

## ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2020/878

SECTION 1: IDENTIFICATION OF THE	SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1 Product identifier	
Product Name	Aqueous Urea Solution (32%) - Diesel Exhaust Fluid (DEF)
	stance or mixture and uses advised against
Identified Use(s)	Industrial use: Chemical has an application for reducing $NO_x$ from exhaust gases of
	diesel engines in motor vehicles equipped with Selective Catalytic Reduction (SCR) systems.
Uses Advised Against	None known.
1.3 Details of the supplier of the safety	
Company Identification	Qatar Fertiliser Company
Address	P.O. Box 50001
	Mesaieed, Qatar
Telephone	(+974) 44228888
Fax	(+974) 44770347
E-mail	aawad@qafco.com.qa
Only representative of a non-Community Company Identification	MUNTAJAT B.V.
Address	Prinses Margrietplantsoen 78-A
	2595 BR, La Haye
	Pays Bas
Telephone	+31(0)70 219 7000
E-mail	REACH@muntajatbv.com
Website	www.muntajatbv.com
<b>1.4 Emergency telephone number</b> National Poisons Information Service	
(Birmingham Centre)	+44 111
For Spill, Leak, Fire, Exposure or	Within USA and Canada: 1-800-424-9300
Accident, Call CHEMTREC Day or Night	
	accepted)
SECTION 2: HAZARDS IDENTIFICATIO	
2.1 Classification of the substance or	
Regulation (EC) No. 1272/2008 (CLP)	Not classified as dangerous for supply/use.
2.2 Label elements	According to Degulation (EC) No. 1272/2008 (CLD)
Product Name	According to Regulation (EC) No. 1272/2008 (CLP) Aqueous Urea Solution (32%) - Diesel Exhaust Fluid (DEF)
Hazard Pictogram(s)	None.
Signal Word(s)	None.
Hazard Statement(s)	None.
Precautionary Statement(s)	None.
2.3 Other hazards	
	None known.
2.4 Additional Information	Neve
	None.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Not applicable.

3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CASI		EC No. / Registrat		%W/W	Hazard	Statement(s)	Hazard Pictogram(s)
Water	7732-	18-5	231-791-	2	66.8 - 68.2	Not clas	ssified	None
Urea	57-13	-	200-315- 01-21194	5 163277-33-XXXX	31.8 - 33.2	Not clas	ssified	None
Ammonia	1336-	21-6	215-647-	6			orr. 1B H314 Acute 1 H400	GHS05 GHS09
HAZARDOUS INGREDI	ENT(S)	CAS No.		Specific Concent	ration Limit		M-factor	ATE
Ammonia		1336-21	-6	STOT SE 3	C>= 5.00 <=	100.00		

Contains no non-classified vPvB substances or substances with a Union workplace exposure limit. For full text of H/P Statements see section 16.

SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures



Inhalation Skin Contact Eye Contact Ingestion <b>4.2 Most important symptoms and eff</b> <b>4.3 Indication of any immediate media</b>	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If symptoms persist, obtain medical attention. Wash skin with soap and water. If symptoms develop, obtain medical attention. Flush eyes with water for at least 15 minutes while holding eyelids open. If symptoms develop, obtain medical attention. Wash out mouth with water. If symptoms persist, obtain medical attention. <b>fects, both acute and delayed</b> None anticipated. Treat symptomatically. <b>cal attention and special treatment needed</b>			
	Unlikely to be required but if necessary, treat symptomatically.			
SECTION 5: FIREFIGHTING MEASURE	S			
5.1 Extinguishing media				
Suitable extinguishing media	As appropriate for surrounding fire. Water spray, dry powder or carbon dioxide. Fight larger fires with water spray or alcohol resistant foam.			
Unsuitable extinguishing media	Water jet spray			
5.2 Special hazards arising from the substance or mixture				
	Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Ammonia			
5.3 Advice for firefighters				
	Fire fighters should wear complete protective clothing including self-contained breathing apparatus.			
SECTION 6: ACCIDENTAL RELEASE M	EASURES			

