

SECTION: 1. Product and company identification

1.1. Product identifier

Product form : Substance
 Name : SDS-4064
 CAS No : 7727-37-9
 Formula : N₂

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Calibration / Reference
 Use of the substance/mixture : Industrial use. Use as directed.

1.3. Details of the supplier of the safety data sheet

| | |
|-----------------------------------|--------------------------------|
| Manufactured For: | Airtanks Limited |
| Scientific Gas Australia Pty Ltd. | 5/343 Church Street, Onehunga, |
| Unit 3, 1 Perry Street | Auckland 1061, New Zealand |
| Matraville NSW, 2036 - Australia | Phone: +64-9 930 6360 |
| Phone +61 2 8960 9262 | |

1.4. Emergency telephone number

Emergency number : Australian Poison Information Centre: 13 11 26; Australian Fire Brigade: 000;
 NZ Poison Centre: 0800 764 766; NZ Fire Brigade: 111;
 CHEMTREC: USA 1-800-424-9300, International +1-703-527-3887

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS-AU)

Compressed gas H280

Classification (NZ HAZARDOUS SUBSTANCES CLASSIFICATION REGULATIONS 2001)

NOT CLASSIFIED AS HAZARDOUS

2.2. Label elements

GHS-AU labelling

Hazard pictograms (GHS-AU) :



GHS04

Signal word (GHS-AU) :

WARNING

Hazard statements (GHS-AU) :

H280 - CONTAINS GAS UNDER PRESSURE; MAY EXPLODE IF HEATED
 OSHA-H01 - MAY DISPLACE OXYGEN AND CAUSE RAPID SUFFOCATION

Precautionary statements (GHS-AU) :

P403 - Use and store only outdoors or in a well-ventilated place
 CGA-PG27 - Read and follow the Safety Data Sheet (SDS) before use
 CGA-PG21 - Open valve slowly
 CGA-PG12 - Do not open valve until connected to equipment prepared for use
 CGA-PG11 - Never put cylinders into unventilated areas of passenger vehicles
 CGA-PG10 - Use only with equipment rated for cylinder pressure
 CGA-PG06 - Close valve after each use and when empty
 CGA-PG05 - Use a back flow preventive device in the piping
 CGA-PG02 - Protect from sunlight when ambient temperature exceeds 52°C (125°F)
 CGA-MP01 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention
 P261 - Avoid breathing gas, vapors

2.3. Other hazards

Other hazards not contributing to the classification :

Asphyxiant in high concentrations.

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2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/Information on ingredients

3.1. Substance

Name : SDS-4064
CAS No : 7727-37-9

| Name | Product identifier | % |
|----------|--------------------|-----|
| Nitrogen | (CAS No) 7727-37-9 | 100 |

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should give oxygen. Call a physician.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Hold the eyelids open and away from the eyeballs to ensure that all surfaces are flushed thoroughly. Contact an ophthalmologist immediately.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
HazChem code : 2T.

5.2. Special hazards arising from the substance or mixture

Reactivity : No reactivity hazard other than the effects described in sub-sections below.

5.3. Advice for firefighters

Firefighting instructions : Evacuate all personnel from the danger area. Use self-contained breathing apparatus (SCBA) and protective clothing. Immediately cool containers with water from maximum distance. Remove ignition sources if safe to do so. Remove containers from area of fire if safe to do so. On-site fire brigades must comply with their provincial and local fire regulations.

Protection during firefighting : Compressed gas: asphyxiant. Suffocation hazard by lack of oxygen.

Special protective equipment for fire fighters : Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.

Other information : Containers are equipped with a pressure relief device. (Exceptions may exist where authorized by DOT.).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent waste from contaminating the surrounding environment. Prevent soil and water pollution. Dispose of contents/container in accordance with local/regional/national/international regulations. Contact supplier for any special requirements.



