



Material Safety Data Sheet

UltraGreen Adblue®

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name	UltraGreen Adblue®
Trade Name	Adblue®/Urea Solution/DEF/AUS32
CAS Number	57-13-6
EC Number	200-315-5
Product Use	Reactant in a selective catalytic reduction (SCR) process to reduce NOx-emissions from diesel engine exhaust system
Supplier	Grand Wealthy Holdings Limited 216-218, Texaco Road, Tsuen Wan, N.T., Hong Kong
Emergency	852 2728-7138

2. HAZARDS IDENTIFICATION

Statement of hazardous/dangerous nature: NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance Name	CAS	Proportion
Urea	57-13-6	32.5%
Water	7732-18-5	67.5%

4. FIRST AID MEASURES

Eye Contact	Flush eye with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.
Skin Contact	Remove contaminated clothing. Flush exposed area with water. Get medical attention if irritation occurs.
Inhalation	If inhaled, remove to fresh air. Get medical attention if irritation occurs.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Advice to doctor	Treatment should in general be symptomatic and directed to relieving any effects

General Information: No additional symptoms or effects are anticipated



5. FIRE FIGHTING MEASURES

Extinguishing Media	Use foam, dry powder or water fog to extinguish
Not Suitable	Do not use water jet
Specific Hazards	In case of fire, toxic gases may be formed
Hazardous Decomposition Products	Combustion products may include the following: Carbon monoxide, carbon dioxide, nitrogen oxides, ammonia
Protective Equipment For Firefighters	Use air-supplied respirator, gloves and protective goggles

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Provide adequate ventilation
Environmental Precautions	Contain spillage with sand, earth or other suitable non-combustible material. Avoid discharge into drains or watercourses or onto the ground
Methods for Cleaning Up	Collect and place in suitable waste disposal containers and seal securely. Flush contaminated area with plenty of water
Reference to Other Sections	For personal protection, see Section 8. For waste disposal, see section 13

7. HANDLING AND STORAGE

Handling	Avoid contact with skin and eyes. Put on appropriate personal protective equipment
Storage	Keep container tightly closed and in a cool, well-ventilated place. Use properly labelled and closeable containers. Not suitable for prolonged exposure to elevated temperature

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits	No exposure standard allocated
Biological Limit Values	No biological limit allocated
Exposure Control	
Protective Equipment	Chemical resistant gloves, protective goggles
Engineering Control	Provide adequate ventilation
Eye/Face Protection	Wear safety glasses or full-face shield if splashes are likely to occur
Hand Protection	Wear protective gloves if prolonged or repeated contact is likely'
Skin and Body	Wear suitable protective clothing as protection against splashing or contamination



Hygiene Measures Provide eyewash station. Wash hands at the end of each work shift and before eating, smoking and using the toilet

Respiratory Protection If ventilation is inadequate, suitable respiratory protection must be worn

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear liquid
Color	Colorless
Odor	Slight odor of ammonia
Vapor Pressure	Not available
Vapor Density	Not available
PH	9.8-10
Boiling point	Not available
Melting point	Not available
Density	approx. 1.094 kg/m ³ @ 20°C
Solubility	Soluble in water
Partition Coefficient	<1

10. STABILITY AND REACTIVITY

Stability	The product is stable
Conditions to Avoid	High temperature / Direct sunlight
Materials to Avoid	Strong oxidizing agents.
Possibility of	No hazardous reactions identified
Hazardous Reaction	
Hazardous Decomposition Products	Combustion products may include the following: Carbon monoxide, carbon dioxide, nitrogen oxides, ammonia

11. TOXICOLOGICAL INFORMATION

Eyes	No significant health hazards identified
Skin	No significant health hazards identified
Inhaled	No significant health hazards identified
Ingestion	No significant health hazards identified
Acute Oral Toxicity	Expected to be of low toxicity: LD50 > 5000 mg/kg, Rat
Acute Dermal Toxicity	Expected to be of low toxicity: LD50 > 5000 mg/kg, Rat



Inhaled:	Inhalation of vapors or mists may cause irritation
Choric Toxicity	No information available
Carcinogenic effects	Components are not known to be associated with carcinogenic effects
Mutagenic effects	No known significant effects or critical hazards

12. ECOLOGICAL INFORMATION

Acute Toxicity	Expected to be practically non-toxic: LC50 (Fish, 48h): >10000mg/L
Mobility	Large volumes may penetrate soil and could contaminate
Persistence/Degradability	Readily biodegradable
Bioaccumulation	Not expected to bioaccumulate significantly.
Other Adverse Effects	None known

13. DISPOSAL CONSIDERATIONS

General Information	Waste should be treated as controlled waste. Dispose of waste in accordance with the requirements of local laws and regulations
Disposal methods	Recycle containers whenever possible. This product is not classified as hazardous waste

14. TRANSPORT INFORMATION

General	This material is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID)
Special Precautions	Not applicable
For User	

15. REGULATORY INFORMATION

National Regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716)
EU Legislation	Regulation (EC) No 1272/2008 CLP Regulation (EC) No 1907/2006 REACH
Guidance	Workplace Exposure Limit EH40
Other Regulations	
US 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 (IECSCC)	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

General Information	Only trained personnel should use this material
Issued by	Compliance Department
Revision Date	09/08/2016
Revision	5
Supersedes Date	25/10/2015
Risk Phrases in full	Not classified

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