

Product name: **Blue Air****1. COMPANY DETAILS AND PRODUCT IDENTIFICATION**

COMPANY: Hi-Tec Oil Traders Pty Ltd. (ABN 28 053 83 362)
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5 Tarlington Place, Smithfield NSW 2164

TELEPHONE NUMBER: 1300 796 009

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EMERGENCY TELEPHONE NUMBER: 1300 796 009

PRODUCT NAME: Blue Air

OTHER NAMES: None

MANUFACTURER'S PRODUCT CODE: H18-3015

USE: Water-based diesel engine exhaust gas treatment fluid

ADDITIONAL INFORMATION: Refer to Product Information Sheet for additional information

OTHER INFORMATION: Visit our website <https://hi-tecoils.com.au/>
Email: hitecoils@hi-tecoils.com.au

2. HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION: NON - HAZARDOUS
NON-DANGEROUS GOODS
Hazard classification according to criteria of NOHSC and GHS.
Dangerous goods classification according to Australian Dangerous Goods Code

SIGNAL WORD (S): None

IRRITANCY OF PRODUCT: Not classified as an irritant.

SENSITISATION OF PRODUCT: Not Known to be sensitiser.

TERATOGENICITY: No teratogenic effects are known.

OTHER INFORMATION: Used fluids may contain harmful impurities that have accumulated during use. The concentration of such impurities will depend on use and they may present risks to health and environment on disposal. All used fluids should be handled with caution and skin contact avoided as far as possible.

3. IDENTIFICATION / COMPOSITION OF INGREDIENTS

CHEMICAL CHARACTERISTICS:	Liquid	
INGREDIENTS:-		
CHEMICAL ENTITY:	CAS No.	PROPORTION
Urea	57-13-6	30 - 40%
Water	7732-18-15	>60%

4. FIRST AID MEASURES

HEALTH EFFECTS

SWALLOWED:	If a large quantity is ingested seek immediate medical attention. Give water to drink. DO NOT induce vomiting. If vomiting occurs get immediate medical attention due to aspiration into lungs risk.
EYE:	Immediately irrigate with copious amounts of water for at least 15 minutes. Eyelids to be held open. Obtain medical attention if irritation occurs. In all cases of eye contamination, it is a sensible precaution to seek medical advice.
SKIN:	Remove contaminated clothing and wash your skin thoroughly with plenty of soap and water. Obtain medical attention if irritation occurs. High-pressure injection through the skin requires URGENT medical attention for possible incision, irrigation, and/or debridement.
INHALED:	Remove the victim from exposure to fresh air – avoid becoming a casualty. Allow the patient to assume the most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if the effects persist. If breathing is labored and the patient is cyanotic (blue), ensure airways are clear and have a qualified person give oxygen through a face mask. If breathing has stopped apply artificial respiration at once. In the event of cardiac arrest, apply external cardiac massage and seek urgent medical aid.
FIRST AID FACILITIES:	Normal washroom facilities are generally suitable. Ensure an eye wash station and safety shower is available and ready for use.
ADVICE TO DOCTOR:	Treat symptomatically.
OTHER INFORMATION:	Keep water and mild soap near work site.

5. FIRE FIGHTING MEASURES

HAZARDS OF USE/STORAGE:	Though the material is non-combustible, evaporation of water from the mixture caused by the heat of a nearby fire may produce floating layers of combustible substances.
HAZARDS FROM COMBUSTION PRODUCTS:	Combustion products may include oxides of carbon, nitrogen, ammonia, and a complex mixture of airborne unidentified organic and inorganic solid and liquid particles.
FIRE-FIGHTING RECOMMENDATIONS:	If safe to do so, remove containers from the path of fire. Keep storage tanks, pipelines, containers, fire-exposed surfaces, etc. cool with water spray. Avoid spreading liquid and fire by water flooding.
PRECAUTION:	
SUITABLE 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. Options include water spray (fog), foam, dry chemicals, and carbon dioxide. The choice of extinguishing media should be taken into account in surrounding areas.
PROTECTIVE MEASURES:	Firefighters should wear self-contained breathing apparatuses in positive pressure mode if at risk of exposure to products of combustion
REACTIVITY:	May react with strong oxidizing agents

