SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product Identifier

Product name	**AdBlue ®**
Product description	Diesel engine exhaust fluid/ SCR fluid – For reduction in emission pollutants
Product type	Liquid

1.2 Identified uses

Distribution of substance	Automobile sector
Formulation & (re)packing of substances and mixtures	Automobile sector
Manufacture of substance	Automobile sector
Functional Fluids	Automobile sector

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer	APAR Industries Limited 18 T.T.C., M.I.D.C. Industrial Area , Thane Belapur Road , Rabale, Navi Mumbai – 400701. India. +91 22 61110444 (Office hours 9.30am to 17.00pm) www.apar.com
e- mail address of person responsible for this SDS	hse@apar.com

1.4 Emergency telephone number

+91 9833811132

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Product definition Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

NON-HAZARDOUS CHEMICAL. NON-DANGEROUS GOODS. According to the WHS Regulations and the ADG Code

2.2 Label elements

Hazard pictograms	Not Applicable
	Not Applicable
	Not applicable
Signal word	Not Applicable
Hazard statements	Not Applicable.
Precautionary statements	Not Applicable
Prevention	Not applicable
Response	
Storage	
Disposal	Not applicable
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicable

2.3 Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII	Not Applicable
Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	

SECTION 3 COMPOSTION/ INFORMATION ON INGREDIENTS

3.2 Mixtures Mixture

Product/Ingredient name	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Type
UREA	CAS NO 57–13- 6	30 - 34	**N.A**	UREA
WATER	CAS 7732-18-5	66- 70	N.A	WATER

Type

[1] Substance classified with a health or environmental hazard
[2] Substance with a workplace exposure limit
[3] Substance does not meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
[4] Substance does not meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
[5] Substance of equivalent concern

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation, blurred vision or swelling occurs and persists, obtain medical advice from a specialist.
Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If casualty is unconscious and: If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects persist or are severe. Maintain an open airway.
Skin contact	Wash with soap and water. Remove contaminated clothing and shoes. Handle with care and dispose of in a safe manner. Seek medical attention if skin irritation, swelling or redness develops and persists.
Ingestion	Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor
Protection of first-aiders	Ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry into confined spaces.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	Eye contact may cause redness and transient pain.
Inhalation	No Known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Ingestion	May be fatal if swallowed and enters airways.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	Due to low viscosity there is a risk of aspiration if the product enters the lungs. Treat symptomatically.
Specific treatments	Always assume that aspiration has occurred.

SECTION 5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	The product contains a substantial proportion of water, therefore there are no restrictions on the type of extinguishing media which may be used. Choice of extinguishing media should take into account surrounding areas.Though the material is non-combustible, evaporation of water from the mixture, caused by the heat of nearby fire, may produce floating layers of combustible substances.In such an event consider: foam. dry chemical powder. carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	If heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	Solid urea decomposes above the melting point(132.7°c to 135°C).Carbon monoxide, carbon dioxide, ammonia,nitrogen may be produced.

5.3 Advice for firefighters

Special precautions for firefighters	Promptly isolate the scene by removing all persons from the vicinity of the incident . No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Ensure adequate ventilation .Use protective clothing
For emergency responders	Ensure adequate ventilation .Use protective clothing

6.2 Environmental precautions

No special measures required

6.3 Methods and material for containment and cleaning up

Minor spills

Clean up all spills immediately.
Avoid breathing vapours and contact with skin and eyes.
Control personal contact with the substance, by using protective equipment.
Contain and absorb spill with sand, earth, inert material or vermiculite.
Wipe up. Place in a suitable, labelled container for waste disposal.

Major Spills

Clear area of personnel.
Alert Fire Brigade and tell them location and nature of hazard.
Control personal contact with the substance, by using protective equipment as required.
Prevent spillage from entering drains or water ways.
Contain spill with sand, earth or vermiculite.
Collect recoverable product into labelled containers for recycling.
Absorb remaining product with sand, earth or vermiculite and place in appropriate containers for disposal.
Wash area and prevent runoff into drains or waterways.
If contamination of drains or waterways occurs, advise emergency services.

6.4 Reference to other sections

See Section 1 for emergency contact information.
See Section 7 for safe handling
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7 HANDLING AND STORAGE

7.1 Advice on general occupational hygiene Storage

Ensure that proper housekeeping measures are in place. Contaminated materials should not be allowed to accumulate in the workplaces and should never be kept inside the pockets. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash hands thoroughly after handling. Change contaminated clothes at the end of working shift. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations.

7.2 Conditions for safe storage, including any incompatibilities

Store separately from oxidising agents.
Recommended materials for containers, or container linings use mild steel, stainless steel Polyethylene or polypropylene container.. Not suitable : Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Compatibility should be checked with the manufacturer.
Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable/combustible or explosive residue or vapors. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Store locked up. Protect from sunlight.

