bluesky
diesel exhaust fluid

MARINE AUS 40 UREA SOLUTION
FOR MARINE SCR AFTERTREATMENT SYSTEMS



MARINE SCR SYSTEM SUPPORT | **IMO TIER III EMISSIONS SUPPORT** | **NOx EMISSION REDUCTION** | **ISO 18611 QUALITY STANDARD**

Blue Sky® Marine AUS 40 Urea Solution is a high-purity aqueous urea solution formulated for marine diesel engines equipped with compatible Selective Catalytic Reduction (SCR) systems. Containing 40% high-purity urea and 60% purified water by mass, AUS 40 supports the conversion of nitrogen oxides (NOx) into nitrogen and water vapor through SCR technology, helping reduce marine exhaust emissions.

Formulated for demanding marine environments, BLUE SKY® Marine AUS 40 supports consistent SCR operation when used in accordance with equipment manufacturer requirements. Its controlled purity helps minimize contamination-related deposits in sensitive aftertreatment components. The solution is clear, colorless, and non-flammable, and is intended for compatible marine applications, including commercial shipping, passenger vessels, workboats, and marine power systems.

BENEFITS

- **ISO 18611 QUALITY STANDARDS:** Formulated to meet ISO 18611-1 quality requirements for marine AUS 40, supporting consistent fluid purity.
- **HIGH-PURITY FORMULATION:** Controlled purity and low contaminant levels help minimize deposits in sensitive SCR components.
- **IMO TIER III EMISSIONS SUPPORT:** Supports compatible marine SCR systems designed to achieve applicable IMO Tier III NOx emission limits.
- **COMPATIBLE WITH MARINE SCR DOSING SYSTEMS:** Designed for controlled dosing into compatible marine SCR systems requiring AUS 40.
- **MARPOL ANNEX VI APPLICATIONS:** Intended for marine SCR systems supporting applicable MARPOL Annex VI NOx emissions requirements.



APPLICATION:

LOOK FOR THE BLUE CAP | DEF | DEF TANK MARKED WITH BLUE CAP



MEETS THE PERFORMANCE REQUIREMENTS OF:

- ISO 18611-1: Quality Requirements
- ISO 18611-2: Test Methods
- ISO 18611-3: Handling, Transportation & Storage
- IMO MARPOL Annex VI: Marine Emissions Regulatory Framework

PERFECT FIT FOR:

- COMMERCIAL SHIPPING: Container Ships & Cargo Tankers
- PASSENGER VESSELS: Cruise Ships & Passenger Ferries
- HARBOR OPERATIONS: Tugboats & Workboats
- OFFSHORE OPERATIONS: Platform Supply & Support Vessels
- COMMERCIAL FISHING: Fishing Trawlers & Industrial Fishing Vessels
- MARINE POWER SYSTEMS: Marine Generators & Auxiliary Engines

MARKET EVOLUTION & ENVIRONMENTAL TECHNOLOGY:

As global maritime emissions regulations continue to evolve, BLUE SKY® Marine AUS 40 provides a high-purity urea solution for compatible marine Selective Catalytic Reduction (SCR) systems. Designed to support NOx emissions reduction, AUS 40 helps vessel operators meet applicable IMO Tier III requirements when used as part of an appropriately certified marine engine and aftertreatment system.

BLUE SKY® Marine AUS 40 supports dependable exhaust aftertreatment performance across demanding commercial marine applications.

MARINE AUS 40 STORAGE & HANDLING GUIDE

Storage temperature (°C/°F)	Minimum shelf life*
0°C to 25°C (32°F to 77°F)	18 months
Above 25°C to below 30°C (77°F to 86°F)	12 months
30°C to below 35°C (86°F to 95°F)	6 months
Above 35°C (95°F)	Test each batch before use

Reference shelf-life guidance from ISO 18611-3:2014. Actual shelf life depends on storage temperature, initial product quality, and handling conditions. Protect from freezing, contamination, and direct sunlight.

