

## For Use In All SCR Emission Control Systems



### High purity 32.5% Aqueous Urea Solution

P/N	DESCRIPTION
PTDEF-001	1 GALLON
PTDEF-002	2 GALLONS
PTDEF-055	55 GALLONS
PTDEF-275	275 GALLONS

*Certified and monitored by the American Petroleum Institute (API) as meeting ISO specifications for purity and quality to insure the DEF you put in your tank runs clean and won't foul your SCR System.*



### Meets ISO 22241 specifications • API Certified

Non-Toxic • Non-Flammable • Non-Polluting • Non-Hazardous  
No Special Handling Required

### PrimaTech DEF Meets Applicable Standards, Specifications and Performance Requirements for use in all SCR Emission Control Systems

#### Why do I need DEF?

In order to meet the EPA 2010 mandate that oxides of nitrogen (NOx) emitted from Class 6, 7 and 8 diesel truck engines be reduced to almost zero levels by 2010, most manufacturers have chosen to use Selective Catalytic Reduction (SCR) technology.

#### How does it work?

SCR Emission Control Systems consist of a catalyst, a reducing agent (DEF) and a dosing system which injects a mist of DEF into the exhaust downstream of the engine and diesel particulate filter. The DEF mist vaporizes in the heat of the exhaust forming ammonia and carbon dioxide which then reacts with the catalyst and NOx emissions, converting NOx to nitrogen and water, which are harmless.

#### What are the product specifications?

All you need to know is our DEF can be used in all SCR systems and meets IOS22241 specifications.

#### How much will I use?

SCR systems are designed to use approximately 2 gallons of DEF for every 100 gallons of fuel, with a range among most engine manufacturers reported to be around 1 to 3 gallons DEF/100 gal fuel. Actual usage may run higher as consumption will vary with engine performance and driving conditions. SCR equipped trucks are expected to provide increased engine efficiency/fuel economy, providing a reduction in operating costs, even when factoring in the additional cost of DEF.

#### What happens if I run out?

If you run out of DEF, engine power will be substantially reduced until you add DEF.

#### What if it freezes?

DEF freezes below 12° F, but freezing will not harm DEF. It can be used again, once it thaws. DEF tanks will be equipped with heaters to keep DEF liquid in cold temperatures.

#### What about storage?

DEF should be stored at temperatures between 10 and 86°F. Above 86° F, shelf life (in a non-vented container) may degrade to less than a year. DEF is corrosive, such as to aluminum, copper, brass and zinc, and should be stored in approved containers such as HDPE plastic or stainless steel. DEF and all surfaces with which it comes into contact must be completely clean or it will compromise the DEF's purity and harm or degrade the SCR system.