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6.3. Methods and material for containment and cleaning up

No additional information available

6.4. Reference to other sections

See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wear leather safety gloves and safety shoes when handling cylinders. Protect cylinders from physical damage; do not drag, roll, slide or drop. While moving cylinder, always keep in place removable valve cover. Never attempt to lift a cylinder by its cap; the cap is intended solely to protect the valve. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Never insert an object (e.g, wrench, screwdriver, pry bar) into cap openings; doing so may damage the valve and cause a leak. Use an adjustable strap wrench to remove over-tight or rusted caps. Slowly open the valve. If the valve is hard to open, discontinue use and contact your supplier. Close the container valve after each use; keep closed even when empty. Never apply flame or localized heat directly to any part of the container. High temperatures may damage the container and could cause the pressure relief device to fail prematurely, venting the container contents. For other precautions in using this product, see section 16.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a cool, well-ventilated place. Store and use with adequate ventilation. Store only where temperature will not exceed 125°F (52°C). Firmly secure containers upright to keep them from falling or being knocked over. Install valve protection cap, if provided, firmly in place by hand. Store full and empty containers separately. Use a first in, first out inventory system to prevent storing full containers for long periods

OTHER PRECAUTIONS FOR HANDLING, STORAGE, AND USE: When handling product under pressure, use piping and equipment adequately designed to withstand the pressures to be encountered. Never work on a pressurized system. Use a back flow preventive device in the piping. Gases can cause rapid suffocation because of oxygen deficiency; store and use with adequate ventilation. If a leak occurs, close the container valve and blow down the system in a safe and environmentally correct manner in compliance with all international, federal/national, state/provincial, and local laws; then repair the leak. Never place a container where it may become part of an electrical circuit.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Nitrogen (7727-37-9) | | |
|----------------------|-----------------|-------------------|
| ACGIH | Not established | |
| USA OSHA | Not established | |
| NZ WES | Not applicable | Simple asphyxiant |

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8.2. Exposure controls

- Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Ensure exposure is below occupational exposure limits (where available).
- Personal protective equipment : Gloves. Safety glasses.



- Eye protection : Wear safety glasses when handling cylinders; vapor proof goggles and a face shield during cylinder changeout or whenever contact with product is possible. Select eye protection in accordance with AS/NZS 1336 and AS/NZS 1337.
- Skin and body protection : Wear work gloves and metatarsal shoes for cylinder handling. Protective equipment where needed. Select in accordance with AS/NZS 2161, AS/NZS 2210.1, and AS/NZS 4503.
- Respiratory protection : When workplace conditions warrant respirator use, follow a respiratory protection program that meets AS/NSZ 1715, AS/NSZ 1716, ANSI Z88.2, or MSHA 30 CFR 72.710 (where applicable). Use an air-supplied or air-purifying cartridge if the action level is exceeded. Ensure that the respirator has the appropriate protection factor for the exposure level. If cartridge type respirators are used, the cartridge must be appropriate for the chemical exposure. For emergencies or instances with unknown exposure levels, use a self-contained breathing apparatus (SCBA).
- Thermal hazard protection : Wear cold insulating gloves when transfilling or breaking transfer connections.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Gas
- Molecular mass : 28.1 g/mol
- Color : Colorless
- Odor : No data available
- Odor threshold : No data available
- pH : Not applicable.
- Relative evaporation rate (butyl acetate=1) : No data available
- Relative evaporation rate (ether=1) : Not applicable.
- Melting point : No data available
- Freezing point : No data available
- Boiling point : 195.8 °C
- Flash point : No data available
- Critical temperature : ~149.9 °C
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : No data available
- Vapor pressure : Not applicable.
- Critical pressure^e : 3394 kPa
- Relative vapor density at 20 °C : No data available
- Relative density : No data available
- Solubility : Water: No data available
- Log Pow : Not applicable.
- Log Kow : Not applicable.
- Viscosity, kinematic : Not applicable.
- Viscosity, dynamic : Not applicable.
- Explosive properties : Not applicable.
- Oxidizing properties : None.
- Explosion limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No reactivity hazard other than the effects described in sub-sections below.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|--|---|
| Acute toxicity | : Not classified |
| Skin corrosion/irritation | : Not classified pH: Not applicable. |
| Serious eye damage/irritation | : Not classified pH: Not applicable. |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : Not classified |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard | : Not classified |

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No known ecological damage caused by this product.

12.2. Persistence and degradability

| SDS-4064 (7727-37-9) | |
|-------------------------------|--|
| Persistence and degradability | No ecological damage caused by this product. |
| Nitrogen (7727-37-9) | |
| Persistence and degradability | No ecological damage caused by this product. |

12.3. Bioaccumulative potential

| SDS-4064 (7727-37-9) | |
|---------------------------|--|
| Log Pow | Not applicable. |
| Log Kow | Not applicable. |
| Bioaccumulative potential | No ecological damage caused by this product. |
| Nitrogen (7727-37-9) | |
| Log Pow | Not applicable. |
| Log Kow | Not applicable. |
| Bioaccumulative potential | No ecological damage caused by this product. |

12.4. Mobility in soil

| SDS-4064 (7727-37-9) | |
|----------------------|--|
| Mobility in soil | No data available. |
| Nitrogen (7727-37-9) | |
| Mobility in soil | No data available. |
| Ecology - soil | No ecological damage caused by this product. |

12.5. Other adverse effects

Effect on ozone layer : None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Do not attempt to dispose of residual or unused quantities. Return container to supplier.