BLUE SKY® MARINE AUS 40
AVAILABLE PACKAGING: DRUM | TOTE | BULK

*Under proper conditions

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1-855-BluSKYDEF
info@BLUESKYDEFNA.com
www.BLUESKYDEFNA.com

bluesky diesel exhaust fluid

The Clear Choice for Clean Air ™

LOGISTICS & PACKAGING

API AMERICAN PETROLEUM INSTITUTE CERTIFIED MARINE DIESEL EXHAUST FLUID









	55 GAL DRUM	275 GAL TOTE	330 GAL TOTE	BULK
Part Number	30001-0	300010-275-40	300010-330-40	30008
Gross Package Weight (lb)	544 lbs.	2,682 lbs.	3,201 lbs.	Varies by Order Vol.
Package Dimensions (in)	22.5" dia x 35.5" H	40" W x 48" L x 53" H	40" W x 48" L x 53" H	---
Units per Pallet	4	1	1	---
Estimated Pallet Weight (lb)	2,226 lbs.	2,682 lbs.	3,201 lbs.	BULK
Layers per Pallet	1	1	1	---
Pallets per Full Truckload	20	14	14	---

*Estimated gross weight; actual weights may vary.

LABORATORY SPECIFICATION MATRIX

Analytical Control Parameter	Product Characteristic & Quality Limits
Urea Concentration (by Weight)	39 - 41%
Appearance / Visual Profile	Clear, colorless liquid
Odor Profile	Mild ammonia-like odor
Specific Gravity (at 20°C)	1.11
Density (at 20 °C)	1.11 kg/L (equivalent to 9.26 lbs. / gal)
Alkalinity as NH_3	≤ 0.2 wt%
Biuret	max 0.8 wt%
Insoluble Matter	≤ 20 mg/kg
pH Value Range	---
Freezing Point Threshold	Approx. 0°C (32°F), crystallization onset
Boiling Point Threshold	---
Refractive Index (at 20°C)	1.3947 to 1.3982

ISO 18611-1 IMPURITY LIMITS: Phosphate (PO_4), Calcium (Ca), Iron (Fe), Magnesium (Mg), Sodium (Na), and Potassium (K): ≤1 mg/kg each; Aldehydes: ≤100 mg/kg.

MATERIAL COMPATIBILITY GUIDE ISO 18611-3

Recommended Metallic Materials — Stainless steel grades 304, 304L, 316, and 316L are recommended for AUS 40 contact. Titanium and compatible corrosion-resistant nickel alloys may also be suitable.

Recommended Nonmetallic Materials — Suitable materials include additive-free PE/HDPE, PP, PTFE, PFA, compatible PVDF formulations, and appropriately formulated fiberglass. Verify seals and gaskets for AUS 40 compatibility.

Materials to AVOID — Avoid carbon steel, galvanized steel, copper, brass, bronze, zinc, lead, aluminum, and other incompatible materials that may corrode or contaminate AUS 40

IMPORTANT: Use clean, compatible tanks, hoses, pumps, fittings, seals, and transfer equipment in accordance with ISO 18611-3..

ADDITIONAL INFORMATION

Testing Requirements:

Use an AUS 40-compatible refractometer with appropriate calibration and temperature compensation to verify urea concentration. For comprehensive ISO 18611 quality and contamination testing, contact the BLUE SKY Fluid Maintenance Program.

Storage Recommendations:

Store in sealed, AUS 40-compatible containers between 5°C and 25°C (41°F to 77°F). Protect from sunlight, freezing, heat, and contamination. AUS 40 may crystallize below 1°C (34°F). Use dedicated, compatible handling equipment. Refer to the Storage & Handling Guide on Page 1 and ISO 18611-3 for additional guidance.

Safety and Environmental Guidance:

Keep away from children and animals. Follow the current SDS and applicable disposal regulations. Do not discharge into soil, storm drains, or waterways. Sewer disposal requires authorization from the applicable wastewater authority. For Quality Concerns reach out to QC@blueskydefna.com.

SDS Reference: 5747465

FLUID MAINTENANCE PROGRAM & TECHNICAL SUPPORT

At BLUE SKY, we don't just deliver high-purity Marine AUS 40; we help protect SCR system performance and keep marine operations running smoothly. Through our Fluid Maintenance Program, we offer laboratory analysis to verify AUS 40 quality, confirm proper urea concentration, identify contamination, and identify potential fluid-quality issues that could affect SCR performance.

Our technical support team helps evaluate AUS 40 quality and consistency against applicable ISO 18611 specifications, supporting reliable marine exhaust aftertreatment operation.

Partner with BLUE SKY for dependable fluid quality, technical expertise, and confidence in every drop.

- VERIFY AUS 40 QUALITY
- CONFIRM UREA CONCENTRATION
- IDENTIFY CONTAMINATION

Technical Support Backed by Laboratory Analysis

1-855-BluSKYDEF
info@BLUESKYDEFNA.com
www.BLUESKYDEFNA.com