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**Safety Data Sheet (SDS) AdBlue**Issue Date: 01-Feb-2015 Revision date:01-Feb-2026

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**1. Identification & Supplier**

- **Product Name** : AdBlue (AUS32)
  - **Supplier** : MOOQ CO., LTD.
  - **Address** : 1611-1 Egi,Kui-cho,Mihara-shi,Hiroshima-ken, Japan
  - **Emergency Tel** : +81(0)847-32-8882
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**2. Hazards Identification**

- **Statement of Hazardous/Dangerous Nature** : NON-HAZARDOUS SUBSTANCE, NON-DANGEROUS GOODS
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**3. Composition (Ingredients)**

Ingredient	Formula	Concentration (w/w)
Urea	$(\text{NH}_2)_2\text{CO}$	31.8 - 33.2%
Water	$\text{H}_2\text{O}$	66.8 - 68.2%

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**4. First Aid Measures**

- **Eye Contact:**
  - Immediately flush eyes with plenty of water for at least 15 minutes.
  - Check for and remove contact lenses. Get medical attention if irritation occurs.
- **Skin Contact:**
  - Flush skin with plenty of water and remove contaminated clothing.
  - Clean shoes thoroughly before reuse<sup>13</sup>.
- **Inhalation:**
  - Remove to fresh air. Get medical attention if symptoms appear.
  - Note: Symptoms may be delayed after fire exposure.
- **Ingestion:**
  - Do not induce vomiting unless directed by medical personnel.
  - Get medical attention if symptoms occur.

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## 5. Fire-Fighting Measures

- **Suitable Media** : Foam, dry chemical, or carbon dioxide (CO,CO<sub>2</sub>) spray.
  - **Unsuitable Media** : Do not use water jet.
  - **Hazards** : Container may burst if heated. Combustion produces carbon/nitrogen oxides.
  - **Protection** : Fire-fighters should wear SCBA (Self-Contained Breathing Apparatus).
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## 6. Accidental Release (Spills)

- **Personal** : Evacuate unrelated personnel. Do not touch spilt material.
  - **Environmental** : Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
  - **Small Spill** : Dilute with water and mop up, or absorb with inert dry material.
  - **Large Spill** : Prevent entry into sewers or basements. Contain with non-combustible absorbent (sand, earth).
  - **Disposal** : Use a licensed waste disposal contractor.
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## 7. Handling & Storage

- **Storage Conditions:**
    - Store in a dry, cool, well-ventilated area.
    - Keep away from heat and direct sunlight.
    - Keep containers tightly closed and sealed.
  - **Incompatible** : Avoid prolonged exposure to elevated temperatures.
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## 8. Personal Protection (PPE)

- **Respiratory** : Not normally required with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.
  - **Hand** : Wear protective gloves if prolonged contact is likely. Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application.
  - **Eye** : Safety glasses with side shields.
  - **Skin** : Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk of skin exposure is high then chemical resistant aprons and/or impervious chemical suits and boots will be required.
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## 9. Physical & Chemical Properties

- **Physical State** : Liquid (Clear, Colourless)
  - **Vapour pressure/density** : Not available
  - **pH** : 9.0 – 10.0
  - **Boiling point** : 100°C
  - **Melting/Freezing point** : -11.5°C
  - **Flammability (solid, gas)** : Non flammable.
  - **Lower/Upper explosive limit (LEL/UEL)** : Not available
  - **Flash point** : Not applicable
  - **Decomposition temperature** : 139°C
  - **Density** : 1.087 – 1.093 g/cm<sup>3</sup> at 20°C
  - **Solubility** : Soluble in water
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## 10. Stability and reactivity

- **Stability** : Stable product
  - **Conditions to avoid** : Contamination by metals, dust and organic materials
  - **Incompatibility with various substances/Hazardous Reactions**  
: No hazardous reactions identified.
  - **Hazardous decomposition products**  
: Combustion products may include the following -carbon oxides (CO, CO<sub>2</sub>) nitrogen oxides, ammonia
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## 11. Toxicological information

