



Safety Data Sheet

This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006

Product name Nitrogen

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Product code 007032
Product name Nitrogen

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

Recommended use No information available

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

Company Name

Tyco Fire Protection Products
One Stanton Street
Marinette, WI 54143-2542
Telephone: 715-735-7411

For further information, please contact

E-mail address psra@tycofp.com

1.4. Emergency telephone number

Emergency telephone - CHEMTREC 800-424-9300 or 703-527-3887

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Gases Under Pressure Compressed Gas - (H280)

2.2. Label Elements

Product Identifier



hazard statements

H280 - Contains gas under pressure; may explode if heated.

**2.3. Other Hazards**

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

2.4. Precautionary Statements**precautionary statements**

P410 + P403 - Protect from sunlight. Store in a well-ventilated place.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not Applicable

3.2 Mixture

Full text of H- and EUH-phrases: see section 16

SECTION 4: First aid measures**4.1. Description of first aid measures**

Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately if symptoms occur.).
Skin contact	Wash skin with soap and water. Get medical attention if irritation develops and persists.
Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Ingestion	Rinse mouth. Do not induce vomiting without medical advice. If swallowed, call a poison control center or physician immediately.

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

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

Note to physicians	Treat symptomatically.
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SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable Extinguishing Media**

Product is extinguishing agent. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

None

5.2. Special hazards arising from the substance or mixture



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None known

**Hazardous Combustion
Products**

Carbon oxides. Fluorinated oxides. Nitrogen oxides (NOx). Oxides of sulfur.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas.

Use personal protection recommended in Section 8.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Pick up and transfer to properly labeled containers.

6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.

General hygiene considerations

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

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Specific Use(s)

Fire extinguishing agent.

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits**

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Personal Protective Equipment

Eye/Face Protection Avoid contact with eyes. Tight sealing safety goggles.
Skin and Body Protection Suitable protective clothing.

Environmental exposure controls No information available.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical State	Compressed Gas	Color	Colorless
Odor	None		
odor threshold	No data available		

Property	VALUES	Remarks • Method
pH		No data available
Melting point/freezing point		No data available
Boiling point / boiling range	-2 °C / 29 °F	
Flash Point		No data available
Evaporation Rate		No data available
flammability (solid, gas)		No data available
Flammability limit in air		
Upper flammability limit:		No data available
Lower flammability limit:		No data available
Vapor Pressure		No data available
Vapor Density		No data available
Specific gravity		No data available
Water Solubility		No data available
solubility(ies)		No data available
Partition coefficient		No data available
Autoignition Temperature		No data available
Decomposition Temperature		No data available
Kinematic viscosity		No data available
Dynamic viscosity		No data available



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Explosive Properties

No data available

Oxidizing Properties

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under recommended storage conditions.

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

10.3. Possibility of hazardous reactions

hazardous polymerization

Hazardous polymerization does not occur.

None under normal processing.

10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx). Oxides of sulfur. Fluorinated oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute Toxicity

Product information

INHALATION

In high concentration the gas may cause a suffocation. Victim may not be aware of asphyxiation. In confined or poorly ventilated areas, vapors can readily accumulate and can cause unconsciousness and death.

Eye Contact

Contact with product may cause frostbite.

Skin contact

Contact with product may cause frostbite.

INGESTION

Not an expected route of exposure.

Unknown Acute Toxicity

Unknown Acute Toxicity

100% of the mixture consists of ingredient(s) of unknown toxicity.



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Skin Corrosion/Irritation

No information available.

Serious eye damage/eye irritation sensitization

No information available.

Germ Cell Mutagenicity carcinogenicity

No information available.

No information available.

No information available.

Reproductive Toxicity

Lack of oxygen during pregnancy has produced developmental abnormalities in humans and experimental animals.

STOT - Single Exposure

No information available.

STOT - Repeated Exposure

No information available.

Symptoms

Unconsciousness.

Aspiration Hazard

No information available.

SECTION 12: Ecological information

12.1. Toxicity

100% of the mixture consists of components(s) of unknown hazards to the aquatic environment

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

No information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods



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Waste from Residues/Unused Products

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Do not reuse container.

SECTION 14: Transport information

IMDG

14.1 UN/ID no	UN1066
14.2 Proper Shipping Name	Nitrogen, compressed
14.3 Hazard class	2.2
14.4 Packing group	NOT REGULATED
Description	UN1066, Nitrogen, compressed, 2.2
14.5 Marine Pollutant	Not Applicable
14.6 Special Provisions	None
EmS-No	F-C, S-V
14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC CODE	No information available

RID

14.1 UN/ID no	UN1066
14.2 Proper Shipping Name	Nitrogen, compressed
14.3 Hazard class	2.2
Labels	2.2 (+13)
14.4 Packing group	NOT REGULATED
Description	UN1066, Nitrogen, compressed, 2.2 (13)
14.5 Environmental Hazard	Not Applicable
Classification Code	1A
14.6 Special Provisions	None

ADR

14.1 UN/ID no	UN1066
14.2 Proper Shipping Name	Nitrogen, compressed
14.3 Hazard class	2.2
Labels	2.2
14.4 Packing group	NOT REGULATED
Description	UN1066, Nitrogen, compressed, 2.2, (E)
14.5 Environmental Hazard	Not Applicable
14.6 Special Provisions	None
Classification Code	1A
Tunnel restriction code	(E)

ICAO (air)

14.1 UN/ID no	UN1066
14.2 Proper Shipping Name	Nitrogen, compressed
14.3 Hazard class	2.2
14.4 Packing group	NOT REGULATED
Description	UN1066, Nitrogen, compressed, 2.2
14.5 Environmental Hazard	Not Applicable
14.6 Special Provisions	None

IATA

14.1 UN/ID no	UN1066
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14.2 Proper Shipping Name	Nitrogen, compressed
14.3 Hazard class	2.2
14.4 Packing group	NOT REGULATED
Description	UN1066, Nitrogen, compressed, 2.2
14.5 Environmental Hazard	Not Applicable
14.6 Special Provisions	None
ERG Code	2L

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Germany

Water hazard class (WGK) Not defined

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Persistent Organic Pollutants

Not Applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not Applicable

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances



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15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorization:

Legend SECTION 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Revision date 18-Jun-2015

Revision note Not Applicable.

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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.

End of Safety Data Sheet