

1. IDENTIFICATION

Product Name Nitrogen (Expellant)

Other Names

Recommended use of the chemical and

restrictions on use Identified uses

Identified uses Fire Extinguishing Expellant

Restrictions on use Consult applicable fire protection codes

Company Identification

Kidde-Fenwal, Inc.
400 Main Street
Ashland, MA 01721

USA

Customer Information Number (508) 881-2000

Emergency Telephone Number
CHEMTREC Number (800) 424-9300

(703) 527-3887 (International)

Issue DateSupersedes Date
November 15, 2019
October 1, 2015

Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200, the Canadian Hazardous Products Regulations (HPR) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

2. HAZARD IDENTIFICATION

Hazard Classification

Gas under pressure – compressed gas Simple Asphyxiant

Label Elements

Hazard Symbols



Signal Word: Warning

Hazard Statements

Contents under pressure; may explode if heated. May displace oxygen and cause rapid suffocation.

Precautionary Statements

Prevention

Do not enter confined space unless adequately ventilated. In case of inadequate ventilation wear respiratory protection.

Response

None

Storage

Keep container tightly closed.

Protect from sunlight and store in well-ventilated place.

Disposal

None

Revision Date: November 15, 2019 Page 1 of 7



2. HAZARD IDENTIFICATION

Other Hazards

Avoid direct inhalation of undiluted gas. Can cause suffocation by reducing oxygen available for breathing. Breathing very high concentrations can cause dizziness, shortness of breath, unconsciousness or asphyxiation.

Specific Concentration Limits

The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity 0%
Acute dermal toxicity 0%
Acute inhalation toxicity 0%
Acute aquatic toxicity 100%

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: N₂

This product is a substance.

Component CAS Number Concentration

Nitrogen 7727-37-9 100%

4. FIRST- AID MEASURES

Description of necessary first-aid measures

Eyes

No specific measures.

Skin

No specific measures.

Ingestion

Ingestion is not considered a potential route of exposure.

Inhalation

Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

Most important symptoms/effects, acute and delayed

Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

Indication of immediate medical attention and special treatment needed Notes to Physicians

Treat symptomatically.

5. FIRE - FIGHTING MEASURES

Suitable Extinguishing Media

All known extinguishing media can be used. Use extinguishing media appropriate for containers in the area.

Specific hazards arising from the chemical

Containers may explode in heat of fire.

Revision Date: November 15, 2019 Page 2 of 7



5. FIRE - FIGHTING MEASURES

Special Protective Actions for Fire-Fighters

Wear full protective clothing and self-contained breathing apparatus as appropriate for specific fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Remove leaking cylinder to a safe place. Ventilate the area. Leaks inside confined spaces may cause suffocation as oxygen is displaced and should not be entered without a self-contained breathing apparatus.

Environmental Precautions

None - Material is a normal atmospheric gas.

Methods and materials for containment and cleaning up

None

7. HANDLING AND STORAGE

Precautions for safe handling

Containers should be properly stored and secured to prevent falling or being knocked over. Do not drag, slide or roll containers. Do not drop containers or permit them to strike against each other. Never apply flame or localized heat directly to any part of the containers.

Conditions for safe storage

Store away from sources of heat or ignition. Storage area should be: - cool - dry - well ventilated - under cover - out of direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

Nitrogen

ACGIH: Simple Asphyxiant (Inert gas or vapor that acts primarily as a simple asphyxiant without other significant physiologic effects when present in high concentrations in air.)

Appropriate engineering controls

Use with adequate ventilation (natural or mechanical), especially in a confined space.

Individual protection measures

Respiratory Protection

Not normally required. In oxygen deficient atmospheres, use a self contained breathing apparatus, as an air purifying respirator will not provide protection.

Skin Protection

Use leather or sturdy work gloves when handling cylinders.

Eye/Face Protection

Chemical goggles or safety glasses with side shields.

