

Automotive Diesel Exhaust Fluid Market ? Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Vehicle Type (Passenger Car, Light Commercial Vehicle, Medium and Heavy Commercial Vehicle, OTR), By Component (SCR Catalyst, DEF Tank, DEF Injector, DEF Supply Module, DEF Sensor, NOX Sensor), By Supply Mode (Cans & Bottles, Intermediate Bulk Container, Bulk, Pump), By Region & Competition, 2021-2031F

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Abstracts

The Global Automotive Diesel Exhaust Fluid Market is projected to expand from USD 37.48 Billion in 2025 to USD 55.12 Billion by 2031, reflecting a Compound Annual Growth Rate of 6.64%. This fluid, a mixture of urea and deionized water, functions within Selective Catalytic Reduction systems to transform nitrogen oxide emissions into harmless nitrogen and water vapor. The market is primarily propelled by the rigorous enforcement of international environmental regulations requiring strict emissions compliance for internal combustion engines, alongside the heavy transport sector's continued reliance on diesel engines, which provides a stable demand base regardless of fleeting consumer trends.

A major obstacle potentially hindering market growth is the instability surrounding the global price and supply of urea, which introduces cost unpredictability for both manufacturers and fleet operators. Despite this challenge, the industry is sustained by the enduring dominance of diesel technology in commercial transportation. For example, the European Automobile Manufacturers' Association reported that in 2024, diesel trucks comprised 95.1% of new registrations in the European Union. This statistic

highlights the commercial sector's continued dependence on diesel propulsion, confirming the essential and ongoing need for diesel exhaust fluid.

Market Driver

The enforcement of stringent global mandates regarding nitrogen oxide emissions acts as the main driver for the Global Automotive Diesel Exhaust Fluid Market. As regulators tighten exhaust standards, original equipment manufacturers are obligated to equip almost all new diesel vehicles with optimized Selective Catalytic Reduction systems, transforming fluid consumption from an option into an operational requirement. Illustrating this regulatory pressure, the Council of the European Union officially adopted the Euro 7 regulation in April 2024, establishing rigorous standards for vehicle lifetime emissions and non-exhaust limits, thereby ensuring the long-term integration of advanced aftertreatment systems and sustaining demand across European and global markets.

Concurrently, rising volumes in logistics and freight transportation directly boost market consumption rates. As economic activity demands the movement of goods, heavy-duty fleets accumulate higher mileage and require more frequent refilling cycles, creating a recurring revenue stream directly linked to freight tonnage. According to the American Trucking Associations, total truck tonnage is projected to rise from an estimated 11.27 billion tons in 2024 to 13.99 billion tons by 2035, as noted in January 2025, indicating a steady trajectory for fluid usage. Additionally, the continuous global production of commercial diesel units supports this demand; the Society of Indian Automobile Manufacturers reported domestic sales of 967,878 commercial vehicles for the fiscal year ending March 2024, underscoring the strong baseline of diesel assets entering service.

Market Challenge

The instability of global urea prices and availability represents a critical challenge that directly impedes the growth of the Global Automotive Diesel Exhaust Fluid Market. Because urea is the primary active ingredient, its reliable supply is crucial for manufacturers to uphold consistent pricing and production schedules. Fluctuations in global availability generate immediate cost instability that is difficult to mitigate, preventing suppliers from securing long-term fixed-price contracts with logistics firms. This unpredictability creates financial friction within the supply chain, discourages essential infrastructure investments, and slows the expansion of distribution networks, thereby stalling overall market progress.

Restrictive trade policies in major producing nations further exacerbate this issue by severely tightening global inventory levels. For instance, the China Nitrogen Fertilizer Association reported in May 2025 that the industry enforced a strict urea export quota of just 2 million tonnes to prioritize domestic agricultural needs. This significant cut in export volume from a major global supplier generates artificial scarcity, driving up international prices and causing shortages for fluid manufacturers. Such disruptions in the supply chain highlight how raw material insecurity continues to act as a significant constraint on the industry's capacity to satisfy the expanding requirements of the commercial transport sector.

Market Trends

The Global Automotive Diesel Exhaust Fluid Market is undergoing a fundamental shift in its upstream supply chain through the adoption of sustainable and low-carbon urea production methods. To assist commercial fleet operators and logistics companies in meeting Scope 3 emission reduction goals, urea manufacturers are moving from traditional natural gas-based synthesis to green and blue ammonia processes, ensuring the fluid contributes to total carbon lifecycle reductions rather than just tailpipe emissions. Progressing this trend, SABIC Agri-Nutrients Company was finalizing a new low-carbon ammonia and urea production facility in Jubail Industrial City in February 2025, aiming to supply the rising demand for environmentally responsible chemical feedstocks.

