1. Product and Company Identification

Material name: NITROGEN
Version #: 01
Revision date: 08-02-2010
CAS #: 7727-37-9
Product use: Fire extinguishing agent
Manufacturer / Importer / Supplier
Name: Tyco Fire Suppression and Building Products
Address: One Stanton Street
         Marinette, WI 54143-2542
Phone: 715-735-7411
Internet: http://www.ansul.com
Emergency Phone Number: CHEMTREC 800-424-9300 or 703-527-3887

2. Hazards Identification

Emergency overview
DANGER
Contents under pressure. Heat may cause the containers to explode.

OSHA regulatory status
This product is considered not hazardous under 29 CFR 1910.1200 (Hazard Communication).

Potential health effects
- Eyes: None known.
- Skin: None known.
- Inhalation: Suffocation (asphyxiating) hazard - if allowed to accumulate to concentrations that reduce oxygen below safe breathing levels.
- Ingestion: Not a likely route of entry.

Potential environmental effects
Ecological injuries are not known or expected under normal use.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Non-hazardous components</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>NITROGEN</td>
<td>7727-37-9</td>
<td>90 - 100</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures
- Eye contact: Flush thoroughly with water for at least 15 minutes. Get medical assistance.
- Skin contact: Rinse with water.
- Inhalation: Remove to fresh air.
- Ingestion: Not likely, due to the form of the product.
- General advice: If you feel unwell, seek medical advice (show the label where possible).

5. Fire Fighting Measures

Flammable properties
The product is not flammable. No unusual fire or explosion hazards noted.

Extinguishing media
- Suitable extinguishing media: This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials.
Protection of firefighters

Specific hazards arising from the chemical
Contents under pressure. Pressurized container may explode when exposed to heat or flame.

Specific methods
None known.

6. Accidental Release Measures

Personal precautions
None known.

Environmental precautions
No special environmental precautions required.

Methods for containment
Move the cylinder to a safe and open area if the leak is irreparable.

Methods for cleaning up
Not applicable.

Other information
Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling
Handle and open container with care.

Storage
Contents under pressure. Use care in handling/storage.

8. Exposure Controls / Personal Protection

Personal protective equipment
Eye / face protection
Not normally needed.

Skin protection
No special protective equipment required.

Respiratory protection
No personal respiratory protective equipment normally required.

General hygiene considerations
Handle in accordance with good industrial hygiene and safety practice.

9. Physical & Chemical Properties

Appearance
Form
Compressed gas.

Color
Colorless.

Odor
Odorless.

Physical state
Gas.

pH
Not available.

Melting point
Not available.

Freezing point
Not available.

Boiling point
-320.8 °F (-195.79 °C)

Flash point
Not available.

Evaporation rate
Not available.

Flammability limits in air, upper, % by volume
Not available.

Flammability limits in air, lower, % by volume
Not available.

Vapor pressure
Not available.

Vapor density
Not available.

Specific gravity
Not available.

Relative density
Not available.

Solubility (water)
Not available.

Partition coefficient (n-octanol/water)
0.67

Auto-ignition temperature
Not available.

Decomposition temperature
Not available.

VOC
Not available.

Molecular weight
28.01 g/mol

Molecular formula
N2
10. Chemical Stability & Reactivity Information

Chemical stability
Material is stable under normal conditions.

Conditions to avoid
Excessive heat.

Hazardous decomposition products
No hazardous decomposition products are known.

11. Toxicological Information

Carcinogenicity
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Further information
This product has no known adverse effect on human health.

12. Ecological Information

Ecotoxicity
This product has no known eco-toxicological effects.

Persistence and degradability
Not available.

13. Disposal Considerations

Disposal instructions
This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dispose in accordance with all applicable regulations.

Waste from residues / unused products
Not applicable.

Contaminated packaging
Not applicable.

14. Transport Information

DOT
Basic shipping requirements:

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN1066</th>
</tr>
</thead>
<tbody>
<tr>
<td>Proper shipping name</td>
<td>Nitrogen, compressed</td>
</tr>
<tr>
<td>Hazard class</td>
<td>2.2</td>
</tr>
<tr>
<td>Subsidiary hazard class</td>
<td>2.2</td>
</tr>
<tr>
<td>Packaging exceptions</td>
<td>306</td>
</tr>
<tr>
<td>Packaging non bulk</td>
<td>302</td>
</tr>
<tr>
<td>Packaging bulk</td>
<td>314, 315</td>
</tr>
<tr>
<td>ERG number</td>
<td>121</td>
</tr>
</tbody>
</table>

15. Regulatory Information

US federal regulations
This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

CERCLA (Superfund) reportable quantity
None
Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
- Acute Health - No
- Chronic Health - No
- Fire Hazard - No
- Pressure Hazard - No
- Reactivity Hazard - No

Section 302 extremely hazardous substance
No

Section 311 hazardous chemical
No

Inventory status

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>No</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - Pennsylvania RTK - Hazardous Substances: Listed substance
NITROGEN (CAS 7727-37-9) Listed.

16. Other Information

Further information
HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings
Health: 0
Flammability: 0
Physical hazard: 0

NFPA ratings
Health: 0
Flammability: 0
Instability: 0

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Issue date
08-02-2010