

**SUBJECT: Diesel Exhaust Fluid (DEF) Compatibility Discussion**

**October 8, 2012**

Diesel Exhaust Fluid (DEF) is an aqueous solution containing 32.5% pure Urea and 67.5% deionized water. Introduced in the North American market in 2006, DEF is used in all Selective Catalytic Reduction (SCR) equipped engines. All DEF made for the North American market must meet ISO specification 22241-1:2005 and be API certified. Additionally, all brands that were researched for this bulletin also met DIN 70070 certification which is the German Institute for Standardization.



There are many different manufacturers of DEF as well as many different brand names. DEF that meets the ISO standards and is API certified is safe to use in all SCR equipped applications, so it can be said that as long as the DEF solution you are using meets the ISO and API certifications it is safe to use in any vehicle application that requires DEF. DEF is readily available throughout North America and can be found at parts stores, filling stations, truck stops and OE dealerships. For a complete listing of places to obtain DEF go to [www.discoverdef.com](http://www.discoverdef.com).

The table below depicts the most common brands of DEF available in our market as well as their certifications. It is recommended to research and determine if the brand of DEF you are using has the proper certification before adding it to any SCR system. Failure to do so can cause damage to the SCR system and lead to costly repairs.

<b>Diesel Exhaust Fluid (DEF) Manufacturers</b>				
<b>Brand</b>	<b>Manufacturer</b>	<b>ISO (22241-1:2005)</b>	<b>API Certified</b>	<b>DIN 70070 Certified</b>
TerraCair Ultra Pure	TerraCair	Yes	Yes	Yes
Blue Def	Old World Industries	Yes	Yes	Yes
Nox Blue	Core Fluids LLC	Yes	Yes	Yes
Air 1	Yara Corp.	Yes	Yes	Yes
H2 BLU	Wakefield Canada	Yes	Yes	Yes
DEFendal DEF	Tilley Chemicals	Yes	Yes	Yes
Clear DEF	Cul-Mac Industries	Yes	Yes	Yes
AIRx	Airgas	Yes	Yes	Yes
Victory Blue	VicNRG	Yes	Yes	Yes
AIR Shield	VicNRG	Yes	Yes	Yes
Clean Blue	TRP	Yes	Yes	Yes
AIR Blue Fluids	CDI	Yes	Yes	Yes