



CHEMGUARD F-304

CHEMGUARD F-304 is a highly concentrated, proprietary blend of CHEMGUARD fluorosurfactants. This "superconcentrate" has been designed to be used primarily for the formulation of high efficiency AFFF concentrates that meet the requirements of UL Standard (UL 162) and US military specifications, such as Mil-F-24385F. It can be diluted directly with fresh (tap) water and appropriate amounts of hydrocarbon surfactants and solvents to manufacture AFFF's (1, 3 and 6%). With a proper adjustment of the dilution ratio of CHEMGUARD F-304 to prepare the concentrate, one can also formulate AFFF products that can meet other specifications.

Typical Properties¹:

Appearance	Slightly hazy, yellow to light green liquid
Composition	33.5% actives, 8.1% hexylene glycol, 6.1% butyl carbitol, 46.2% water
Density	1.13g/ml at 25°C
Flash Point	40°C Pensky-Martens Closed Cup
pH	5.4 – 6.4
Freezing Point	8°C (DSC 5°C/min heating rate)
Stability	Store between 5°C and 50°C. Some solids will separate out at temperatures below 5°C over time. If frozen or solids separate out of the product, bring it to room temperature to return product to a clear liquid. Freezing and thawing will not affect the properties or performance.

¹ Not for specification purposes.

May, 2005

SELLER MAKES NO REPRESENTATION OR WARRANTY, EXPRESSED OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. No statements herein are to be construed as inducements to infringe upon any relevant patent. Under no circumstances shall Seller be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results are based on controlled or lab work and must be confirmed by Buyer by testing for its intended conditions of use.