

Date of issue/ Date of revision:	19.11.2018
Date of previous issue:	27.07.2017
Version:	4.0

	Product identifier		
	Product name:	Air1	
	Product code:	PA516L	
	Product type:	Liquid	
2	Relevant identified uses of the substance or n	nixture and uses advised against	
	Notes:	The safety data sheet and any attached exposure scenario are compiled in accordance with the REACH regulation and in no way reflects the specification, purity or quality standards required for specific applications and use of the product identified in section 1.1.	
	Identified uses	Industrial distribution.	
		Industrial Use for flue gas NOx and SOx reduction.	
		Industrial USE as a laboratory/research chemical	
		Professional USE as reactive agent/processing aid and for general chemical applications.	
		Professional USE as a laboratory/research chemical Consumer USE as part of specialist products.	
	Uses advised against:	None identified.	

	Manufacturer/Supplier	Emissco Ltd
		New Haden Road
		Brookhouses Industrial Estate
		Cheadle
		Staffordshire
		ST10 1UF
	Telephone number:	+44 (0) 1538 752561 (Available 9am - 5pm)
	Email (For SDSs)	info@emissco.co.uk
1.4	Emergency telephone number	
	National advisory body/Poison Center:	Not available.
	Supplier telephone number:	National Chemical Emergency Centre +44 (0) 1865 407333
	Hours of operation:	24h



SECTION 2: HAZARDS IDENTIFICATION

2.1	Classification of the substance or mixture.		
	Product definition:	Mixture	
	Classification according to Regulation (EC) No. 1272/20	08 [CLP/GHS]	
	Classification:	Not classified.	
	The product is not classified as hazardous according to	Regulation (EC) 1272/2008 as amended.	
2.2	Label elements		
	Signal word:	No signal word.	
	Hazard statements:	Not applicable.	
	Precautionary statements		
	General:	Not applicable.	
	EU Regulation (EC) No. 1907/2006 (REACH) Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:	Not applicable.	
	Special packaging requirements		
	Containers to be fitted with child-resistant fastenings:	Not applicable.	
	Tactile warning of danger:	Not applicable.	
2.3	Other hazards		
	Other hazards which do not result in classification:	None.	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures:

Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8. Remarks: Aqueous solution



SECTION 4: FIRST AID MEASURES

4.1	Description of first aid measures		
	Eye contact:	Rinse with plenty of running water. Check for and remove any contact lenses. Get medical attention if irritation occurs.	
	Inhalation:	Avoid inhalation of vapor, spray or mist. If inhaled, remove to fresh air. Get medical attention if you feel unwell.	
	Skin contact:	Wash with soap and water. Get medical attention if irritation develops.	
	Ingestion:	Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Get medical attention if adverse health effects persist or are severe.	
	Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training.	

4.2 Most important symptoms and effects, both acute and delayed Over-exposure signs/symptoms

Eye contact:	No specific data.
Inhalation:	No specific data.
Skin contact:	No specific data.
Ingestion:	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed Notes to physician: Treat symptomatically

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments:

No specific treatment.



SECTION 5: FIREFIGHTING MEASURES

5.1	Extinguishing media	
	Suitable extinguishing media:	Use an extinguishing agent suitable for the surrounding fire.
	Unsuitable extinguishing media:	None identified.
5.2	Special hazards arising from the substance or mixture	
	Hazards from the substance or mixture:	In a fire or if heated, a pressure increase will occur and the container may burst.
	Hazardous combustion products:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides ammonia Avoid breathing dusts, vapors or fumes from burning materials. In case of inhalation of decomposition products in a fire, symptoms may be delayed.
5.3	Advice for firefighters	
	Special protective actions for fire-fighters:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. 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.
	Additional information:	None.



SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. For emergency responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". 6.2 **Environmental precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). 6.3 Methods and materials for containment and cleaning up Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Large spill: Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Reference to other sections: See Section 1 for emergency contact information. 6.4 See Section 8 for information on appropriate personal protective equipment. See Section 13 for

additional waste treatment information.



