



Technical Service Bulletin (TSB)

Effective Date: **December 1st 2010**

Parts Covered by this TSB Statement: **EcoSafe® FR-46, ESFR-46 Hydraulic Fluid**

AVS supplies “EcoSafe® FR-46”, “ESFR-46” Hydraulic fluid manufactured by American Chemical Technologies, Inc. in its systems.

This fluid is commonly installed in AVS manufactured systems as the hydraulic fluid of choice & is circulated in the hydraulic circuits offering motive power to hydraulic rams, pistons, actuators and or motors.

Current AVS Customers:

Customers using this product are cautioned that other hydraulic fluids are incompatible with this noted fluid and if used to top up, replace or added inadvertently to the hydraulic system, can cause irreparable damage, system contamination, precipitates, seal failures and or system shutdowns.

The **EcoSafe®** fluid supplied with AVS systems is a FM Group II (HF-D) “less flammable hydraulic fluids” and has a fully synthetic base stock with enhanced biodegradability. Please see or request product information from AVS or American Chemical Technologies for specific details.

Questions and Answers:

Question	Answer
Why is AVS making this cautionary statement?	Because AVS has reason to believe that customers may have or could in the future, mix incompatible hydraulic oils with the originally installed / supplied hydraulic fluids in an AVS system and cause damage to the systems
Can I add hydraulic additives to this fluid?	No, most “oil soluble” hydraulic oil additives are NOT soluble in EcoSafe®