6. ACCIDENTAL RELEASE MEASURES

SPILLS & DISPOSAL:	Slippery when spilled. Avoid accidents, and clean up immediately. CLEAN-UP PROCEDURE - SMALL SPILLS (20L or less): Absorb or contain liquid with sand, earth, or spill control material. Shovel up using non-sparking tools and place in a sound-labeled sealable container for subsequent safe disposal. Place leaking containers in a sound-labelled drum. Scrub contaminated surfaces with a detergent solution. Retain washings as contaminated waste. CLEAN-UP PROCEDURES - LARGE SPILLS (Greater than 20L): Transfer to a sound-labeled, sealable container for product recovery or safe disposal. Treat residues as small spills. PERSONAL PRECAUTIONS: Extinguish naked flames. Remove ignition sources. No smoking. Avoid sparks. Take precautionary measures against static discharges. Avoid contact with skin, eyes, and clothing. Evacuate the area of non-essential personnel. Shut off leaks, if possible without personal risk. Do not breathe vapors. Ventilate the contaminated area thoroughly. Dispose of according to local regulations.
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6. ACCIDENTAL RELEASE MEASURES (CONT)

OTHER INFORMATION:

PROCEDURES IN CASES OF LEAKAGE OR BREAKAGE: Stop the source of the leak or release and contain spill if possible. Ventilate area. Use respirator and protective clothing outlined in this MSDS. Cover spill with inert absorbent earth. Use a stiff brush to mix thoroughly. Sweep up and place in a sound labelled disposable container. Scrub contaminated area with detergent and water using a stiff brush. Pick up liquid with additional absorbent material and place in a sound labelled disposable container. Prevent contamination of groundwater or surface water.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

When handling products in drums, safety footwear should be worn and proper handling equipment should be used. Prevent spillages. Ensure the appropriate personal protective equipment is used when handling this product. Ensure a high level of personal hygiene is maintained when using this product. That is; always wash hands before eating, drinking smoking, or using the toilet.

SAFE STORAGE CONDITIONS:

Keep containers closed at all times. Store in a cool place out of direct sunlight. Store away from oxidizing agents. Check containers regularly for leaks.

CORROSIVENESS:

Not corrosive.

STORAGE REGULATIONS:

Store in a well-ventilated place away from ignition sources, oxidizing agents, foodstuffs and clothing.
Keep containers closed when not in use.
Refer to AS 1940 – The Storage and Handling of Flammable Liquids, and NOHSC: 1015 – National Standard for Storage and Handling of Workplace Dangerous Goods for further information.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

NATIONAL EXPOSURE STANDARDS:

No exposure standard has been established for this product. NOHSC Exposure Standard: Oil mists – time weighted average (TWA) 5 mg/m³ is recommended.

OTHER EXPOSURE INFORMATION:

Exposure Standard means the average concentration of a particular substance in the worker's breathing zone, exposure to which, according to current knowledge, should not cause adverse health effects nor cause undue discomfort to nearly all workers. It can be of three forms; time-weighted average (TWA), peak limitation, or short term exposure limit (STEL).

ENGINEERING CONTROLS:

Maintain concentration below recommended exposure limit. Special ventilation is not normally required. However, in the operation of certain equipment or at elevated temperatures mists or vapour may be generated and localised exhaust ventilation should be provided to maintain airborne concentration levels below the exposure standard or the Manufacturer's recommended exposure standard.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION (CONT)

RESPIRATORY PROTECTION:	A respirator is not normally required. Airborne concentrations should be kept at the lowest level possible. If vapors, mists, or dust are generated and the recommended exposure limit for the product is exceeded, use an appropriate AS/NZS 1715/1716 approved half-face filter respirator suitable for organic vapors or air-supplied respirator worn. Air-supplied respirators should always be worn when the airborne concentration of the contaminant or the oxygen content of the air is unknown
EYE PROTECTION:	Safety glasses, goggles or face shield as appropriate.
HAND PROTECTION:	Wear gloves of impervious materials such as PVC, neoprene, or nitrile gloves.
FOOTWEAR:	Enclosed footwear.
BODY PROTECTION:	Overalls or similar protective apparel.
HYGEINE MEASURES:	Always wash hands before eating, drinking, smoking or using the toilet. If contamination occurs, change clothing. Launder contaminated clothing before reuse. Discard internally contaminated gloves.
SPECIAL PROTECTIVE MEASURES:	The product will not burn unless preheated. Isolate from sources of heat, naked flames or sparks..

