



MATERIAL SAFETY DATA SHEET

PRODUCT : AdBlue

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1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Trade name : AdBlue**Use** : Urea Solution .**Company /Undertaking Identification:**

VOULIS CHEMICALS

2nd NAOUSA- RAILWAY STATION

P.C.59200

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2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical description: Urea solution.

CAS Number : 57-13-6

EC Number : 200-315-5

Symbols : -

Risk – Phrases : It is not a hazardous substance

3. HAZARDS IDENTIFICATION

Identification of the risks:**Inhalation** : Vapors could cause slight irritation to the upper respiratory tract.**Eyes** : Repeated contact may cause irritation.**Ingestion** : Gastro-intestinal disorders.**Skin** : Repeated contact may cause irritation.



4. FIRST AID MEASURES

Doctor's advice : Follow a treatment according to symptoms

Inhalation: Remove casualty to fresh air. Seek medical advice if irritation continues.

Skin: After contact with skin wash immediately with plenty of water. Remove heavily contaminated clothing and launder before reuse.

Eye: Rinse with plenty of water for 15 minutes and seek medical advice.

Ingestion: Rinse mouth with plenty of water .Try to drink milk if available. Do not cause vomit . Seek medical assistance.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Use CO₂, alcohol resistant foam or spray with water.

Unsuitable extinguishing media: None

Special exposure hazards: The product itself is not flammable or combustible. Any contaminated equipment should be washed out with plenty of water. The burning procedure can cause toxics like CO, CO₂, NO_x. Burning residues should be disposed of according to regulations.

Protective equipment for fire-fighters: Wear suitable protective equipment. Wear a breathing device if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wipe out any slipping hazard on the floor to avoid slippery. Avoid contact with eyes and skin .Wear protective equipment.

Environmental precautions: Prevent the product from entering into drains.

Methods for cleaning up: Use absorbent materials (i.e. sand, sawdust etc.) Shovel into suitable disposal containers. Dispose of contaminated material in accordance with the safety regulations.

7. HANDLING AND STORAGE

Handling: Wear suitable protective equipment. When using the product do not eat, drink or smoke. Use according to industrial hygiene rules.

Storage: Use according to industrial hygiene regulations. Store in tightly closed containers, in a dry and well ventilated room.



8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hand protection: Wear plastic gloves.

Eye protection: Use safety goggles.

Skin and body protection: Protecting clothing.

Respiratory protection: In case of improper ventilation use a breathing device

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Liquid
- Color : Clear
- Odour : Slight ammoniacal
- pH : (conc. 10%) 9.8-10
- Boiling point: 100 °C
- Freezing point : -11,5 °C
- Vapor pressure: 6.4 kPa (48 mm Hg@ 40 °C)
- Foaming: None
- Flash point: Not applicable to this product
- Self ignition temperature : Not applicable to this product
- Bulk density (kg/m³) : 1,09 g/cm³@20 °C
- Water solubility: Soluble

10. STABILITY AND CHEMICAL PROPERTIES

- **Stability :** Stable under normal storage conditions
- **Hazardous decomposition products:** Ammonia gas may be released at high temperatures. Burning of the product releases CO, CO₂, NO_x.
- **Conditions to avoid :** Do not expose to temperatures over 50 °C

11. TOXICOLOGICAL INFORMATION

- Skin: No specific data
- Eye: No specific data
- Ingestion : No specific data
- Inhalation : No specific data

12. ECOLOGICAL INFORMATION

- **Biodegradability :** Yes



13. DISPOSAL CONSIDERATIONS

- **Used packaging containers :** Dispose according to local regulations
- **Residues :** Disposal according to local regulations

14. TRANSPORT INFORMATION

- **Land Transport:**
ADR/ADNR/RID class: Not a hazardous substance.
- **Sea Transport:**
IMO / IMDG class: Not a hazardous substance.
- **Air Transport:**
ICAO-TI / IATA-DGR: Not a hazardous substance.

15. REGULATORY INFORMATION

Labeling according to EC directives

- **EC Number:** - (mixture)
- **Symbol:** -
- **R(isk) phrases:** None, not a hazardous product.
- **S(afety) phrases:** S1/2 Keep out of the reach of children.
S24 Avoid contact with skin

Classifications and labeling have been performed according to EU Directives 67/548/EEC and 1999/45/EC

16. OTHER INFORMATION

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.