

SECTION 1. IDENTIFICATION

Product name: Air1
Product type: Liquid
Product code: PA516L
ADG Class: Not applicable

Area of application: Industrial applications

Supplier: SCR Solutions Ltd

Address: 66 Aviation Ave
Mount Maunganui
New Zealand

Telephone number: +64 7 927 4452
Emergency: 0800 14 56 76
027 245 3307

**NZ Poisons
Information Centre:** 0800 764 766

**NZ Emergency
Services:** 111

SECTION 2. HAZARDS IDENTIFICATION

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation.

**CLASSES/HAZARD STATEMENTS:**

Subclass 6.3 Category B - Substances that are mildly irritating to the skin.
Subclass 6.4 Category A - Substances that are irritating to the eye.
Subclass 9.3 Category C - Substances that are harmful to terrestrial vertebrates.

SAFETY DIRECTIONS:

Keep out of reach of children. Avoid contact with skin and eyes and avoid breathing dust/vapour or spray mist. Wear overalls, impervious gloves and chemical goggles. Use only in well ventilated areas. Store away from sodium hypochlorite and nitric acid. Keep containers closed when not in use.

Harmful if swallowed. Give plenty of water to drink and seek medical advice. If in eye, flush gently with running water for 15 minutes. If inhaled, remove from exposure area. If irritation persists, seek medical attention. If skin or hair contact occurs, remove contaminated clothing and flush affected areas with running water. If irritation persists, seek medical attention.

DISPOSAL:

Refer to Waste Management Authority. Dispose of material through a licensed waste contractor.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components:	Proportion:	CAS Number:
Water	60-70%	7732-18-5
Urea	30-40%	57-13-6

SECTION 4. FIRST AID MEASURES

NZ Poisons Information Centre:	0800 764 766
NZ Emergency Services:	111
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:	Flush contaminated skin with plenty of 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 you feel unwell.
Specific treatments:	No specific treatment.
Notes to physician:	Treat symptomatically

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Use an extinguishing agent suitable for the surrounding fire.
Specific hazards arising from the chemical:	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides ammonia In case of inhalation of decomposition products in a fire, symptoms may be delayed.
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.
Remark:	Non-explosive.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures:** 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. If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.
- 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).
- Minor 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. Material free from contamination can be used for its original purpose.
- Major 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 (see section 13). Dispose of via a licensed waste disposal contractor. Material free from contamination can be used for its original purpose.

SECTION 7. HANDLING AND STORAGE

- Precautions for safe handling:** Put on appropriate personal protective equipment (see Section 8). 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.
- Conditions for safe storage, including any incompatibilities:** 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.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Appropriate engineering controls:	No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
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.
Hygiene 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.
Eye/face protection:	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 or dusts.
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.
Body protection:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved.
Respiratory protection:	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Colorless.
Odor:	Slight, ammoniacal
Odor threshold:	Not determined.
pH:	9 - 10
Melting/freezing point:	-10.5 °C (157 °F)
Boiling/condensation point:	100 °C (212 °F)
Sublimation temperature:	Not determined.
Flash point:	Not applicable
Burning time:	Not determined.
Burning rate:	Not determined.
Evaporation rate:	Not determined.
Flammability:	Non-flammable.
Vapor pressure:	Not determined.
Density:	1.09 g/cm ³
Relative density:	Not determined.
Solubility:	Not determined.
Solubility in water:	> 100 g/l
Auto-ignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Viscosity:	Dynamic: Not determined. Kinematic: Not determined.

SECTION 10. STABILITY AND REACTIVITY

Chemical stability:	Stable under recommended storage and handling conditions (see section 7).
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid:	No specific data.
Incompatible materials:	Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen trichloride.
Remark:	Reactive or incompatible with the following materials: Oxidizing agents acids alkalis nitrites and nitrate
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11. TOXICOLOGICAL INFORMATION

No adverse health effects are expected if the product is handled in accordance with this Safety Data Sheet. If the product is mishandled and over exposure occurs, the following symptoms may arise:

Ingestion: May cause nausea, vomiting, diarrhoea and abdominal pain

Eye contact: Mild irritation

Skin contact: Mild irritation

Inhalation: May cause respiratory irritation

Acute toxicity: Not available

Chronic effects: Not available

SECTION 12. ECOLOGICAL INFORMATION

Toxicity:	No known significant effects or critical hazards.
Persistence/degradability:	Readily biodegradable in plants and soils. The product does not show any bioaccumulation phenomena.
Bioaccumulative potential:	No known significant effects or critical hazards.
Mobility:	This product may move with surface or groundwater flows because its water solubility is: high
Other adverse effects:	No known significant effects or critical hazards.

SECTION 13. DISPOSAL CONSIDERATIONS

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. 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

Air: Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air

Marine: Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods (IMDG) Code

Road / Rail: Not classified as Dangerous Goods under NZS 5433:2012 Transport of Dangerous Good on Land.

SECTION 15. REGULATORY INFORMATION

Considered a Hazardous Substance according to the criteria of the New Zealand Hazardous Substances New Organisms legislation.

CLASSES: Subclass 6.3 Category B - Substances that are mildly irritating to the skin.
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HAZARD STATEMENTS: H316 Causes mild skin irritation
H320 Causes eye irritation
H433 Harmful to terrestrial vertebrates

SECTION 16. OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.