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Environmental Technologies (Pty) Ltd <small>Reg No : 2010/013605/07</small>			
SUBJECT: PRODUCT SPECIFICATION		Blue Sky AdBlue®	

AdBlue® (Diesel Exhaust Fluid)

® Registered trademark of the Verband der Automobilindustrie (VDA)

Description: A high-purity aqueous urea solution for the application as NOx reducing agent for SCR (Selective Catalytic Reduction) exhaust gas after treatment of vehicles with a diesel engine.

CAS No. 57-13-6

EINECS No. 200-315-5



Physical State: Clear colourless ammoniac liquid

Chemical Properties:	Parameter	Value	Unit
	Urea content	31,8 – 33,2 1)	weight %
	Alkalinity as NH3	< 0,1	weight %
	Biuret	< 0,3	weight %
	Aldehyde	< 5	mg/kg
	Insoluble	< 20	mg/kg
	Phosphate (PO4)	< 0,5	mg/kg
	Calcium	< 0,5	mg/kg
	Iron	< 0,5	mg/kg
	Copper	< 0,2	mg/kg
	Zinc	< 0,2	mg/kg
	Chromium	< 0,2	mg/kg
	Nickel	< 0,2	mg/kg
	Aluminium	< 0,5	mg/kg
	Magnesium	< 0,5	mg/kg
	Sodium	< 0,5	mg/kg
	Potassium	< 0,5	mg/kg
	Identity	2)	
	Density (20°C)	1,0870 – 1,0930	g/cm3
	Refractive Index (20°C)	1,3814 – 1,3843	

1) target value 32,5% by weight

2) identical to the reference sample

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AdBlue® has a small alkaline reaction. The pH of a newly prepared solution is between and inclusive of 9.0 to 9.5. During its life span, a pH value of approximately 10 may be reached. Dissolved urea decomposes ever so slowly at ambient temperature releasing ammonia & Co2. Should the solution be heated, the rate of this reaction will increase. Should temperatures of 70°C be exceeded, biuret will be additionally formed at an escalating rate.

Labelling: The product is labelled as AdBlue® and is in accordance with ISO 22241 “Diesel engines- NOx-reduction agent AUS 32”.

Packaging: Bulk, 1000 litre IBC, 200 litre plastic drum, 20 litre container, 10 litre container and 1.875 litre (1/2 Gallon) Kruse bottle.

Shelf Life: In vented tanks, the shelf life is of 12 months if the average temperature is maintained @ 20°C with the max temperature not exceeding 30°C. Closed containers based on the above limitations only have a shelf life of 9 months.

Handling: The information and advice see Blue Sky - AdBlue® MSDS

Storage & transportation: It is not a dangerous substance for transportation, however, due to its chemical nature, it must be transported and stored separately from Nitrites.

Physical Properties:	AdBlue Properties	Typical Value
	pH	9.5
	Kinetic Viscosity at 25°C	1.28 cSt
	Surface Tension at 25°C	65 mN/m, min
	Heat Capacity	0.82 BTU/lb (°F)
	Vapor Pressure Factor (relative to water)	0.88

Experienced personnel from our Technical Division are available for discussion on all aspects. Recommendations are given in good faith but without warranty. It is the user’s responsibility to determine the suitability for his/her own use.

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