Simultaneously, the expansion of automated bulk dispensing infrastructure at retail stations is streamlining refilling operations while reducing plastic waste from packaged goods. Network operators are aggressively installing on-island dispensing capabilities to meet the efficiency needs of long-haul logistics providers, enabling drivers to refill tanks at the pump alongside fuel to minimize downtime. As reported by Tank Transport in July 2025, Love's Travel Stops announced a strategic plan to build 20 new travel centers across the United States, which will integrate modernized bulk fluid dispensing systems to support the growing density of commercial transport traffic.

Key Market Players

BASF SE

CF Industries Holdings, Inc.

Shell PLC

Yara International ASA

Sinopec Limited

TotalEnergies SE

Cummins Filtration

Honeywell International Inc.

Dyno Nobel

Agrium Inc.

Report Scope

In this report, the Global Automotive Diesel Exhaust Fluid Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Automotive Diesel Exhaust Fluid Market, By Vehicle Type

Passenger Car

Light Commercial Vehicle

Medium and Heavy Commercial Vehicle

OTR

Automotive Diesel Exhaust Fluid Market, By Component

SCR Catalyst

DEF Tank

DEF Injector

DEF Supply Module

DEF Sensor

NOX Sensor

Automotive Diesel Exhaust Fluid Market, By Supply Mode

Cans & Bottles

Intermediate Bulk Container

Bulk

Pump

Automotive Diesel Exhaust Fluid Market, By Region

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Automotive Diesel Exhaust Fluid Market.

Available Customizations:

Global Automotive Diesel Exhaust Fluid Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The

Automotive Diesel Exhaust Fluid Market ? Global Industry Size, Share, Trends, Opportunity, and Forecast, Segme...

following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

Contents

1. PRODUCT OVERVIEW

- 1.1. Market Definition
- 1.2. Scope of the Market
 - 1.2.1. Markets Covered
 - 1.2.2. Years Considered for Study
 - 1.2.3. Key Market Segmentations

2. RESEARCH METHODOLOGY

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

3. EXECUTIVE SUMMARY

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

4. VOICE OF CUSTOMER

5. GLOBAL AUTOMOTIVE DIESEL EXHAUST FLUID MARKET OUTLOOK

- 5.1. Market Size & Forecast
 - 5.1.1. By Value
- 5.2. Market Share & Forecast
 - 5.2.1. By Vehicle Type (Passenger Car, Light Commercial Vehicle, Medium and Heavy Commercial Vehicle, OTR)
 - 5.2.2. By Component (SCR Catalyst, DEF Tank, DEF Injector, DEF Supply Module, DEF Sensor, NOX Sensor)

- 5.2.3. By Supply Mode (Cans & Bottles, Intermediate Bulk Container, Bulk, Pump)
- 5.2.4. By Region
- 5.2.5. By Company (2025)
- 5.3. Market Map

6. NORTH AMERICA AUTOMOTIVE DIESEL EXHAUST FLUID MARKET OUTLOOK

- 6.1. Market Size & Forecast
 - 6.1.1. By Value
- 6.2. Market Share & Forecast
 - 6.2.1. By Vehicle Type
 - 6.2.2. By Component
 - 6.2.3. By Supply Mode
 - 6.2.4. By Country
- 6.3. North America: Country Analysis
 - 6.3.1. United States Automotive Diesel Exhaust Fluid Market Outlook
 - 6.3.1.1. Market Size & Forecast
 - 6.3.1.1.1. By Value
 - 6.3.1.2. Market Share & Forecast
 - 6.3.1.2.1. By Vehicle Type
 - 6.3.1.2.2. By Component
 - 6.3.1.2.3. By Supply Mode
 - 6.3.2. Canada Automotive Diesel Exhaust Fluid Market Outlook
 - 6.3.2.1. Market Size & Forecast
 - 6.3.2.1.1. By Value
 - 6.3.2.2. Market Share & Forecast
 - 6.3.2.2.1. By Vehicle Type
 - 6.3.2.2.2. By Component
 - 6.3.2.2.3. By Supply Mode
 - 6.3.3. Mexico Automotive Diesel Exhaust Fluid Market Outlook
 - 6.3.3.1. Market Size & Forecast
 - 6.3.3.1.1. By Value
 - 6.3.3.2. Market Share & Forecast
 - 6.3.3.2.1. By Vehicle Type
 - 6.3.3.2.2. By Component
 - 6.3.3.2.3. By Supply Mode

