

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 also meet the very latest OEM specifications. Using Afton ATF additives ensures the very latest friction, lubrication and durability technology for today's highly sophisticated and demanding transmissions.

Uses and Advantages

Afton Chemical Corporation's portfolio of automatic transmission additives are formulated to help enable first-rate performance in automatic transmissions the world over, when blended with recommended base oils according to guidelines. As the world's largest automatic transmission additive manufacturer, Afton Chemical formulates high-quality additives for all major automatic transmissions: step-type, continuously-variable (CVT) and dual-clutch transmissions (DCT). Afton Chemical has a well-established market position as a provider of quality additives, including OEM-licensed ATF's, and the world's only dual-licensed automatic transmission additive.

Afton Chemical's portfolio of ATF's 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

Health Effects

Most of Afton's automatic transmission additives are not classified as hazardous for human health; however, those that are hazardous are generally classified as irritants. Health problems such as irritation of the skin and eyes are associated with excessive skin and airborne exposures to the additives.

Environmental Effects

These additives generally range from non-toxic to harmful to the aquatic environment. They may cause long-term adverse effects in the aquatic environment; some contain components which may be persistent in the environment.

Exposure

The extent of exposure can depend on the type of system (open or enclosed), adequacy of engineering controls, adequacy of fluid management measures and other workplace practices. Methods of avoiding direct contact with automatic transmission additives include wearing chemical resistant gloves, boots, safety eyewear, and appropriate respiratory protection as necessary. Adequate exhaust ventilation or other engineering controls should be provided to keep airborne concentrations of fumes, mists and vapors below their respective threshold limit value.

Risk Management

Automatic Transmission Fluid Additives are formulated to meet a wide range of 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 provision of safety data sheets. Appropriate engineering controls, work practices and personal protective equipment are needed 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 health and environmental risks associated with the intended use of Afton products.

For additional information, contact us at:

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