

#### Page 1/8

Revision: 28.08.2017

# Safety data sheet complying with Regulation 1907/2006/EC (REACH Regulation), EU 2015/830 and Regulation No 1272/2008/EC (CLP)

Version number 1

 SECTION 1: Identification of the substance/mixture and of the company/undertaking

 1.1 Product identifier

 Trade name: CYCLON ADBLUE

 Registration number: Substances contained in the mixture have already (pre)-registered by the suppliers.

1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.Application of the substance / the mixture: Cleaning of waste gases

Reduction of NOx

Printing date 28.08.2017

**1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier:** 

LPC S.A. Megaridos Avenue 124 Aspropyrgos - Attica, 193 00 Tel.: 210 - 809 3900 Fax: 210 - 809 3999 e-mail: technical@cyclon.gr **1.4 Emergency telephone number:** 



European Emergency Tel.: 112

# **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture

Classification according to Regulation EC No 1272/2008 CLP:

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

2.2 Label elements Labelling according to Regulation EC No 1272/2008 CLP: Void Hazard pictograms: Void

Signal word: Void

Hazard statements: Void 2.3 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

(Contd. on page 2)

Printing date 28.08.2017

Version number 1

Revision: 28.08.2017

Trade name: CYCLON ADBLUE

# **SECTION 3: Composition/information on ingredients**

# 3.2 Chemical characterisation: Mixtures

#### **Description:**

Mixture consisting of substances that either not classified or not required to be stated in the Safety Data Sheet according to Reg. (EU) 830/2015.

# Ingredients according Regulation (EU) 830/2015: Void

#### Ingredients

CAS: 57-13-6 Urea EINECS: 200-315-5

25-50%

(Contd. of page 1)

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

#### **General information:**

No special measures required.

Take affected persons out into the fresh air.

After inhalation: Seek medical treatment in case of complaints.

#### After skin contact:

Wash the skin immediately with soap and water.

Remove contaminated clothing.

In case of skin irritation, consult a physician.

#### After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

If skin irritation continues, consult a doctor.

#### After swallowing:

Drink plenty of water and provide fresh air. Call for a doctor immediately.

Seek immediate medical advice.

# **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

# **SECTION 5: Firefighting measures**

# 5.1 Extinguishing media

# Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray.

Use fire extinguishing methods suitable to surrounding conditions.

# 5.2 Special hazards arising from the substance or mixture

Ammonia

Carbon oxides may be generated.

# **5.3 Advice for firefighters**

#### **Protective equipment:**

In case of a large fire or in confined or poorly ventilated spaces wear full fire resistant protective clothing and self contained breathing apparatus (SCBA) with a full space-piece operated in positive pressure mode.

#### Additional information

Keep adjacent containers cool by spraying with water.

(Contd. of page 2)

#### Safety data sheet complying with Regulation 1907/2006/EC (REACH Regulation), EU 2015/830 and Regulation No 1272/2008/EC (CLP)

Printing date 28.08.2017

Version number 1

Revision: 28.08.2017

Trade name: CYCLON ADBLUE

Collect contaminated fire fighting water separately. It must not enter the sewage system.

#### **SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures:** Wear protective equipment. Keep unprotected persons away.

# 6.1.1 For non-emergency personnel

Keep away from ignition sources.

Stop leakage, if safe to do so.

Caution for slippery surfaces.

6.1.2 For emergency responders Wear protective equipment. Keep unprotected persons away.

**6.2 Environmental precautions:** 

Control leakage with a non combustible absorbent material, such us earth or sand.

6.3 Methods and material for containment and cleaning up:

Barricate the leakage area.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust, silica gel).

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

# **SECTION 7: Handling and storage**

7.1 Precautions for safe handling

Observe the general safety regulations when handling chemicals.

Do not eat, drink or smoke during the usage of the product.

**Information about fire - and explosion protection:** Keep away from heat, sparks, open flames and hot surfaces. **7.2 Conditions for safe storage, including any incompatibilities** 

Storage:

Protect from heat and direct sunlight.

Store in cool, dry conditions in well sealed receptacles.

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

7.3 Specific end use(s) No further relevant information available.

# SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

# 8.2 Exposure controls

8.2.1. Appropriate engineering controls Use of local ventilation is advised.

# Personal protective equipment

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:** Not necessary if room is well-ventilated.

