SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label
  : Nitrogen

Product Code(s)
  : N2

Recommended use of the chemical and restrictions on use
  : Inert gas for pressurization of hydraulic accumulators.

Name, address, and telephone number of the supplier:
Parker Hannifin Corporation
Accumulator & Cooler Division
10711 N. Second Street
Machesney Park, IL, USA 61115

Supplier's Telephone #  : (815) 636-4100 (Monday - Friday, 8:00 AM - 5:00 PM, Central Time)

24 Hr. Emergency Tel #  : INFOTRAC - (800) 535-5053 (Within Continental US); (352) 323-3500 (Outside US)

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Appearance
Odour: odourless

Most important hazards: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazardous classification:
Gases under pressure - Compressed gas

Note: This material also has the following additional Hazard classification according to U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015):
OSHA defined hazard class: Simple asphyxiant
WHMIS 2015 physical hazard (PHNOC): Simple asphyxiant

Label elements

Hazard pictogram(s)

Signal Word
WARNING!

Hazard statement(s)
Contains gas under pressure; may explode if heated.
May displace oxygen and cause rapid suffocation.

Precautionary statement(s)
Protect from sunlight and store in well-ventilated place.
SAFETY DATA SHEET

Other hazards
Other hazards which do not result in classification:
None known.

Ecological information
Not expected to be harmful to aquatic organisms. See Section 12 for more environmental information.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS #</th>
<th>Concentration (% by weight)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen</td>
<td>Molecular Nitrogen; N2</td>
<td>7727-37-9</td>
<td>100%</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

**Ingestion**
Not an expected route of entry.

**Inhalation**
Wear personal protective equipment. A self contained breathing apparatus should be used in emergency situations or instances where exposure levels are not known. Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Get medical attention if irritation develops and persists.

**Skin contact**
Not normally required.

**Eye contact**
Not normally required.

Most important symptoms and effects, both acute and delayed
Simple asphyxiant - this product does not contain oxygen and may cause asphyxia in confined spaces. Oxygen content in the area must not fall below 18% or harmful effects will result. In extremely high concentrations, product may act as an asphyxiant and cause increased breathing and pulse rates, fatigue and unconsciousness. As asphyxiation progresses, nausea, vomiting, prostration and loss of consciousness may result, eventually leading to convulsions, coma and death.

Indication of any immediate medical attention and special treatment needed
Provide general supportive measures and treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

**Suitable extinguishing media**
Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.

**Unsuitable extinguishing media**
None known.

Special hazards arising from the substance or mixture / Conditions of flammability
Not flammable under normal conditions of use. Closed containers are contained under pressure and may explode if exposed to excess heat for a prolonged period of time. Product is a simple asphyxiant. Asphyxiant, can replace oxygen in confined area. May displace oxygen in breathing air and lead to suffocation and death, particularly in confined spaces.

Flammability classification (OSHA 29 CFR 1910.106)
Non-flammable.

Hazardous combustion products
None known.
SAFETY DATA SHEET

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters:
- Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Firefighters should wear self-contained breathing apparatus (SCBA).

Special fire-fighting procedures:
- Evacuate personnel to safe areas. Avoid inhaling gas. If feasible, stop the flow of gas. Move containers from fire area if safe to do so. Shield personnel to protect from venting or rupturing containers. Cool closed containers exposed to fire with water spray. Stay away from ends of cylinders and withdraw immediately in case of rising sounds or discoloration of containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
- Restrict access to area until completion of clean-up. Keep all other personnel upwind and away from the spill/release. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

Environmental precautions:
- Ensure spilled product does not enter confined areas.

Methods and material for containment and cleaning up:
- Ventilate area of release. Do not enter confined spaces unless adequately ventilated. Eliminate all ignition sources. Leaks in lines to equipment set-ups can be identified by painting suspected sites with soapy water. Leaks can be located by bubble formation. Stop spill or leak at source if safely possible. If leak cannot be stopped, move cylinders to an open space. Isolate the area until all gas has dispersed. Notify the appropriate authorities as required.

