

# Product Data Sheet

## NOXy® AD BLUE® (urea solution 32,5%)

### Product description

Ad Blue® is a mixture of technically pure urea and demineralized water. 32.5% urea solution is non-toxic, colorless, odorless (periodically with a slight smell of ammonia), safe for the surroundings and environmentally friendly. It also meets the AUS 32 ISO 22241 standards. NOXy® is used in modern trucks and passenger cars as well as buses equipped with SCR technology. The reduction of nitrogen oxide emissions also applies to the so-called "Off road diesel", is the segment of agricultural tractors, inland and sea vessels and railway locomotives.

Trade name	NOXy® (Ad Blue®)
Chemical name (IUPAC)	Urea Solution 32,5%
Color	Colorless, slightly yellow
Fragrance	characteristic smell
CAS number	57-13-6 (urea)
Summary formula	CH <sub>4</sub> N <sub>2</sub> O (urea)
Registration Number	01-2119463277-33-0025 (urea)

### Toxicological information

The product has no adverse health effects.

Urea, which is a component of NOXy®, does not have mutagenic, carcinogenic and reprotoxic properties. In addition, this substance is not irritating to the skin and does not show any allergenic effect.

Urea is mildly irritating to the eyes.

### Ecological information

The urea component of NOXy® is readily biodegradable and does not bioaccumulate.

Based on the safety assessment performed, urea does not meet the criteria of PBT (persistent, bioaccumulative and toxic substances) and vPvB (very persistent and very bioaccumulative substances).

## **Storage**

Urea solution 32.5% can be stored in non-pressure tanks or containers of any capacity. Store in cool, dry and well-ventilated rooms, in the temperature range:  $(-11.5 \div 30) \text{ }^{\circ}\text{C}$ . Tanks should be protected against sunlight and protected against cooling the product below  $-11.5 \text{ }^{\circ}\text{C}$  (possibility of crystallization). Failure to comply with the above rules may cause changes in the quality of the product.

The maximum temperature of the 32.5% urea solution must not exceed  $35^{\circ}\text{C}$ , because prolonged keeping above  $35^{\circ}\text{C}$  will cause a spontaneous hydrolysis reaction with continuous evolution of ammonia.

### **Additional Recommendations:**

- before loading, the tanks and containers that come into contact with other substances should be rinsed with demineralized water;
- avoid contamination of the product.