7. EUROPE AUTOMOTIVE DIESEL EXHAUST FLUID MARKET OUTLOOK

- 7.1. Market Size & Forecast
 - 7.1.1. By Value
- 7.2. Market Share & Forecast
 - 7.2.1. By Vehicle Type
 - 7.2.2. By Component
 - 7.2.3. By Supply Mode
 - 7.2.4. By Country
- 7.3. Europe: Country Analysis
 - 7.3.1. Germany Automotive Diesel Exhaust Fluid Market Outlook
 - 7.3.1.1. Market Size & Forecast
 - 7.3.1.1.1. By Value
 - 7.3.1.2. Market Share & Forecast
 - 7.3.1.2.1. By Vehicle Type
 - 7.3.1.2.2. By Component
 - 7.3.1.2.3. By Supply Mode
 - 7.3.2. France Automotive Diesel Exhaust Fluid Market Outlook
 - 7.3.2.1. Market Size & Forecast
 - 7.3.2.1.1. By Value
 - 7.3.2.2. Market Share & Forecast
 - 7.3.2.2.1. By Vehicle Type
 - 7.3.2.2.2. By Component
 - 7.3.2.2.3. By Supply Mode
 - 7.3.3. United Kingdom Automotive Diesel Exhaust Fluid Market Outlook
 - 7.3.3.1. Market Size & Forecast
 - 7.3.3.1.1. By Value
 - 7.3.3.2. Market Share & Forecast
 - 7.3.3.2.1. By Vehicle Type
 - 7.3.3.2.2. By Component
 - 7.3.3.2.3. By Supply Mode
 - 7.3.4. Italy Automotive Diesel Exhaust Fluid Market Outlook
 - 7.3.4.1. Market Size & Forecast
 - 7.3.4.1.1. By Value
 - 7.3.4.2. Market Share & Forecast
 - 7.3.4.2.1. By Vehicle Type
 - 7.3.4.2.2. By Component
 - 7.3.4.2.3. By Supply Mode
 - 7.3.5. Spain Automotive Diesel Exhaust Fluid Market Outlook
 - 7.3.5.1. Market Size & Forecast
 - 7.3.5.1.1. By Value

- 7.3.5.2. Market Share & Forecast
 - 7.3.5.2.1. By Vehicle Type
 - 7.3.5.2.2. By Component
 - 7.3.5.2.3. By Supply Mode

8. ASIA PACIFIC AUTOMOTIVE DIESEL EXHAUST FLUID MARKET OUTLOOK

- 8.1. Market Size & Forecast
 - 8.1.1. By Value
- 8.2. Market Share & Forecast
 - 8.2.1. By Vehicle Type
 - 8.2.2. By Component
 - 8.2.3. By Supply Mode
 - 8.2.4. By Country
- 8.3. Asia Pacific: Country Analysis
 - 8.3.1. China Automotive Diesel Exhaust Fluid Market Outlook
 - 8.3.1.1. Market Size & Forecast
 - 8.3.1.1.1. By Value
 - 8.3.1.2. Market Share & Forecast
 - 8.3.1.2.1. By Vehicle Type
 - 8.3.1.2.2. By Component
 - 8.3.1.2.3. By Supply Mode
 - 8.3.2. India Automotive Diesel Exhaust Fluid Market Outlook
 - 8.3.2.1. Market Size & Forecast
 - 8.3.2.1.1. By Value
 - 8.3.2.2. Market Share & Forecast
 - 8.3.2.2.1. By Vehicle Type
 - 8.3.2.2.2. By Component
 - 8.3.2.2.3. By Supply Mode
 - 8.3.3. Japan Automotive Diesel Exhaust Fluid Market Outlook
 - 8.3.3.1. Market Size & Forecast
 - 8.3.3.1.1. By Value
 - 8.3.3.2. Market Share & Forecast
 - 8.3.3.2.1. By Vehicle Type
 - 8.3.3.2.2. By Component
 - 8.3.3.2.3. By Supply Mode
 - 8.3.4. South Korea Automotive Diesel Exhaust Fluid Market Outlook
 - 8.3.4.1. Market Size & Forecast
 - 8.3.4.1.1. By Value