Special spill response procedures:
- INFOTRAC - (800) 535-5053 (Within Continental US); (352) 323-3500 (Outside US). If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802).
- US CERCLA Reportable quantity (RQ): None reported.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:
- Before handling, it is very important that engineering controls are operating, and that protective equipment requirements and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Simple asphyxiant - this product does not contain oxygen and may cause asphyxia in confined spaces. Oxygen content in the area must not fall below 18% or harmful effects will result. Use only in well-ventilated areas. Avoid inhaling gas. Keep away from extreme heat and flame. Keep away from incompatibles. Protect cylinders from damage. Never attempt to lift cylinder by its cap. Open valves slowly to prevent rapid decompression. Shut flow off at cylinder valve and not just at the regulator after use. Do not puncture or incinerate containers.

Conditions for safe storage:
- Cylinders should be stored upright and firmly secured to prevent falling or being knocked over. Store in a cool, dry, well ventilated area, away from heat and ignition sources. Avoid storage of cylinders for more than six months. Do not store in direct sunlight. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks.

Incompatible materials:
- Lithium ; carbon ;Ozone ;calcium ;Oxygen ;Hydrogen; Neodymium; Strontium; Zirconium; Barium.
SAFETY DATA SHEET

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
</tr>
<tr>
<td>Nitrogen</td>
<td>Simple asphyxiant</td>
<td>N/Av</td>
</tr>
</tbody>
</table>

**Exposure controls**

**Ventilation and engineering measures**

Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapours below their respective threshold limit value. Recommended monitoring procedures: Provide sufficient air exchange and/or exhaust in work rooms. Oxygen content in the area must not fall below 18% or harmful effects will result.

**Respiratory protection**

If engineering controls and work practices are not effective in controlling exposure to this material, then wear suitable approved respiratory protection. Confirmation of which type of respirator is most suitable for the intended application should be obtained from respiratory protection suppliers.

**Skin protection**

Not required under normal conditions of handling.

**Eye / face protection**

Chemical splash goggles are recommended. A full face shield may also be necessary.

**Other protective equipment**

An eyewash station and safety shower should be made available in the immediate working area. Other equipment may be required depending on workplace standards.

**General hygiene considerations**

Avoid inhaling gas. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance**

colourless gas

**Odour**

odourless

**Odour threshold**

odourless

**pH**

N/Ap

**Melting/Freezing point**

-210°C (~ -346°F)

**Initial boiling point and boiling range**

-195.8°C (~ 320.4°F)

**Flash point**

Non-flammable.

**Flashpoint (Method)**

N/Ap

**Evaporation rate (BuAe = 1)**

N/Ap

**Flammability (solid, gas)**

Not flammable.

**Lower flammable limit (% by vol.)**

N/Ap

**Upper flammable limit (% by vol.)**

N/Ap

**Oxidizing properties**

None known.

**Explosive properties**

Not explosive.

**Vapour pressure**

N/Ap. Colourless gas at room temperature.

**Vapour density**

0.967 @ 21.1°C

**Relative density / Specific gravity**

N/Ap
SAFETY DATA SHEET

Solubility in water: Insoluble or very slightly soluble in water.
Other solubility(ies): Soluble: Ammonia
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution:
\[ \log P(\text{oct}) = 0.92 \]
Auto-ignition temperature: N/A
Decomposition temperature: N/A
Viscosity: N/A
Volatiles (% by weight): N/A
Volatile organic Compounds (VOC's): N/A
Absolute pressure of container: N/A
Flame projection length: N/A
Other physical/chemical comments: Molecular Weight: 28.013

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive.
Chemical stability: Stable under normal conditions.
Possibility of hazardous reactions:
\[ \text{No dangerous reaction known under conditions of normal use. Hazardous polymerization does not occur.} \]
Conditions to avoid: High temperatures. Ensure adequate ventilation, especially in confined areas.
Incompatible materials: See Section 7 (Handling and Storage) for further details.
Hazardous decomposition products:
\[ \text{None known, refer to hazardous combustion products in Section 5.} \]

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation: YES
Routes of entry skin & eye: NO
Routes of entry Ingestion: NO
Routes of exposure skin absorption: NO

