

Data Sheet

PRODUCT NAME: AdBlue, urea solution 32,5%

Product description: AdBlue is an aqueous urea solution with a 32.5% (w/w) concentration, with clear or slightly yellowish liquid appearance. This mixture is environmentally friendly, non-toxic and non-combustible.

CAS number: 56-13-6

Chemical formula: CH₄N₂O

REACH registration number: 01-2119463277-33-0025

Toxicological information:

The product has no negative effects on human health.

AdBlue contains urea, a substance that has no mutagenic, carcinogenic or teratogenic effects.

Moreover, the product is not irritating to the skin or eyes and does not cause sensitization.

Prolonged contact with the skin and eyes may cause irritation.

No cases of poisoning or occupational diseases caused by AdBlue have been reported.

Ecological information:

AdBlue contains urea, which is a readily biodegradable substance and has no bioaccumulative potential.

Considering safety assessment studies carried out for urea, it was concluded that the PBT (persistent, bioaccumulative and toxic) and vPvB (very persistent and highly bioaccumulative) classification criteria are not met.

Exposure controls/Personal protection:

The personnel involved in handling the substance must be trained to work according to the SSM guidelines. Prevent direct contact with the skin and eyes.

Recommended personal protective equipment:

Respiratory tract protection: not required if the personnel members are not directly exposed.

Hand and skin protection: use protective gloves

Eye and face protection: If there is a high risk of spraying, use side protection glasses according to EN 166.

Storage: Store the 32.5% urea solution in unpressurised tanks or in packaging with an appropriate volume. Store in dry, cool and properly ventilated areas at temperatures between -11.5 and 30°C. Protect the tanks and containers containing urea from direct exposure to strong sunlight. Storage temperature must be maintained above -11.5°C to prevent urea crystallization. Failure to observe the precautions mentioned above may affect the quality of the product. Prolonged storage at temperatures above 35°C will cause product hydrolysis with the formation of ammonia, which leads to a decrease of the product shelf life.

Transport information:

Transport the 32.5% urea technical solution tank cars, tank wagons or in smaller containers (e.g. drums or cans). Avoid contamination of the product during transport by maintaining a high degree of cleanliness. The product is not classified as hazardous under the RID and ADR regulations.

Regulatory information

Authorizations: The material does not require authorization under Annex VII of Regulation 1907/2006.

Restrictions:

There are no restrictions regarding the production, placement on the market and use of the product according to Annex VIII of Regulation 1907/2006.

Other European regulations:

According to Article 31 of EC Regulation 1907/2006, urea is not classified as hazardous, therefore the issuance of a Safety Data Sheet is not required.

This data sheet complies with Article 32 of the REACH Regulation.

No exposure limit values are set for the European Union territory.

The information contained herein complies with the conditions provided by the manufacturer.