Technical Data Sheet
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MADIN AUS40

Madin AUS40 (Aqueous Urea Solution 40%) is a 40% concentration urea solution specifically designed for the maritime industry. The product acts as a reducing agent in Selective Catalytic Reduction (SCR) systems to treat NO_x emissions, helping marine diesel engines comply with the stringent emission regulations of the IMO (International Maritime Organization)

Perfect Purity: The product is manufactured from ultra-pure urea and EDI demineralized water, completely eliminating impurities that could clog fuel injectors or damage expensive SCR systems.

Strict Quality Control: Each outgoing batch undergoes a rigorous testing process in a modern laboratory, ensuring absolute stability in concentration and chemical composition.

Flexible Supply Capacity: We are prepared to meet all large-volume requirements with optimized transportation solutions:

- **IBC Tank 1000 L:** Convenient for port-side storage.
- **Flexitank 22.000 L (in 20 GP Container):** A cost-effective solution for large-scale orders.

Product Characteristics:

Madin AUS40 is a colorless, non-toxic liquid that is non-irritating to the skin

Component	Chemical formular	Molecular weight	Content %
Pure Urea	$(NH_2)_2CO$	60.06	40.0
EDI Water	H_2O	18	60.0

Usage & Storage Guidelines

Application: Pour directly into the dedicated exhaust treatment fluid tank

Storage Temperature: Maintain between -11°C and 30°C.

Shelf Life: Approximately 12 months when stored under standard conditions

Above 30°C, the solution begins to decompose. While it freezes below 11°C, the product retains its original properties after thawing. To ensure maximum effectiveness, it is recommended not to dilute the solution with water or any other cleaning agents.

Critical Precautions::

- Avoid direct sunlight and high-temperature environments.
- Store in a tightly sealed container.
- Do not dilute with water or mix with any cleaning agents to prevent sensor damage.

Chemical Compositions Pure Urea, EDI Water and other additive…

Packaging Bottle 5L, 10L, 20L; Drum 200L; IBC Tank 1000L; Flexitank 22000L…

Identification Clear, colorless, and homogeneous liquid.

Technical Specifications

Characteristic	Method	Limit	Unit
Ure content	ISO-18611-2	39 - 41	%
Alkalinity as NH3	ISO-18611-2	0.5 max	%
Biuret content	ISO-18611-2	0.8 max	%
Aldehyde as Formldehyde	ISO-18611-2	100.0 max	mg/kg
Insoluble matter	ISO-18611-2	50 max	mg/kg
Phosphate (PO_4^{3-})	ISO-18611-2	1 max	mg/kg
Calcium (as Ca)	ISO-18611-2	1 max	mg/kg
Magnesium (as Mg)	ISO-18611-2	1 max	mg/kg
Sodium (as Na)	ISO-18611-2	1 max	mg/kg
Potassium (as K)	ISO-18611-2	1 max	mg/kg
Iron (as Fe)	ISO-18611-2	1 max	mg/kg
Density at 20 ˚C	ISO 12185	1105-1177	kg/m^3
Refractive index at 20 ˚C	ISO-18611-2	1.3947-1.3982	-

Quality Control The data above represents average values at the time of publication of these specifications. They should not be considered as standardized data. Product data is released specifically for each individual batch.

Storage **Storage**: Store in a cool, dry place. Avoid high-temperature environments and protect from direct sunlight.

Container Handling: Keep containers tightly sealed during storage.

Transportation: Transport the product in an upright position. Ensure the transport vehicle is equipped with a protective roof or cover

Safety
When using this product, refer to the information provided in the Safety Data Sheets (SDS) attached to each specific batch. Additionally, standard precautionary measures for chemical handling should be strictly observed.

Note
The data provided in this publication is based on our current knowledge and experience. Since many factors may affect the production process and product application, these data do not exempt users from conducting their own investigations and tests, nor do they imply any guarantee of quality or suitability for a specific purpose. Any descriptions, drawings, photographs, data, ratios, weights, etc., are subject to change without prior notice and do not affect any existing product quality agreements. It is the responsibility of all users to ensure proprietary rights and comply with all applicable laws and regulations.