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation:
\[ \text{Simple asphyxiants - this product does not contain oxygen and may cause asphyxia in confined spaces. Oxygen content in the area must not fall below 18% or harmful effects will result.} \]
\[ \text{In extremely high concentrations, product may act as an asphyxiant and cause increased breathing and pulse rates, fatigue and unconsciousness. As asphyxiation progresses, nausea, vomiting, prostration and loss of consciousness may result, eventually leading to convulsions, coma and death.} \]

Sign and symptoms ingestion:
\[ \text{Not an expected route of entry under normal conditions of use. (gas)} \]

Sign and symptoms skin:
\[ \text{No known effect. Not an irritant.} \]
## SAFETY DATA SHEET

**Sign and symptoms eyes**: No known effect. Not an irritant.

### Potential Chronic Health Effects

- **Mutagenicity**: Not expected to be mutagenic in humans.
- **Carcinogenicity**: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
- **Reproductive effects & Teratogenicity**: Not expected to have other reproductive effects.
- **Sensitization to material**: Not expected to be a skin or respiratory sensitizer.
- **Specific target organ effects**: The substance or mixture is not classified as specific target organ toxicant, single exposure. The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
- **Medical conditions aggravated by overexposure**: Pre-existing skin, eye and respiratory disorders.
- **Synergistic materials**: No information available.
- **Toxicological data**: Not classified for acute toxicity based on available data. See below for toxicological data on the substance.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>LC50 (4hr) inh. rat</th>
<th>LD50 (Oral, rat)</th>
<th>LD50 (Rabbit, dermal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen</td>
<td>N/Av</td>
<td>N/Ap</td>
<td>N/Ap</td>
</tr>
</tbody>
</table>

### Other important toxicological hazards

- None known.

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**: No information available. Measured ecotoxicity data are not available for the aquatic toxicity endpoints for these gases. These chemicals are gases at standard temperature and pressure and are expected to partition primarily to air, therefore aquatic toxicity tests may not be relevant.

**Ecotoxicity data:**

#### Toxocity to Fish

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>LC50 / 96h</th>
<th>NOEC / 21 day</th>
<th>M Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>N/Av</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
</tbody>
</table>

#### Toxicity to Daphnia

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>EC50 / 48h</th>
<th>NOEC / 21 day</th>
<th>M Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>N/Av</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
</tbody>
</table>

#### Toxicity to Algae

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>EC50 / 96h or 72h</th>
<th>NOEC / 96h or 72h</th>
<th>M Factor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>N/Av</td>
<td>N/Av</td>
<td>N/Av</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET

Persistence and degradability

No information available. The methods for determining biodegradability are not applicable to inorganic substances.

Bioaccumulation potential

No information available.

<table>
<thead>
<tr>
<th>Components</th>
<th>Partition coefficient n-octanol/water (log Kow)</th>
<th>Bioconcentration factor (BCF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen (CAS 7727-37-9)</td>
<td>0.92</td>
<td>N/Ap</td>
</tr>
</tbody>
</table>

Mobility in soil

No information available.

Other Adverse Environmental effects

No information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal

Handle in accordance with good industrial hygiene and safety practice. See Section 7 (Handling and Storage) for further details. Allow to safely dissipate into atmosphere. Do not puncture or incinerate containers.

Methods of Disposal

Return to vendor with cylinder valve tightly closed and valve cap in place. Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.

RCRA

If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14. TRANSPORTATION INFORMATION

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>UN Number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class(es)</th>
<th>Packing Group</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDG</td>
<td>UN3164</td>
<td>ARTICLES, PRESSURIZED, HYDRAULIC</td>
<td>2.2</td>
<td>none</td>
<td>![2]</td>
</tr>
<tr>
<td>Add. information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>May be shipped as a LIMITED QUANTITY in containers no larger than 125 mL, in packages not exceeding 30 kg gross mass. Under the TDGR, refer to Section 1.17 for additional exemption information, if shipping under this exemption.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>49CFR/DOT</td>
<td>UN3164</td>
<td>ARTICLES, PRESSURIZED, HYDRAULIC</td>
<td>2.2</td>
<td>none</td>
<td>![2]</td>
</tr>
<tr>
<td>Add. information</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>For limited quantity shipping information, refer to 49 CFR Section 173.306. The following DOT Special permit applies to this product:DOT-SP 1862</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Special precautions for user

Keep away from extreme heat and flame. Appropriate advice on safety must accompany the package.

