

MATERIAL SAFETY DATA SHEET

by Tyco Fire Suppression & Building Products

NITROGEN

Issue Date: 08-02-2010

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 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 (asphyxiant) hazard - if allowed to accumulate to concentrations that reduce oxygen

below safe breathing levels.

Ingestion Not a likely route of entry.

3. Composition / Information on Ingredients

Non-hazardous components	CAS#	Percent
NITROGEN	7727-37-9	90 - 100

4. First Aid Measures

First aid procedures

Eye contact Flush thoroughly with water for at least 15 minutes. Get medical assistance.

Skin contactRinse with water.InhalationRemove 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 precautionsNo 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, Not available.

% by volume

Flammability limits in air, lower, Not available.

% by volume

Vapor pressureNot available.Vapor densityNot available.Specific gravityNot available.Relative densityNot available.Solubility (water)Not available.

Partition coefficient 0.67

(n-octanol/water)

Auto-ignition temperature

Decomposition temperature

VOC

Not available.

Not available.

Not available.

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 instructionsThis 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:

UN number UN1066

Proper shipping name Nitrogen, compressed

Hazard class 2.2
Subsidiary hazard class 2.2
Packaging exceptions 306
Packaging non bulk 302
Packaging bulk 314, 315
ERG number 121



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 Section 311 hazardous

No

chemical

Inventory status

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

^{*}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.

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