.1 Personal precautions, protective equipment and emergency procedures			
	Provide adequate ventilation when using the material and follow the principles of good occupational hygiene to control personal exposures. Wear protective		
	equipment to comply with good occupational hygiene practice. Wash hands and exposed skin after use.		
6.2 Environmental precautions			
	Do not allow to enter drains, sewers or watercourses.		
6.3 Methods and material for contain	Itainment and cleaning up		
	Dilute with water. Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Flush spill area with copious amounts		
	of water.		
6.4 Reference to other sections			
	See Also Section 8, 13.		
SECTION 7: HANDLING AND STORAG	E		
7.1 Precautions for safe handling	Conserve huminone measures for the headling of chemicals are explicable. Wear		
	General hygiene measures for the handling of chemicals are applicable. Wear appropriate personal protective equipment, avoid direct contact. Wash hands and		
7.2. Conditions for cofe storage inclu	appropriate personal protective equipment, avoid direct contact. Wash hands and exposed skin after use. Do not eat, drink or smoke at the work place.		
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Storage temperature	appropriate personal protective equipment, avoid direct contact. Wash hands and exposed skin after use. Do not eat, drink or smoke at the work place. ding any incompatibilities Keep container tightly closed, in a cool, well-ventilated place. Keep only in original container. Ambient. Recommended range of temperatures for storing is from -5°C to +25°C.		
Storage temperature Storage life	appropriate personal protective equipment, avoid direct contact. Wash hands and exposed skin after use. Do not eat, drink or smoke at the work place. ding any incompatibilities Keep container tightly closed, in a cool, well-ventilated place. Keep only in original container. Ambient. Recommended range of temperatures for storing is from -5°C to +25°C. Stable under normal conditions.		
Storage temperature	<ul> <li>appropriate personal protective equipment, avoid direct contact. Wash hands and exposed skin after use. Do not eat, drink or smoke at the work place.</li> <li>ding any incompatibilities</li> <li>Keep container tightly closed, in a cool, well-ventilated place. Keep only in original container.</li> <li>Ambient. Recommended range of temperatures for storing is from -5°C to +25°C. Stable under normal conditions.</li> <li>Strong oxidising agents, Acids, Alkalis, Metals (Copper, Brass, Aluminium and Zinc alloys, Carbon Steel, Lead, Magnesium alloys, Nickel, Silver), Acrolein, Mineral</li> </ul>		
Storage temperature Storage life Incompatible materials	<ul> <li>appropriate personal protective equipment, avoid direct contact. Wash hands and exposed skin after use. Do not eat, drink or smoke at the work place.</li> <li>ding any incompatibilities</li> <li>Keep container tightly closed, in a cool, well-ventilated place. Keep only in original container.</li> <li>Ambient. Recommended range of temperatures for storing is from -5°C to +25°C. Stable under normal conditions.</li> <li>Strong oxidising agents, Acids, Alkalis, Metals (Copper, Brass, Aluminium and Zinc</li> </ul>		
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### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

8.1.1 Occupational Exposure Limits

SUBSTANCE CAS	S No. L	_TEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m <sup>3</sup> )	STEL (ppm)	STEL (mg/m <sup>3</sup> )	Note
						None assigned

### Region Source

United Kingdom UK Workplace Exposure Limits EH40/2005 (Fourth edition, published 2020)

#### 8.2 Exposure controls

8.2.1. Appropriate engineering controls Use with ventilation, local exhaust ventilation or breathing protection. A washing



facility/water for eye and skin cleaning purposes should be present.

8.2.2. Persona	I protection equipment Eye Protection	Wear protective eyeglasses for protection against liquid splashes.
	Skin protection	Wear suitable gloves if prolonged skin contact is likely. Breakthrough time of the glove material: refer to the information provided by the gloves' producer.
	Respiratory protection	Wear suitable respiratory protective equipment if exposure to high levels of material is likely.
	Thermal hazards	Not applicable.
	mental Exposure Controls	Do not allow to enter drains, sewers or watercourses.

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1 Information on basic physical and chemical properties

3.1 information on basic physical and chemical properties				
Physical state	Liquid.			
Colour	Colourless.			
Odour	Ammonia odour.			
Melting point/freezing point	~-11-12° C			
Boiling point or initial boiling point and	>100° C			
boiling range				
Flammability	Non-flammable.			
Lower and upper explosion limit	Not available.			
Flash Point	Not available.			
Auto-ignition temperature	Not available.			
Decomposition Temperature	Not available.			
pH	7.5-9.5 @ 20°C			
Kinematic Viscosity	Not available.			
Solubility	Solubility (Water) : Completely miscible with water.			
	Solubility (Other) : Not known.			
Partition coefficient n-octanol/water (log	Log Pow : -1.73 (Urea)			
value)	,			
Vapour pressure	Not available.			
Density and/or relative density	Not available.			
Relative vapour density	Not available.			
Particle characteristics	Not applicable.			
9.2 Other information				
	None.			