Environmental hazards

This substance does not meet the criteria for an environmentally hazardous substance according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

This information is not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:
Nitrogen
SDS Preparation Date (mm/dd/yyyy): 05/06/2016

SAFETY DATA SHEET

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>TSCA Inventory</th>
<th>CERCLA Reportable Quantity(RQ) (40 CFR 117.302):</th>
<th>SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:</th>
<th>SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical Toxic Chemical de minimus Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>Yes</td>
<td>N/A</td>
<td>N/A</td>
<td>No</td>
</tr>
</tbody>
</table>

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Pressurized gas hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>California Proposition 65 Listed</th>
<th>Type of Toxicity</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
<th>RI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>No</td>
<td>N/A</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

International Information:

Components listed below are present on the following International Inventory list:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>European EINECs</th>
<th>Australia AICS</th>
<th>Philippines PICCS</th>
<th>Japan ENCS</th>
<th>Korea KECl/KECl</th>
<th>China IECSC</th>
<th>New Zealand IOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nitrogen</td>
<td>7727-37-9</td>
<td>231-783-9</td>
<td>Present</td>
<td>Present</td>
<td>Not listed</td>
<td>KE-25994</td>
<td>Present</td>
<td>HSR001027</td>
</tr>
</tbody>
</table>

SECTION 16. OTHER INFORMATION

Legend:

ACGIH: American Conference of Governmental Industrial Hygienists
AICS: Australian Inventory of Chemical Substances
CA: California
CAS: Chemical Abstract Services
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
CFR: Code of Federal Regulations
DOT: Department of Transportation
EC50: Effective Concentration 50%.
EINECS: European Inventory of Existing Commercial Chemical Substances
ENCS: Existing and New Chemical Substances
EPA: Environmental Protection Agency
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
IECSC: Inventory of Existing Chemical Substances
Inh: Inhalation
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IOC: Inventory of Chemicals
KECI: Korean Existing Chemicals Inventory
KECL: Korean Existing Chemicals List
LC: Lethal Concentration
LD: Lethal Dose
MA: Massachusetts
MN: Minnesota
N/Ap: Not Applicable
N/Av: Not Available
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NOEC: No observable effect concentration
NTP: National Toxicology Program
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RQ: Reportable Quantity
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
SCBA: Self-Contained Breathing Apparatus
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substances Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References:
1. ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices (2015)
2. Canadian Centre for Occupational Health and Safety, CCInfoWeb Databases, 2016 (Chempendium, RTECs, HSDB, INCHEM).
3. IARC Monographs. Overall Evaluation of Carcinogenicity- 2016
5. US EPA Title III List of Lists: March 2015 Version
7. Material Safety Data Sheet from manufacturer.

Preparation Date (mm/dd/yyyy): 05/06/2016

Other special considerations for handling:
Provide adequate information, instruction and training for operators.

HMIS Rating

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>* - Chronic hazard</td>
<td>0 - Minimal</td>
<td>0 - Severe</td>
</tr>
<tr>
<td>1 - Slight</td>
<td>2 - Moderate</td>
<td>3 - Serious</td>
</tr>
<tr>
<td>4 - Severe</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Other special considerations for handling:
Provide adequate information, instruction and training for operators.
# SAFETY DATA SHEET

## Prepared for:
Parker Hannifin Corporation  
Accumulator & Cooler Division  
Machesney Park, IL 61115 USA  
Telephone: (815) 636-4100  
Please direct all enquiries to Parker Hannifin Corp.

## Prepared by:
ICC The Compliance Center Inc.  
Telephone: (888) 442-9628 (U.S.); (888) 977-4834 (Canada)  
http://www.thecompliancecenter.com

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## END OF DOCUMENT