Printing date 28.08.2017

Version number 1

Revision: 28.08.2017

Trade name: CYCLON ADBLUE

(Contd. of page 3)

#### **Protection of hands:**



Protective gloves

#### Material of gloves

Rubber gloves.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

# Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Goggles recommended during refilling

Not required under normal conditions of use. **Body protection:** 



Protective work clothing

SECTION 9: Physical and chemic 9.1 Information on basic physical	* *	
General Information		
Appearance:		
Form:	Liquid	
Colour:	Clear	
	Colourless to pale yellow	
Odour:	Characteristic	
Odour threshold:	Not determined	
pH value (100 g/l) at 20°C:	10	
Melting point/freezing point:	-11°C	
Initial boiling point and boiling ra	nge: 103°C	
Flash point:	Not Flammable	
Flammability (solid, gas):	Not applicable	
Auto-ignition temperature:	Not determined	
Decomposition temperature:	Not determined	
Auto-ignition temperature:	Product is not selfigniting.	(Contd. on page 5

Printing date 28.08.2017	Version number 1	Revision: 28.08.201
<b>Frade name:</b> CYCLON ADBLUE		
		(Contd. of page 4
Explosive properties:	Product does not present an explosion haz	zard.
Explosion limits:		
Lower:	Not determined	
Upper:	Not determined	
Oxidising properties	Not considered as oxidising.	
Vapour pressure:	Not determined	
Density at 20°C:	1,087-1,093g/cm <sup>3</sup>	
Relative density	Not determined	
Vapour density	Not determined	
Evaporation rate	Not determined	
Solubility in / Miscibility with		
water:	Fully miscible	
Partition coefficient: n-octanol/	water: Not determined	
Viscosity:		
Dynamic at 25°C:	1,4mPas	
Kinematic:	Not determined	
9.2 Other information	No further relevant information available.	
SECTION 10. Stability and re	a stinity	
SECTION 10: Stability and re 10.1 Reactivity Stable under nor	•	
	l is stable under normal conditions.	
Thermal decomposition / condi		
No decomposition if used and sto		
Stable at environment temperatu	• •	
÷	eactions Reacts with strong oxidising agents.	
	rther relevant information available.	
	o further relevant information available.	
10.6 Hazardous decomposition		
Carbon monoxide and carbon die		
Ammonia		
Nitrogen oxides		
SECTION 11: Toxicological in		

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

57-13-6 Urea

Oral LD50 14500 mg/kg (rat)

Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

(Contd. on page 6)

- GB -

Printing date 28.08.2017

Version number 1

Revision: 28.08.2017

Trade name: CYCLON ADBLUE

#### CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

(Contd. of page 5)

Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data, the classification criteria are not met. Aspiration hazard Based on available data, the classification criteria are not met.

# **SECTION 12: Ecological information**

12.1 Toxicity

Aquatic toxicity:

57-13-6 Urea

EC50 >10000 mg/l (daphnia magna)

LC50-96h >6810 mg/l (Leuciscus Idus)

12.2 Persistence and degradability No further relevant information available.

**12.3 Bioaccumulative potential** No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes: Not known to be hazardous to water.

12.5 Results of PBT and vPvB assessment

**PBT:** Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

# **SECTION 13: Disposal considerations**

13.1 Waste treatment methods Recommendation



Dispose according to National Regulations.

Contact manufacturer for recycling information.

# Uncleaned packaging:

Recommendation:

Disposal must be made according to official regulations.

Packaging may be reused or recycled after cleaning.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information		
14.1 UN-Number	Void	
ADR, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name	Void	
ADR, ADN, IMDG, IATA	Void	
14.3 Transport hazard class(es)	Void	
		(Contd. on page 7

Version number 1	Revision: 28.08.2017
	(Contd. of page 6)
Void	
Void	
Void	
Not applicable.	
Not applicable.	
nex II of	
Not applicable.	
Void	
	Void Void Void Not applicable. Not applicable. <b>nex II of</b> Not applicable.

# **SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** REACH Regulation 1907/2006/EC

Regulation (EU) 2015/830

CLP Regulation 1272/2008/EC

Constituents of the mixture that fall within the scope of REACH Regulation 1907/2006/EC, have been (pre)-registered.

Directive 98/24/EC on the protection of health and safety of workers from the risks related to chemicals agents at work.

#### Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed.

National regulations:

Other regulations, limitations and prohibitive regulations

Substances of very high concern (SVHC) according to REACH, Article 57

It doesn't contain substances of very high concern (SVHC).

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

# **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### **Training hints**

Suitable training on safety in handling, storing and converting the product should be given to the employees based on all the existing information.

# **Department issuing SDS:**



SUSTCHEM Engineering Ltd REACH & Chemical Services Department 144, 3rd Septemvriou, GR 112 51, Athens, Greece Tel.: +30 210 8252510 Fax: +30 210 8252575 E-mail: info@suschem.gr Website: www.sustchem.gr

#### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

(Contd. on page 8)

Printing date 28.08.2017

Version number 1

Revision: 28.08.2017

Trade name: CYCLON ADBLUE

(Contd. of page 7) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative