precautions (if any) they need to be taking when handling AFFF. Either filling tanks or testing flight deck systems or any action that causes skin exposure or potential inhalation of a "mist". Can you see if there is anything in what the EPA posted recently (or further back) that would imply we need to take some action on warnings or precautions or other? Might need to look elsewhere than EPA info.

US00007712

Please make this a priority for today in case this comes up when we brief RDML Selby later this week. If there are other priorities today, let me know.

At least tell us what you find by end of today, just in case we don't see you tomorrow.

Gordon - if you have any ideas on how to go about this, please let us know.

Thanks,
Mary

v/r,
Mary Hunstad
TWH - Fire Protection Systems
And Material Fire Performance
SEA 05P5
WNYD, bldg. 197, 3W-2827
202-781-3632