7.3 Specific end use(s)

Recommendations
Not available

Industrial sector specific solutions
Not available

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Product/Ingredient name	Exposure limits values
DIESEL EXHAUST FLUID/UREA SOLUTION	TEEL -1 30 mg/m3

Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
8.2 Exposure Control Appropriate engineering Controls	Mechanical ventilation and local exhaust will reduce exposure via the air. Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse.
Individual protection measures	Recommended: Safety glasses with side shields.
Hygiene measures	4 - 8 hours (breakthrough time): nitrile rubber Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working shift.
Eye/face protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Skin protection	
Hand protection	
Body protection	
Other skin protection	Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Respiratory protection	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.
Environmental exposure controls	

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear
Physical state	Liquid
Color	Water white
Odor	Odor less to mild ammonia
Odor threshold	Not available
pH	9.8 – 10.0
pour point	- 11.5 °C (ASTM D-97)
Flash point	Not applicable
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Vapour pressure	No data availble
Density	1.09@ 20 DEG C
Solubility(ies)	
Solubility (water)	Soluble in water
Partition coefficient	Not available
(n-octanol/water)	No Data
Decomposition temperature	No Data
Auto-ignition temperature	Not available
Viscosity, Kinematic at 40°C (104°F)	Dynamic viscosity 1.4cPs @25 DEG C
Explosive properties	Not Explosive
Oxidising properties	Not available

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	Stable under normal conditions
10.3 Possibility of hazardous Reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	Oxidising agent.
10.5 Incompatible materials	Keep away from extreme heat and oxidizing agents.
10.6 Hazardous decomposition products	Alkali,Acid, oxidizing agent No dangerous decomposition products are formed under normal conditions. Decomposes at a temperature above 132.7°C to 135°C, carbondioxide , carbon monoxide, ammonia & nitrogen gases are formed.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Diesel Exhaust Fluid	14300 mg/kg	Rat		Oral

Irritation/Corrosion	
Skin	No known significant effects or critical hazards.
Eye	No known significant effects or critical hazards.
Respiratory	No known significant effects or critical hazards.
Sensitisation	
Skin	No known significant effects or critical hazards.
Respiratory	No known significant effects or critical hazards.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	The product is not carcinogen.
Reproductive toxicity	Contains no ingredient listed as toxic to reproduction.
Specific target organ toxicity - single exposure	Not classified
Specific target organ toxicity - repeated exposure	Not classified
Aspiration hazard	Not classified
Information on likely routes of exposure	Not available.
Potential acute health effects	
Eye contact	Eye contact may cause redness and transient pain.
Inhalation	Inhalation of vapors at elevated temperatures may cause respiratory irritation.
Skin contact	No known significant effects or critical hazards.
Ingestion	May be fatal if swallowed and enters airways.
Potential chronic health effects	
General	No known significant effects or critical hazards.
Carcinogenicity	The product should not be regarded as a carcinogen.
	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Product/ingredient name	No known significant effects or critical hazards.
Fertility effects	Not available.
Other information	
Specific hazard	

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity	Not expected to be harmful to aquatic organisms.
12.2 Persistence and degradability	Biodegradable.
12.3 Bioaccumulative potential	Bioaccumulation is not expected to occur.
12.4 Mobility in soil	Substantial biodegradation in soil.
12.5 Results of PBT & vPvB Assessment	Not applicable
12.6 Other adverse effects	When low concentrations are discharged correctly into adapted biological sewage treatment plants, interface with the degradation activity of activated sludge is not likely.

SECTION 13 DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal — Remove in accordance with national/local authorizations

Hazardous waste — Not considered as Hazardous

European waste catalogue (EWC)

Waste code	Waste designation
13 03 07*	According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

Packaging

Methods of disposal — The generation of waste should be avoided or minimized wherever possible. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Disposals in accordance with local regulations.

SECTION 14 TRANSPORT INFORMATION

International transport regulations

	ADR/ RID	ADN	IMO/IMDG Classification	ICAO/IATA Classification
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No	No	No	No
Additional information	-	-	-	-

14.6 Special precautions for User — **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex I of MARPOL 73/78 and the IBC Code — **Not applicable**

SECTION 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No information available

15.2 Chemical Safety Assessment — chemical safety assessments for substances in this mixture were not carried out.

SECTION 16 OTHER INFORMATION

Revision comments — Not available.

Legend to abbreviations

ADR	European agreement concerning the international carriage of dangerous good by road.
RID	Regulations agreement concerning the international carriage of dangerous good by rail.
IMDG – CODE	International maritime dangerous goods code.
ICAO	International Civil Aviation Organization.
IATA	International air transport association.
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.
CLP	Classification, Labeling and Packaging Regulation [Regulation (EC) No.1272/2008].
SCBA	Self-Contained Breathing Apparatus.
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC) No. 1907/2006].
LC 50	Median lethal concentration.
LD 50	Median lethal dose.
PBT	Persistent, Bio accumulative and Toxic.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not applicable	Not applicable

Full text of abbreviated H statements	Not applicable .
Full text of classifications [CLP/GHS]	Not applicable
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