



## What is DEF?

**Diesel Exhaust Fluid (DEF)** is a solution of high purity urea and de-ionized water. It is the operating fluid required in vehicles using Selective Catalytic Reduction (SCR) technology. Engineers developed the technology to meet the 2010 emission standards for reducing nitrogen oxide (NO<sub>x</sub>) exhaust emissions from diesel engines.

The fluid is contained in a designated DEF tank and it is sprayed into the exhaust system before the catalytic converter breaks down NO<sub>x</sub> into harmless nitrogen and water vapour.

DEF has a shelf life of 12 months if the required storage conditions are followed. However, DEF that has been stowed for a longer period may be usable if analyzed to confirm that it still meets the DEF specification. Storage facilities can be adapted to suit customer needs.

## H2Blu DEF - Why it's important

**H2Blu DEF** is API certified and meets the automotive industry specification defined by ISO 22241 to ensure its purity and composition. A non-toxic, stable, odorless and colorless solution, this product is safe to handle and use.

**H2Blu DEF** helps to avoid clogging or damage in the catalytic converter and prevent loss of warranty coverage by the vehicle manufacturer. It aids in achieving maximum vehicle performance and efficiency.



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# H2Blu<sup>TM</sup> **MAXIMUM PURITY** **MAXIMUM PERFORMANCE**

**2** DIESEL EXHAUST FLUID

## H2Blu DEF are available in these sizes

### Jug

### Drum

### Tote

ITEM NO.	55-125H2B
VOLUME	2 X 9.46 L (2.5 GAL) / CASE
CASE DIMENSIONS	9.8" L x 15.6" W x 12.2" H
WEIGHT PER CASE	21.55 KG
UNITS PER PALLET CONFIGURATION	48
UPC#	0-56012-70125-1
SCC#	100-59934-90658-9

ITEM NO.	55-129H2B
VOLUME	208 L (55 GAL.) DRUM
CASE DIMENSIONS	—
WEIGHT PER CASE	—
UNITS PER PALLET	4
UPC#	0-56012-01890-8
SCC#	N/A

ITEM NO.	55-129H2B-1000
VOLUME	1040 L (275 GAL.) TOTE
CASE DIMENSIONS	—
WEIGHT PER CASE	—
UNITS PER PALLET	1
UPC#	0-56012-70275-3
SCC#	N/A



For further information, please contact the Blue Network team:

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## SCR Technology

**Selective Catalytic Reduction (SCR)** is a new technology which leading North American heavy duty diesel engine makers adopted after testing various technologies intended for reducing emission levels to the required EPA standards.

SCR technology achieves the reduction of exhaust fume emissions required, and allows for maximum engine operation in terms of performance and fuel economy.

The use of **H2Blu DEF** is the most effective way to take full advantage of SCR technology and to protect engine systems from the possibility of gradual degradation or clogging due to contamination. It also helps to prevent the loss of efficiency, costly parts replacement and engine downtime.

## How does SCR work?



SCR technology reduces the concentration of nitrogen oxide ( $\text{NO}_x$ ) gases that are produced inside the engine during combustion. This process requires the right amount of DEF to be injected into the exhaust stream. Upon mixing with exhaust gases, it is hydrolyzed before the catalytic converter breaks down nitrogen oxide ( $\text{NO}_x$ ) into harmless nitrogen ( $\text{N}_2$ ) and water ( $\text{H}_2\text{O}$ ).





## Answers to your DEF Questions

### What is DEF and how should it be used?

DEF is a mixture of high purity urea (32.5%) and water (67.5%). It is used to chemically reduce the concentration of nitrogen oxide (NO<sub>x</sub>) in the exhaust emissions from diesel engines. DEF is contained in a designated DEF tank on the vehicle. Never fill the diesel fuel tank with DEF or try to use it as a fuel additive.

### How much H2Blu DEF is required?

DEF does not have to be replenished every time the diesel fuel tank is being filled. The required amount is about 3% of the vehicle's diesel fuel consumption; ie. For every 100 gallons of diesel fuel consumed, only 3 gallons of DEF is required.

### Is DEF harmful?

DEF is non-toxic, stable, odorless and colorless. If it gets on your skin or clothes, rinse with water. If in eyes, flush with clean water for at least 15 minutes. Although DEF is colourless, avoid spilling on clothing or vehicle upholstery.

### What makes H2Blu DEF so special?

Heavy-duty vehicle manufacturers demand a high level of purity for DEF to honor the warranty they give on their vehicles. **H2Blu DEF** is a quality fluid that is API certified and meets ISO 22241 to ensure its purity and composition. It is delivered in dedicated, sealed DEF containers for protection from contamination, to help prevent damage to the vehicle's catalyst.

### How should DEF be stored?

DEF should be stored in a cool, dry, well-ventilated area at a constant temperature. For optimal shelf life (12 months), store between 86°F/30°C and 12°F/-11°C. It is better to keep DEF indoors, but an outdoor heated enclosure/container is also suitable. Avoid storing in direct sunlight. DEF will freeze at 12°F/-11°C. However, frozen fluid can be thawed and used without concerns of product degradation.

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