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM:	Liquid
APPEARANCE:	Clear and bright liquid.
COLOUR:	Clear to hazy green
ODOUR:	Slightly ammoniacal
TASTE:	Not available
CRYSTALLISATION POINT:	-11.5 oC
BOILING POINT:	100oC
DECOMPOSITION TEMPERATURE:	> 100oC
DENSITY @ 20oC (kg/L):	1.09 typical

9. PHYSICAL AND CHEMICAL PROPERTIES (CONT)

FLASH POINT (ATSM D-93) Closed Cup:	Not applicable
FLAMMABILITY LIMITS - LOWER	Not applicable
FLAMMABILITY LIMITS - UPPER:	Not applicable
FLAMMABILITY:	Not combustible
SOLUBILITY IN WATER:	Miscible
SOLUBILITY IN ORGANIC SOLVENTS:	Not available
VAPOUR DENSITY (Air =1)	Not available
VAPOUR PRESSURE (kPA):	6.4 @ 40°C
VISCOSITY @ 40°C (mm ² /s)	Not available
pH (as supplied)	8-10
EVAPORATION RATE:	Not available
AUTO-IGNITION TEMPERATURE:	Not available
EXPLOSION PROPERTIES:	Not considered an explosion risk under normal conditions of use
OTHER INFORMATION:	The physical data and other properties do not constitute a specification
PARTITION COEFFICIENT n-OCTANE/WATER:	Not available
OXIDISING PROPERTIES:	Not available
MOLECULAR WEIGHT:	Not available
SURFACE TENSION (dyne/cm OR mN/m)	Not available
VOLATILE COMPONENT (%vol):	Not available
GAS GROUP:	Not available
VOC (g/L)	Not available

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY	Stable under normal conditions of use.
CONDITIONS TO AVOID:	Heat, direct sunlight, open flames, or other sources of ignition.
INCOMPATIBLE MATERIALS	Oxidizing agents, acids and salts, calcium or sodium hypochlorite
HAZARDOUS REACTIONS	Highly reactive with oxidizing agents, acids and alkalis. Urea reacts with calcium or sodium hypochlorite to form the explosive nitrogen trichloride.
HAZARDOUS POLYMERIZATION	Will not occur

11. TOXICOLOGICAL INFORMATION

INHALATION:	Not normally a hazard due to the non-volatile nature of the product. Inhalation of vapors or mists may cause respiratory irritation
INGESTION:	Ingestion of large quantities may irritate the digestive tract, nausea, vomiting, diarrhea, headache, and confusion.
SKIN CONTACT:	The material may cause skin irritation after prolonged or repeated exposure and may produce on-contact skin redness, swelling, the production of vesicles, scaling, and thickening of the skin.
EYE:	May produce eye irritation and discomfort
CHRONIC:	Long-term exposure to the product is not thought to produce chronic effects adverse to the health (as classified by EC Directives using animal models); nevertheless, exposure by all routes should be minimized. As with any chemical product, contact with unprotected bare skin, inhalation of vapor, mist, or dust in the workplace atmosphere; or ingestion in any form, should be avoided by observing good occupational work practice.
TOXICITY:	(Rat) LD50: 8471 mg/kg
ACUTE TOXICITY:	Data not available to make classification.
ACUTE INHALATION:	Not considered to be an inhalation hazard under normal conditions of use
MUTAGENICITY:	Data not available to make classification.
CARCINOGENICITY:	Data not available to make classification.
TERATOGENICITY:	Data not available to make classification.

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: DO NOT discharge into sewer or waterways.