- **Acute toxicity (oral,dermal,inhalation)** : No significant health hazards identified
- **Skin corrosion/irritation** : No significant health hazards identified (pH10)
- **Serious eye damage/irritation** : No significant health hazards identified (pH10)
- **Respiratory or skin sensitization**: No significant health hazards identified
- **Germ cell mutagenicity/Carcinogenicity/Reproductive toxicity**  
: No significant health hazards identified
- **STOT-single/repeated exposure** : No significant health hazards identified
- **Aspiration hazard** : No significant health hazards identified
- **Chronic toxicity** : Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.
- **Carcinogenic effects** : No component of this product at levels greater than or equal to 0.1% is identified as a carcinogen by ACGIH, the International Agency for Research on Cancer (IARC), the European Commission (EC), or the National Occupational Health and Safety Commission (Australia).
- **Acute oral toxicity LD50 rat** :14,300mg/kg (urea)
- **Acute Dermal Toxicity LD50 Rat** : 8,200mg/kg (urea)

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## 12. Ecological Info

- **Ecotoxicity** : Not classified as environmentally hazardous in accordance with the 'Approved Criteria for Classifying Hazardous Substances' [NOHSC (1008)/2004 as amended and adapted].

- **Persistence/degradability** : Expected to be biodegradable

Log Pow	BCF	Potential
< 1	-	low

- **Mobility** : Soluble in water
  - **Bioaccumulative potential** : This product is not expected to bioaccumulate through food chains in the environment.
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## 13. Disposal considerations

- **Disposal considerations / Waste information** :
    - The generation of waste should be avoided or minimised wherever possible.
    - Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
    - Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
    - Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled.
    - Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way.
    - Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
  - **Special Precautions for Landfill or Incineration** :
    - No additional special precautions identified.
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## 14. Transport Info

- **International transport regulations** : Not classified as dangerous for transport (ADG, IMDG, ICAO/IATA).
  - **Special precautions for user** : No known special precautions required. See Section: "Handling and storage" for additional information.
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## 15. Regulatory information

- **Standard Uniform Schedule of Medicine and Poisons** : Not regulated.
- **Control of Scheduled Carcinogenic Substances Ingredient name** : No Listed Substance

- **REACH Status** : For the REACH status of this product please consult your company contact, as identified in Section 1. All components are listed or exempted.

United States inventory (TSCA 8b)	: All components are listed or exempted.
Australia inventory (AICS)	: All components are listed or exempted.
Canada inventory	: All components are listed or exempted.
China inventory (IECSC)	: All components are listed or exempted.
Japan inventory (ENCS)	: All components are listed or exempted.
Korea inventory (KECI)	: All components are listed or exempted.
Philippines inventory (PICCS)	: All components are listed or exempted.

## 16. Other information

- **Key to abbreviations** :

AMP = Acceptable Maximum Peak

ACGIH = American Conference of Governmental Industrial Hygienists, an agency that promulgates exposure standards.

ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail

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CAS Number = Chemical Abstracts Service Registry Number

HAZCHEM Code = Emergency action code of numbers and letters which gives information to emergency services. Its use is required by the ADG Code for Dangerous Goods in bulk.

ICAO = International Civil Aviation Organization.

IATA = International Air Transport Association, the organization promulgating rules governing shipment of goods by air.

IMDG = International Maritime Organization Rules, rules governing shipment of goods by water.

IP 346 = A chemical screening assay for dermal toxicity. The European Commission has recommended that Method IP 346 be used as the basis for labelling certain lubricant oil base stocks for carcinogenicity. The EU Commission has stipulated that the classification as a carcinogen need not apply if it can be shown that the substance contains less than 3% DMSO extract as measured by IP 346. (See Note L, European Commission Directive 67/548/EEC as amended and adapted.) DMSO is a solvent.

NOHSC = National Occupational Health & Safety Commission, Australia TWA = Time weighted average

STEL = Short term exposure limit

UN Number = United Nations Number, a four digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods.

Based on a document, the information that the mention contents were available at present, the handling, use, processing, safekeeping, transportation, the disposal of product concerned, the processing at the time of the leak were made to go safely. The listed information is not anything guaranteeing and is not a thing identifying quality. In addition, the data of this SDS are things of only about a material appointed here and are not effective about the use by the process that is not appointed and combination use with the materials which are not appointed.