Waste disposal recommendations : Do not attempt to dispose of residual or unused quantities. Return container to supplier.

SECTION 14: Transport information

Transport of Australian Dangerous Goods

UN-No. (ADG) : UN1066
 Proper Shipping Name (ADG) : NITROGEN, COMPRESSED
 Class (ADG) : 2.2 - 2.2 - Class 2.2 - Non-flammable compressed gas
 Danger labels (ADG) : 2.2 - Non-flammable compressed gas



In accordance with DOT

Transport document description : UN1066 Nitrogen, Compressed, 2.2
 UN-No.(DOT) : UN1066
 Proper Shipping Name (DOT) : Nitrogen, Compressed
 Class (DOT) : 2.2 - 2.2 - Class 2.2 - Non-flammable compressed gas
 Hazard labels (DOT) : 2.2 - Non-flammable gas



Additional information

Emergency Response Guide (ERG) Number : 121
 HazChem code : 2T.
 Other information : No supplementary information available.
 Special transport precautions : Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers:
 - Ensure there is adequate ventilation. - Ensure that containers are firmly secured. - Ensure cylinder valve is closed and not leaking. - Ensure valve outlet cap nut or plug (where provided) is correctly fitted. - Ensure valve protection device (where provided) is correctly fitted.

Transport by sea

UN-No. (IMDG) : 1066
 Proper Shipping Name (IMDG) : NITROGEN, COMPRESSED
 Class (IMDG) : 2 - Gases
 Limited quantities (IMDG) : 120ml
 EmS-No. (1) : F-C
 MFAG-No : None



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EmS-No. (2) : S-V

Air transport

UN-No. (IATA) : 1066
 Proper Shipping Name (IATA) : Nitrogen, compressed
 Class (IATA) : 2
 Instruction "cargo" (ICAO) : 200
 Instruction "passenger" (ICAO) : 200
 Instruction "passenger" - Limited quantities (ICAO) : FORBIDDEN

SECTION 15: Regulatory information

15.1. US Federal regulations

No additional information available

15.2. International regulations

CANADA

Nitrogen (7727-37-9)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

15.2.2. National regulations

No additional information available

15.3. US State regulations

SDS-4064(7727-37-9)

| | |
|---|----|
| U.S. - California - Proposition 65 - Carcinogens List | No |
| U.S. - California - Proposition 65 - Developmental Toxicity | No |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Female | No |
| U.S. - California - Proposition 65 - Reproductive Toxicity - Male | No |

Nitrogen (7727-37-9)

| U.S. - California - Proposition 65 - Carcinogens List | U.S. - California - Proposition 65 - Developmental Toxicity | U.S. - California - Proposition 65 - Reproductive Toxicity - Female | U.S. - California - Proposition 65 - Reproductive Toxicity - Male | Non-significant risk level (NSRL) |
|---|---|---|---|-----------------------------------|
| No | No | No | No | |

Nitrogen (7727-37-9)

U.S. - Massachusetts - Right To Know List
 U.S. - New Jersey - Right to Know Hazardous Substance List
 U.S. - Pennsylvania - RTK (Right to Know) List



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SECTION 16: Other information

Other information

- : When you mix two or more chemicals, you can create additional, unexpected hazards. Obtain and evaluate the safety information for each component before you produce the mixture. Consult an industrial hygienist or other trained person when you evaluate the end product. Before using any plastics, confirm their compatibility with this product

AnalysAir asks users of this product to study this SDS and become aware of the product hazards and safety information. To promote safe use of this product, a user should (1) notify employees, agents, and contractors of the information in this SDS and of any other known product hazards and safety information, (2) furnish this information to each purchaser of the product, and (3) ask each purchaser to notify its employees and customers of the product hazards and safety information

The opinions expressed herein are those of qualified experts within AnalysAir. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and the conditions of use are not within the control of AnalysAir, it is the user's obligation to determine the conditions of safe use of the product

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