- 8.3.4.2. Market Share & Forecast
 - 8.3.4.2.1. By Vehicle Type
 - 8.3.4.2.2. By Component
 - 8.3.4.2.3. By Supply Mode
- 8.3.5. Australia Automotive Diesel Exhaust Fluid Market Outlook
 - 8.3.5.1. Market Size & Forecast
 - 8.3.5.1.1. By Value
 - 8.3.5.2. Market Share & Forecast
 - 8.3.5.2.1. By Vehicle Type
 - 8.3.5.2.2. By Component
 - 8.3.5.2.3. By Supply Mode

9. MIDDLE EAST & AFRICA AUTOMOTIVE DIESEL EXHAUST FLUID MARKET OUTLOOK

- 9.1. Market Size & Forecast
 - 9.1.1. By Value
- 9.2. Market Share & Forecast
 - 9.2.1. By Vehicle Type
 - 9.2.2. By Component
 - 9.2.3. By Supply Mode
 - 9.2.4. By Country
- 9.3. Middle East & Africa: Country Analysis
 - 9.3.1. Saudi Arabia Automotive Diesel Exhaust Fluid Market Outlook
 - 9.3.1.1. Market Size & Forecast
 - 9.3.1.1.1. By Value
 - 9.3.1.2. Market Share & Forecast
 - 9.3.1.2.1. By Vehicle Type
 - 9.3.1.2.2. By Component
 - 9.3.1.2.3. By Supply Mode
 - 9.3.2. UAE Automotive Diesel Exhaust Fluid Market Outlook
 - 9.3.2.1. Market Size & Forecast
 - 9.3.2.1.1. By Value
 - 9.3.2.2. Market Share & Forecast
 - 9.3.2.2.1. By Vehicle Type
 - 9.3.2.2.2. By Component
 - 9.3.2.2.3. By Supply Mode
 - 9.3.3. South Africa Automotive Diesel Exhaust Fluid Market Outlook
 - 9.3.3.1. Market Size & Forecast

9.3.3.1.1. By Value

9.3.3.2. Market Share & Forecast

9.3.3.2.1. By Vehicle Type

9.3.3.2.2. By Component

9.3.3.2.3. By Supply Mode

10. SOUTH AMERICA AUTOMOTIVE DIESEL EXHAUST FLUID MARKET OUTLOOK

10.1. Market Size & Forecast

10.1.1. By Value

10.2. Market Share & Forecast

10.2.1. By Vehicle Type

10.2.2. By Component

10.2.3. By Supply Mode

10.2.4. By Country

10.3. South America: Country Analysis

10.3.1. Brazil Automotive Diesel Exhaust Fluid Market Outlook

10.3.1.1. Market Size & Forecast

10.3.1.1.1. By Value

10.3.1.2. Market Share & Forecast

10.3.1.2.1. By Vehicle Type

10.3.1.2.2. By Component

10.3.1.2.3. By Supply Mode

10.3.2. Colombia Automotive Diesel Exhaust Fluid Market Outlook

10.3.2.1. Market Size & Forecast

10.3.2.1.1. By Value

10.3.2.2. Market Share & Forecast

10.3.2.2.1. By Vehicle Type

10.3.2.2.2. By Component

10.3.2.2.3. By Supply Mode

10.3.3. Argentina Automotive Diesel Exhaust Fluid Market Outlook

10.3.3.1. Market Size & Forecast

10.3.3.1.1. By Value

10.3.3.2. Market Share & Forecast

10.3.3.2.1. By Vehicle Type

10.3.3.2.2. By Component

10.3.3.2.3. By Supply Mode

11. MARKET DYNAMICS

- 11.1. Drivers
- 11.2. Challenges

12. MARKET TRENDS & DEVELOPMENTS

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

13. GLOBAL AUTOMOTIVE DIESEL EXHAUST FLUID MARKET: SWOT ANALYSIS

14. PORTER'S FIVE FORCES ANALYSIS

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Products

15. COMPETITIVE LANDSCAPE

- 15.1. BASF SE
 - 15.1.1. Business Overview
 - 15.1.2. Products & Services
 - 15.1.3. Recent Developments
 - 15.1.4. Key Personnel
 - 15.1.5. SWOT Analysis
- 15.2. CF Industries Holdings, Inc.
- 15.3. Shell PLC
- 15.4. Yara International ASA
- 15.5. Sinopec Limited
- 15.6. TotalEnergies SE
- 15.7. Cummins Filtration
- 15.8. Honeywell International Inc.
- 15.9. Dyno Nobel
- 15.10. Agrium Inc.

16. STRATEGIC RECOMMENDATIONS

17. ABOUT US & DISCLAIMER

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