SECTION 7: HANDLING AND STORAGE

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).

7.1	Precautions for safe handling		
	Protective measures:	Put on appropriate personal protective equipment (see Section 8).	
	Advice on general occupational hygiene:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.	

7.2 Conditions for safe storage, including any incompatibilities **Recommendations:**

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Bund storage facilities to prevent soil and water pollution in the event of spillage.

7.3 Specific end use(s) **Recommendations:**

Not available.



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters Occupational exposure limits Remark: Recommended monitoring procedures:

No exposure limit value known.

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.

No DNELs/DMELs available. No PNECs available.

Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Individual protection measures

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. Wash contaminated clothing before reusing. A washing facility or water for eye and skin cleaning purposes should be present.

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

DNELs/DMELs PNECs

8.2 Exposure controls Appropriate engineering controls:

Hygiene measures:

Eye/face protection:



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

Skin protection Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. For general applications, we recommend gloves with a thickness typically greater than 0.35 mm. It should be emphasized that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material.
Body protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved.
Other skin 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.
Respiratory protection:	In case of inadequate ventilation wear respiratory protection.
Environmental exposure controls:	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.



9.2

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties Appearance

Physical state:	Liquid
Color:	Colorless.
Odor:	Slight, ammoniacal
Odor threshold:	Not determined.
pH:	9 - 10
Melting point/freezing point:	-10.5°C
Initial boiling point and boiling range:	100 °C
Flash point:	Not applicable
Evaporation rate:	Not determined
Flammability (solid, gas):	Non-flammable.
Upper/lower flammability or explosive limits:	Lower: Not determined
	Upper: Not determined
Vapor pressure:	Not determined
Vapor density:	Not determined
Relative density:	Not determined
Bulk density:	Not determined
Density:	1.088 g/cm ³
Partition coefficient: n-octanol/water:	Not determined
Auto-ignition temperature:	Not determined
Viscosity:	Dynamic: 1.4 mPa.s @ 20 °C
Kinematic:	Not determined.
Explosive properties:	Non-explosive.
Oxidizing properties:	None
Other information	
Water solubility:	> 100 g/l
No additional information.	



SECTION 10: STABILITY AND REACTIVITY No specific test data related to reactivity available for 10.1 Reactivity: this product or its ingredients. 10.2 Chemical stability: The product is stable. 10.3 Possibility of hazardous reactions: Under normal conditions of storage and use, hazardous reactions will not occur. 10.4 Conditions to avoid: Avoid contamination by any source including metals, dust and organic materials. Urea reacts with calcium hypochlorite or sodium 10.5 Incompatible materials: hypochlorite to form the explosive nitrogen trichloride. **Remark:** Reactive or incompatible with the following materials: Oxidizing agents acids alkalis Nitrites and nitrates 10.6 Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.



No known significant effects or critical hazards.

Exposure to decomposition products may cause a health hazard. Serious effects may be delayed

No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards.

Not available.

following exposure.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
Conclusion/Summary:

Irritation/Corrosion Conclusion/Summary Skin: Eyes: Respiratory:

Sensitization Conclusion/Summary Skin: Respiratory:

Mutagenicity Conclusion/Summary:

Carcinogenicity Conclusion/Summary:

Reproductive toxicity Conclusion/Summary: Information on the likely routes of exposure:

Potential acute health effects Inhalation:

Potential immediate effects:

Potential delayed effects:

Ingestion: Skin contact: Eye contact:

Symptoms related to the physical, chemical and toxicological characteristicsInhalation:No specific data.Ingestion:No specific data.Skin contact:No specific data.Eye contact:No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposureShort term exposurePotential immediate effects:No known significant effects or critical hazards.Potential delayed effects:No known significant effects or critical hazards.Long term exposureVolume

No known significant effects or critical hazards. No known significant effects or critical hazards.



