

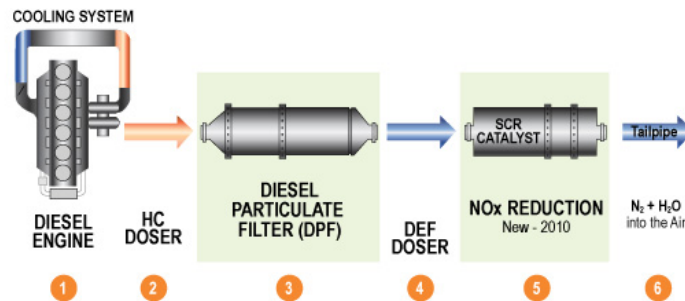
Diesel Emission Fluid

Selective Catalytic Reduction (SCR) is a technology that injects urea – a liquid-reductant agent – through a catalyst into the exhaust stream of a diesel engine.

Diesel Emission Fluid or Diesel Exhaust Fluid (**DEF**) (Aqueous Urea Solution 32.5%) is used in the SCR process to reduce emissions of oxides of nitrogen from the exhaust of diesel engines in motor vehicles. The urea sets off a chemical reaction that converts nitrogen oxides into nitrogen and water, which is then expelled through the vehicle tailpipe

DEF is typically a 32.5% solution of high-purity urea in demineralized water that is clear, non-toxic and is safe to handle. However, it can be corrosive for some metals, and must be stored and transported using the correct materials.

DEF is carried on board SCR-equipped vehicles in specially designed tanks, and is dosed into the SCR system at a rate equivalent to 3–5% of diesel consumption. This low dosing rate ensures long refill periods and minimizes the tank's impact on chassis space. On-highway SCR systems are currently in use throughout Europe, in Japan, Australia, Hong Kong, Taiwan, Korea, New Zealand and Singapore. The United States Environmental Protection Agency's (US EPA) 2010 legislation will limit NO_x to levels that will require North American trucks to be equipped with SCR after 2010.



The use of SCR technology in has made it necessary to develop a DEF supply infrastructure. DEF is available from service stations, automobile dealerships, auto part stores and most commonly, at truck stops. Large quantities of DEF is available in a variety of size and containers 55 gal drums, 260 gal Intermediate Bulk Containers (IBCs or totes), and bulk.

The department's review of the MSDS information has determined the DEF gives off an ammonia odor which would meet the definition of an ammonia derivative in the regulation. However, the product contains less than 0.3% ammonia. Therefore, it would meet the de minimis exemption provided in the regulations, making this product exempt from the requirements of 62-761 and 62-762, Florida Administrative Code.