ECOTOXICITY:

SUBSTRATE	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE	SOURCE
Blue Air	Not Available	Not Available	Not Available	Not Available	Not Available
Urea	EC50	96	Fish	5mg/L	2
Urea	EC50	48	Crustacea	3910mg/L	2
Urea	BCF	24	Algae or other	0.05mg/L	2
Urea	EC100	24	Crustacea	>10,000mg/L	1
Urea	NOEC	96	Crustacea	1000mg/L	2
Water	Not Available	Not Available	Not available	Not available	Not available

LEGEND:

Extracted from I.IUCLID Toxicity Data: 2. US EPA, Ecitox database - Aquatic toxicity Data

ATMOSPHERIC FATE

Urea will not evaporate from water to the atmosphere and is expected to be readily degraded by reactions with photochemically produced hydroxyl radicals; half-life is expected to be less than 1 day. Degradation of urea to ammonia causes NH₃-emissions to the air

TERRESTRIAL FATE:

Urea will hydrolyse into ammonium in a matter of days to several weeks. Urea is relatively leachable from the soil into surface water and groundwater especially if the soil surface is saturated with water.

AQUATIC FATE:

Urea is very soluble in water and may rapidly biodegrade to a moderate extent. Urea is not expected to evaporate significantly. Urea can be leached relatively easily into the surface water and the groundwater. Degradation products (e.g. nitrate, nitrite and ammonium) can be measured after urea has undergone biodegradation.

ECOTOXICITY:

Urea is not likely to undergo bioaccumulation and generally has low acute ecotoxicity to organisms. The degradation product of urea, ammonia, is known to be toxic to all vertebrates; however, in neutral and acidic conditions, ammonia exists in the form of the ammonium ion. Urea may directly influence eutrophication in the environment and there is a pollution risk to groundwater.

PERSISTENCE AND DEGRADABILITY:

Urea persistence: Water/soil - Low, Air - Low
 Water persistence Air -LOW

BIOACCUMULATICE POTENTIAL:

Urea Bioaccumulation - low (BCF = 10)
 Water Bioaccumulation - Low (LogKOW = -1.38)

MOBILITY IN SOIL:

Urea Mobility - Low(KOC = 14.3)

13. DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS

Dispose of according to federal, E.P.A., and state regulations
 Recycle wherever possible.
 Consult the manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified.
 Dispose of by Burial in a licensed land-fill or incineration in a licensed apparatus (after admixture with suitable combustible material)
 Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

14. TRANSPORT INFORMATION

ROAD & RAIL TRANSPORT: ADG REQUIREMENT

Not classified as a Dangerous Good according to the Australian Code for the Transport of Dangerous Goods by Road and Rail.

MARITIME TRANSPORT: IMO/IMDG REQUIREMENT

Not classified as a Dangerous Good according to the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

AIR TRANSPORT: ICAO/IATA REQUIREMENT

Not classified as a Dangerous Good according to the criteria of the International Maritime Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

15. REGULATORY INFORMATION

POISON SCHEDULE:

Not scheduled.

PACKING & LABELLING:

No special packaging or labelling requirements.

AUSTRALIAN INVENTORY STATUS:

All components are listed or exempted.

16. OTHER INFORMATION

CONTACT PERSON/POINT: General Manager 1300 796 009

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.

LITERATURE REFERENCES:

- * NOHSC: 2011 National Code of Practice for the preparation of Material Safety Data Sheets.
- * Safe Work Australia: 2016 Preparation of Safety Data Sheets for Hazardous Chemicals
- * NOHSC: 1008 Approved Criteria for Classifying Hazardous Substances.
- * NOHSC: 10005 List of Designated Hazardous Substances.
- * NOHSC: 1005 Control of Workplace Hazardous Substances, National Code of Practice.
- * NOHSC: 2007 Control of Workplace Hazardous Substances, National Code of Practice.
- * NOHSC: 1003 Exposure Standards for Atmospheric Contaminants in the Occupational Environment, National Exposure Standards.
- * NOHSC: 3008 Exposure Standards for Atmospheric Contaminants in the Occupational Environment, Guidance Note.
- * NOHSC: 1015 Storage and Handling of Workplace Dangerous Goods, National Standard.
- * NOHSC: 2017 Storage and Handling of Workplace Dangerous Goods, National Code of Practice.
- * SUSDP: Standard for the Uniform Scheduling of Drugs and Poisons
- * ADG: Australian Dangerous Goods Code
- * MSDS of component materials.

LAST CHANGE: Supersedes document issued: 23 December 2016.
Reason/s for revision: Minor editorial changes to comply with GHS requirements.

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END OF SDS