SECTION 11: TOXICOLOGICAL INFORMATION

Potential chronic health effects	
Carcinogenicity:	No known significant effects or critical hazards.
Mutagenicity:	No known significant effects or critical hazards.
Fertility effects:	No known significant effects or critical hazards.
Developmental effects:	No known significant effects or critical hazards.
Effects on or via lactation:	No known significant effects or critical hazards.
Other effects:	No known significant effects or critical hazards.
Toxicokinetics	
Absorption:	Rapidly absorbed.
Distribution:	Not metabolized within liver tissues before entering the systemic circulation.
Metabolism:	Metabolite is not known to be toxic.
Elimination:	The chemical and its metabolites are fully excreted and do not accumulate within the body.
Other information:	Not available.

SECTION 12: ECOLOGICAL INFORMATION

- 12.1 Toxicity Conclusion/Summary:
- 12.2 Persistence and degradability Conclusion/Summary:
- 12.3 Bioaccumulative potential Conclusion/Summary:
- 12.4 Mobility in soil Soil/water partition coefficient (KOC): Mobility:
- 12.5 Results of PBT and vPvB assessment PBT: vPvB:
- 12.6 Other adverse effects:

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Not available. This product may move with surface or groundwater flows because its water solubility is: high

Not applicable. Not applicable.

No known significant effects or critical hazards.



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:	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
	Hazardous waste:	Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.
	Other information:	Not available.

European waste catalogue (EWC)

Waste code	Waste designation
06 10 99	Wastes not otherwise specified

Packaging Methods of disposal:

Special precautions:

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.



SECTION 14: TRANSPORT INFORMATION

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14.4 Packing groupNot applicable.		
14.5 Environmental hazardsNo.		
Additional information		
Marine pollutant: No.		
14.6 Special precautions for user: Transport within user's premises: Ensure persons transporting the product know the event of an accident or spillage.		
Transport in bulk according to Annex II of MARPOL and the IBC Code		
Proper shipping name: Urea solution		
Ship type: 3		
Pollution category: Z		
14.8 IMSBC: Not applicable.		



SECTION 15: REGULATORY INFORMATION

15.1	afety, health and environmental regulations/legislation specific for the substance or mixture	
	EU Regulation (EC) No. 1907/2006 (REACH)	
	Annex XIV - List of substances subject to authorization	
Annex XIV: None of the components are listed.	Annex XIV: None of the components are listed.	
	Annex XIV: None of the components are listed.	

Substances of very high concern:

None of the components are listed.

EU Regulation (EC) No. 1907/2006 (REACH) Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles:

Other EU regulations Ozone depleting substances (1005/2009/EU) None of the components are listed.

Prior Informed Consent (PIC) (649/2012/EU)

Seveso Directive

Other regulations :

National regulations Biocidal products regulation: Notes:

15.2 Chemical Safety Assessment:

Not applicable.

None of the components are listed.

This product is not controlled under the Seveso Directive.

This product is not subject to Regulation (EU) 98/2013, but all suspicious transactions, disappearances and thefts should be reported to the relevant authority.

Not applicable.

To our knowledge no other country or state specific regulations are applicable.

This product contains substances for which Chemical Safety Assessments are still required.



SECTION 16: OTHER INFORMATION

Abbreviations and acronyms:	ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008 DNEL = Derived No Effect Level DMEL = Derived Minimal Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number PBT = Persistent, Bioaccumulative and Toxic vPvB = Very Persistent and Very Bioaccumulative bw = Body weight
Key data sources:	EU REACH IUCLID5 CSR. National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical Substances. Sphera Solutions Inc., 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada. Regulation (EC) No 1272/2008 Annex VI.

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

Classification	Justification	
Not classified	Calculation method	
Full text of abbreviated H statements:	Not applicable.	
Full text of classifications [CLP/GHS]:	Not applicable	
Revision comments: Section 15. Regulatory information		
Date of printing:	03.12.2018	
Date of issue/ Date of revision:	19.11.2018	
Date of previous issue:	27.07.2017	
Version:	4.0	
Prepared by:	Emissco Ltd	

Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information provided in this Safety Data Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein, since all materials may represent unknown hazards and should be used with caution. Final determination of the suitability of any material is the sole responsibility of the user.