SECTION 10: STABILITY AND REACTIVITY				
10.1 Reactivity				
	None anticipated.			
10.2 Chemical Stability				
	Stable under normal conditions.			
10.3 Possibility of hazardous reaction	B Possibility of hazardous reactions			
	No hazardous reactions known if used for its intended purpose. Reacts with sodium hypochlorite or calcium hypochlorite to form explosive nitrogen trichloride.			
10.4 Conditions to avoid				
	Heat and direct sunlight.			
10.5 Incompatible materials				
	Strong oxidising agents, Acids, Alkalis, Metals (Copper, Brass, Aluminium and Zinc alloys, Carbon Steel, Lead, Magnesium alloys, Nickel, Silver), Acrolein, Mineral			



### acids, Dimethyl sulphate, Mercury, Chlorine.

#### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

### SECTION 11: TOXICOLOGICAL INFORMATION

	defined in Regulation (EC) No 1272/2008
Acute toxicity - Ingestion	Calculation method : Not classified.
	Urea: LD50 (oral, rat) mg/kg: 143000
Acute toxicity - Skin Contact	Calculation method : Not classified.
Acute toxicity - Inhalation	Calculation method : Not classified.
Skin corrosion/irritation	Calculation method : Not classified.
Serious eye damage/irritation	Calculation method : Not classified.
Skin sensitization data	Calculation method : Not classified.
	It is not a skin sensitiser.
Respiratory sensitization data	Calculation method : Not classified.
Germ cell mutagenicity	Calculation method : Not classified.
0 ,	There is no evidence of mutagenic potential.
Carcinogenicity	Calculation method : Not classified.
0 7	No evidence of carcinogenicity.
Reproductive toxicity	Calculation method : Not classified.
	No evidence of reproductive effects.
Lactation	Calculation method : Not classified.
STOT - single exposure	Calculation method : Not classified.
STOT - repeated exposure	Calculation method : Not classified.
Aspiration hazard	Calculation method : Not classified.
11.2 Information on other hazards	

Not known.

#### SECTION 12: ECOLOGICAL INFORMATION 12.1 Toxicity Toxicity - Aquatic invertebrates Low toxicity to invertebrates. Toxicity - Fish Low toxicity to fish. Toxicity - Algae Low toxicity to algae. Toxicity - Sediment Compartment Not classified. Toxicity - Terrestrial Compartment Not classified. 12.2 Persistence and degradability No information on this formulation. Urea: Readily biodegradable. 12.3 Bioaccumulative potential No information on this formulation. Urea: Low bioaccumulation potential. 12.4 Mobility in soil Miscible with water. The product is predicted to have high mobility in soil. 12.5 Results of PBT and vPvB assessment Not classified as PBT or vPvB. 12.6 Endocrine disrupting properties None known. 12.7 Other adverse effects Not known. SECTION 13: DISPOSAL CONSIDERATIONS 13.1 Waste treatment methods Dispose of empty containers and wastes safely. 13.2 Additional Information Disposal should be in accordance with local, state or national legislation. SECTION 14: TRANSPORT INFORMATION Not classified as hazardous for transport. 14.1 UN number or ID number Not applicable 14.2 UN proper shipping name Not applicable 14.3 Transport hazard class(es) Not applicable



14.4 Packing group	Natanniashia
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	Not classified as a Marine Pollutant.
	Not known
14.7 Maritime transport in bulk accord	Not known
SECTION 15: REGULATORY INFORMA	TION
15.1 Satety, nealth and environmental European Regulations - Authorisations a Candidate List of Substances of Very High Concern for Authorisation REACH: ANNEX XIV list of substances subject to authorisation REACH: Annex XVII Restrictions on the	regulations/legislation specific for the substance or mixture and/or Restrictions on Use Not listed Not listed Ammonia (1336-21-6)
manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Community Rolling Action Plan (CoRAP) Regulation (EU) N° 2019/1021 of the	
European Parliament and of the Council on persistent organic pollutants Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer	Not listed
Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals <b>National regulations</b>	Not listed
her .2 Chemical Safety Assessment	Not known.
13.2 Chemical Salety Assessment	A REACH chemical safety assessment has not been carried out.
SECTION 16: OTHER INFORMATION	
The following sections contain revisions of	or new statements: 1-16
LEGEND	
Hazard Pictogram(s)	GHS05: GHS: Corrosion GHS09: GHS: Environment
Hazard classification	Skin Corr. 1B : Skin corrosion/irritation, Category 1B Aquatic Acute 1 : Hazardous to the aquatic environment, Acute, Category 1
Hazard Statement(s)	H314: Causes severe skin burns and eye damage. H400: Very toxic to aquatic life.
Acronyms	ATE : Acute Toxicity Estimate CAS : Chemical Abstracts Service CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures EC : European Community LTEL : Long term exposure limit PBT : Persistent Bioaccumulative and Toxic

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Information contained in this publication or as otherwise supplied to Users is believed

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

PBT : Persistent, Bioaccumulative and Toxic

vPvB : very Persistent and very Bioaccumulative

STEL : Short term exposure limit STOT : Specific Target Organ Toxicity

Regular safety training as appropriate

UN : United Nations

Key literature references and sources for Regulation (EC) No. 1272/2008 (CLP)

data used to compile the SDS

**Training Advice** 

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