

Material Safety Data Sheet 32.5% AdBlue®



Part 1. Identification

Product Name: AdBlue® / Diesel Exhaust Fluid
Product Use: Used to reduce NOx-emissions through SCR technology
Manufacturer: Blue Gold Industries Pty Ltd
Unit 2 / 36 French Av
Brendale, QLD, 4500
1300 311 844

In case of an emergency, contact the Poison Information centre- 13 11 26

Part 2. Hazards Identification

Hazardous: NON-DANGEROUS GOODS. NON-HAZARD SUBSTANCE

Part 3. Composition/Information on Ingredients

| <u>CHEMICAL ENTITY</u> | <u>CAS #</u> | <u>PROPORTION</u> |
|------------------------|--------------|-------------------|
| Urea: | 57-13-6 | 31.8 – 33.2% |
| Water: | 7732-18-5 | 66.8 – 68.2% |

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Part 4. First Aid Measures

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| <u>Eye Contact:</u> | Flush gently with running water |
| <u>Inhalation:</u> | If overexposure occurs leave exposure area immediately. If irritation persists, seek medical attention |
| <u>Skin Contact:</u> | Remove contaminated clothing and flush affected areas with clean water. If irritation persists, seek medical attention. Launder clothing before reuse |
| <u>Ingestion:</u> | No action is required unless a large quantity is consumed. In this case contact a doctor |
| <u>Advice to Doctor:</u> | Treat symptomatically |

Part 5. Fire Fighting Measures

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| <u>Extinguishing Media:</u> | If fire occurs, there is no restriction on the type of extinguisher that can be used. Foam, dry chemical and spray may be utilised. |
| <u>Special Hazards:</u> | When heated, the product releases ammonia. WARNING when heated to decomposition, toxic fumes of ammonia, nitrogen oxides and cyanuric acid |
| <u>Fire Fighter Advice:</u> | Fire-fighters should wear protective equipment and SCBA (self-contained breathing apparatus) |

Part 6. Accidental Release Measures

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| <u>Personal Precautions:</u> | Wear splash proof goggles and rubber/PVC gloves when using large quantities. Where contamination is likely, wear coveralls. |
| <u>Major Spill:</u> | Use an absorbent based material such as sand or vermiculite to absorb the spill. Move any containers away from the area and prevent any product from sewers or any other confined area. Dispose of via a licensed waste disposal contractor |
| <u>Minor Spill:</u> | Stop leak if without risk. Wash spill with water. Dispose of via a licensed waste disposal contractor |

Part 7. Handling & Storage

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| <u>Safe Handling:</u> | Put on appropriate personal protective equipment. |
| <u>Storage:</u> | Store only in containers that have been thoroughly washed and rinsed and are designed for the use of this product. Store out of direct sunlight in a cool, dry, well ventilated area. Should ideally be stored within a temperature range of 0 and 30°C. |
| <u>Material Compatibility:</u> | Materials to be used in direct contact with AdBlue. Stainless Steel 304, 304L, 316 and 316L. Titanium Ni-Mo-Cr-Mn-Cu-Si-Fe alloys, Hastelloy c/c-276. Polyethylene, free of additives. Polypropylene, free of additives. |

Part 8. Exposure Controls/Personal Protection

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| <u>Control Parameters:</u> | The following materials had no OEL's- "Diesel Exhaust Fluid" See separate SDS for UREA. |
| <u>Occupational Exposure Limits:</u> | None |
| <u>Appropriate engineering controls:</u> | Good general ventilation should be adequate to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits. |

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Part 8. Exposure Controls/Personal Protection

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Hygiene measures:

Wash hands, forearms and face thoroughly after handling chemical products, before eating and using the lavatory and at the end of the task. Ensure that eyewash stations and safety showers are close to the workstation location.

PPE:



Skin and Body:

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 (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

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Part 8. Exposure Controls/Personal Protection

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| <u>Hand Protection:</u> | Wear protective gloves if continued or repeated contact is likely. Chemical-resistant, impervious gloves complying with an approved standard should be worn always when handling chemical products if a risk assessment indicates this is necessary. Protective gloves should be worn under normal conditions of use. Breakthrough time, greater than 60 minutes. |
| <u>Eye & Face protection:</u> | Safety eyewear that complies with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes. |

Part 9. Physical & Chemical Properties

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| <u>Appearance:</u> | Clear/Colourless Liquid |
| <u>Physical State:</u> | Liquid |
| <u>Odour:</u> | Slight Ammoniacal |
| <u>Melting/ Freezing Point:</u> | -11.5°C |
| <u>Boiling Point:</u> | 100°C |
| <u>pH:</u> | 9.5-10% |
| <u>Vapour pressure:</u> | Not Available |
| <u>Vapour Density:</u> | Not Available |
| <u>Density:</u> | 1.09g/cm ³ at 20°C |
| <u>Solubility:</u> | Soluble in Water >100g/l |
| <u>Partition Coefficient:</u> | <1 |

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Part 10. Stability & Reactivity

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| <u>Reactivity:</u> | Follow recommend storage and handling conditions (part 7) and hazardous should not occur. |
| <u>Stability:</u> | This chemical is stable under recommended storage (see part 7) |
| <u>Avoid:</u> | Contamination by any other source including metals, dust and organic materials. |
| <u>Incompatible Materials:</u> | Avoid reaction with oxidising agents. Avoid strong acids, acid chlorides, acid anhydrides and chloroformates. |
| <u>Possibility of Hazardous Decomposition Products:</u> | Under recommended storage and use according to the SDS, hazardous should not occur. |

Part 11. Toxicological Information

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| <u>Eyes:</u> | May cause smarting, pain and redness. No substantial health hazards recognized |
| <u>Skin:</u> | May cause irritation. No substantial health hazards recognized |
| <u>Inhalation:</u> | No substantial health hazards recognized |
| <u>Ingestion:</u> | Large quantity ingested may cause vomiting and diarrhoea |
| <u>Chronic:</u> | Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. |

Part 12. Ecological Information

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| <u>Ecotoxicity:</u> | Not classified as environmentally hazardous |
| <u>Biodegradability:</u> | Biodegradable |
| <u>Mobility:</u> | Product completely soluble in water. |
| <u>Bioaccumulation:</u> | Bioaccumulation not expected |

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Part 13. Disposal Considerations

Waste Information: Recycle whenever possible. Contact manufacturer of product for information on recycling options or regional waste management authority. Waste packaging should be recycled and disposed at an authorised site.

Part 14. Transport Information

Regulations: Not classified as a dangerous good for transport according to the Australian Code for the Transport of Dangerous Goods by Road and Rail and Air Transport (IATA). Transport only in containers or tanks that have been thoroughly washed and rinsed and are designed for the use of this product.

Part 15. Regulatory Information

Standard for the Uniform Scheduling of Drugs and Poisons:

-Not Regulated

Control of Scheduled Carcinogenic Substances:

-Not Available

| National Inventory | Status |
|---------------------|---|
| Australia AICS: | Y |
| EU Classification: | Not classified |
| Safety Regulations: | No known other specific national or regional regulation for this product and it's ingredients |

Part 16. Other Information

This SDS is a hazard communication tool to assist any customer who is dealing with this product. All information provided is accurate to the best of our knowledge. Further information is needed to enable suitable risk assessment, the user should contact Blue Gold Industries Pty. Ltd. Our responsibility for our product is subjected to our standard terms and conditions. No accountability whatsoever can be accepted regarding the handling, processing or use of the product concerned which, in all cases, shall be in accordance with the appropriate regulations.