

PRODUCT STEWARDSHIP SUMMARY

AUTOMATIC TRANSMISSION FLUID ADDITIVES**Introduction**

Afton Chemical is the world's leading supplier of automatic transmission fluid (ATF) additives. Our ATFs are used in factory fill applications by many of the world's leading automotive OEMs, and our value-added service fill additives are formulated to meet specific customer needs from the latest OEM specifications to cost effective solutions and base oil compatibility. Using Afton ATF additives ensures the very latest OEM performance requirements for torque capacity, friction durability and flexible friction characteristics for today's highly sophisticated and demanding transmissions.

Uses and Advantages

Afton Chemical Corporation's automatic transmission additives are formulated to help enable first-rate performance in automatic transmissions worldwide when blended with recommended base oils according to guidelines. As one of the world's largest automatic transmission additive manufacturers, Afton Chemical formulates high-quality additives for all major automatic transmissions: step-type, continuously variable (CVT), dual-clutch transmissions (DCT), dedicated hybrid transmission (DHT), and electric vehicles (EV).

Afton Chemical's portfolio of ATFs consistently delivers superior performance in the following ways:

- Oxidation Control & Stability – protects transmissions against sludge & varnish buildup
- Friction Control – balances torque transfer and encourages smooth shifting
- Friction Durability – maintains consistent friction performance over time
- Shear Stability – maintains correct and consistent fluid viscosity over time
- Low-Temperature Performance – retains proper fluidity even in cold-weather applications
- Extreme Pressure & Anti-Wear Protection – helps maintain parts durability in high-pressure
- Foam & Aeration Control – helps eliminate entrapped air to encourage peak performance from transmission pump
- Corrosion control & material compatibility – prevents damage of metal, and other critical parts, that come into contact with the lubricant

Health Effects

ATF additive packages can cause adverse health effects through skin contact or inhalation. Health effects vary depending on the specific components in the additive package but may include irritation or corrosion of eyes and skin. Most of the additive packages contain components that cause reproductive effects following exposure to high doses or for extended periods of time. A few additive packages contain components that may cause skin sensitization, and some may cause organ toxicity after prolonged exposure to high doses, with the primary effects occurring to the gastrointestinal tract, thymus, blood system, kidneys and/or lymph nodes in animals. However, the majority of ATF additive packages are not classified for skin sensitization or for causing organ effects after chronic exposure. ATF additive packages are not expected to be mutagenic or carcinogenic.

Environmental Effects

These additives range from non-toxic to toxic to aquatic life, with long-lasting effects. Some may contain components that may be persistent in the environment, but generally would not be considered PBT (Persistent, Bioaccumulative, and Toxic) or vPvB (very Persistent very Bioaccumulative).

Exposure

For industrial workers, the most common route of exposure is via skin contact during manufacturing and processing. The extent of exposure can depend on the type of manufacturing system (open or enclosed), adequacy of engineering controls, material handling practices, and use of personal protective equipment. Handling at elevated temperatures or generating vapors or mists can increase inhalation exposure which is otherwise not considered a significant route of exposure.

For professional and consumer use, the primary route of exposure is via skin contact with transmission fluids that can occur during fluid changes or when adding transmission fluid to vehicles. Inhalation is not generally a concern for professional or consumer use. Exposure to the additives is less in the finished transmission due to their reduced concentration. Many transmission fluids are either not classified as hazardous according to the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) or have relatively low hazard classifications compared to the additive package.

Risk Management

Automatic Transmission Fluid Additives are formulated to meet various performance requirements. The health and environmental risks of these products can vary depending on the product as well as the conditions encountered during their use. Information on the safe handling of these products is provided to users through the safety data sheets. Appropriate engineering, administrative controls (work practices), and personal protective equipment are recommended to control exposures during manufacture and use.

Conclusion

Afton's additives deliver superior performance across driveline applications by reducing end-user costs, enhancing reliability, and increasing durability of their ATF additives. Afton is committed to providing its customers with the information they need to responsibly manage any safety, health, and environmental risks associated with the intended use of Afton products.

For additional information, contact us at:

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