

## Very Important Information for All

I don't know if your group has a forum for disability discussion but I did want you to know that I am currently pushing on the VA about the number of nuclear submarine sailors that are dying from illness related to the DBNP additive to 2190TEP oil. I currently have information on 6 friends that have died of colon cancer/gall bladder-kidney/liver ulcers/diabetes/pneumonia and other cancers related to this additive (all died before the age of 53).

This additive was more of a problem for nuclear submariners because they spent so much time breathing the same air with this crap in it. It turned our skin yellow. It could not be removed by the precipitators onboard.

Note, I currently have liver damage discovered in 1991 (I am a non-drinker) and diabetes. I also developed Barrettes Esophagus which is a pre-cancer growth in the esophagus. I have included some information on the additive below and attached a .pdf document of a US Navy study done.

1. \*Absorption, Distribution, and Clearance of 2,6-Di-tert-Butyl-4-nitrophenol (DBNP)\*; Still, Jederberg, Briggs, Jung, Prus, Ritchie, Godfrey, Naval Health Research Center Detachment (Toxicology) online <http://www.dtic.mil/cgi-bin/GetTRDoc?AD=ADA411200> \*Reference Quotes Source: Document Attached\*

a) "In 1992, the Navy Environmental Health Center in Norfolk, VA was informed of about the discoloration or yellowing of the interiors in the US submarine fleet and possible exposure of Navy personnel to this unknown substance."

b) "The submarine surface yellowing was reported to General Dynamics Electric Boat Division (EBD), who determined that the phenomenon was related to presence of the nitrophenol, 2,6-Di-tert-butyl-4-Nitrophenol (DBNP, CAS #728-40). DBNP is an intensely yellow crystalline material (melting point = 157°C) resulting from the nitration of 2,6-di-tertbutylphenol (DBP)."

c) "While provisions have been made to remove DBP from the manufacturing specifications of 2190 oils, the stockpile of DBP-containing 2190 lube oil is large enough that the potential for Navy personnel to be exposed to DBNP will exist for several more years."

d) "The solubility of nitrophenols in lipid carriers provides a mechanism by which DBNP deposited on foods, food-processing equipment, eating utensils or in drinking water might ultimately be delivered to humans, particularly during ingestion of foods (i.e., salad oils, etc.) high in lipid content.

e) "Accumulation of DBNP in the fat would further explain the toxic consequences of repeated exposure to relatively low concentrations of DBNP"

f) "Most of the DBNP concentrates in the fat, kidney, lung, and liver within 24 hours after dosing. By the third day, the majority of the dose remains in the fat, kidney, or liver.

g) "Further, it would appear that the persisting presence of DBNP in various tissues for as long as 5-6 days provides a mechanism by which accumulation with repeated exposure could occur. These considerations are important for at least military risk assessment issues. For example, submarine personnel can orally ingest crystalline DBNP (or the precursor DBP) mixed with food high in lipid content on a daily basis during continuous assignments lasting up to 6 months."

h) "The identification of DBNP in the liver, kidneys, heart, lungs, striated muscle and spleen is consistent with previous reports of DBNP-induced histopathology in at least those organs"

i) "Congestion in the liver, with fatty accumulation in hepatocytes; increased liver weight and liver: body weight ratio"

j) "To date, no military person exposed repeatedly to DBP or DBNP aboard a submarine has reported illness that has been associated with such an exposure. However, it also must be considered that submariners represent the extreme of a "healthy worker" population, and that some subtle health effects possibly induced by repeated DBNP exposure may not be readily detected for many months or years of exposure."

Note, if you feel this was inappropriate for me to send to you, I understand. I just want to get more people informed before we all lose more friends.

Thanks,  
Steve Stone  
Duke Energy HR Talent Development Systems  
eLearning Team  
704-607-3978

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