Body Protection

Normal work wear.

Revision Date: November 15, 2019 Page 3 of 7



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State Compressed gas

Color Colorless Odor None

Odor Threshold No data available pH Not applicable

Gas Density 0.075 lb/ft³ @70°F as vapor

Boiling Range/Point (°C/F)

Melting Point (°C/F)

Flash Point (PMCC) (°C/F)

Vapor Pressure

Evaporation Rate (BuAc=1)

-196°C/-321°F

-210°C/-346°F

Not flammable

No data available

Not applicable

Solubility in Water 0.2 g/lVapor Density (Air = 1) 0.97

VOC (%) Not applicable Partition coefficient (n- No data available

octanol/water)

Viscosity

Auto-ignition Temperature

Decomposition Temperature
Upper explosive limit
Lower explosive limit
Flammability (solid, gas)

Not applicable
No data available
Not explosive
Not explosive
Not flammable

10. STABILITY AND REACTIVITY

Reactivity

Containers may rupture or explode if exposed to heat.

Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Extremely high temperatures

Incompatible Materials

None known

Hazardous Decomposition Products

None

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Simple asphyxiant.

Revision Date: November 15, 2019 Page 4 of 7



11. TOXICOLOGICAL INFORMATION

Specific Target Organ Toxicity (STOT) - single exposure

Exposure to nitrogen gas at high concentrations can cause suffocation by reducing oxygen available for breathing. Breathing very high concentrations can cause dizziness, shortness of breath, unconsciousness or asphyxiation.

Specific Target Organ Toxicity (STOT) - repeat exposure

No data available.

Serious Eye damage/Irritation

No data available.

Skin Corrosion/Irritation

No data available.

Respiratory or Skin Sensitization

No data available.

Carcinogenicity

Not considered carcinogenic by NTP, IARC, and OSHA.

Germ Cell Mutagenicity

No data available.

Reproductive Toxicity

No data available.

Aspiration Hazard

Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Mobility in soil

Nitrogen occurs naturally in the atmosphere.

Persistence/Degradability

Nitrogen occurs naturally in the atmosphere.

Bioaccumulative Potential

Nitrogen occurs naturally in the atmosphere.

Other adverse effects

No relevant studies identified.

Revision Date: November 15, 2019 Page 5 of 7



13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose of container in accordance with all applicable local and national regulations. Do not cut puncture or weld on or near to the container. If spilled, contents will vaporize to the atmosphere.

14. TRANSPORT INFORMATION

Safety Data Sheet information is intended to address a specific material and not various forms or states of containment.

DOT CFR 172.101 Data Nitrogen, compressed, 2.2, UN1066

UN Proper Shipping Name
UN Class

Nitrogen, compressed
(2.2) Non-Flammable Gas

UN Number UN1066
UN Packaging Group Not Applicable

Classification for AIR Transportation Consult current IATA Regulations prior to shipping by air.

IATA)

Classification for Water Transport IMDG Nitrogen, compressed, 2.2, UN1066

This section is believed to be accurate at the time of preparation. It is not intended to be a complete statement or summary of the applicable laws, rules, or hazardous material regulations, and is subject to change. Users have the responsibility to confirm compliance with all laws, rules, and hazardous material regulations in effect at the time of shipping.

15. REGULATORY INFORMATION

United States TSCA Inventory

All components of this product are in compliance with the inventory listing requirements of the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

Canada DSL Inventory

All ingredients in this product have been verified for inclusion on the Domestic Substance List (DSL).

SARA Title III Sect. 311/312 Categorization

Gas under pressure

SARA Title III Sect. 313

This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.

16. OTHER INFORMATION

NFPA Ratings

NFPA Code for Health - 0

NFPA Code for Flammability - 0

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards - None

Revision Date: November 15, 2019 Page 6 of 7



16. OTHER INFORMATION

Legend

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service

IARC: International Agency for Research on Cancer

LCLo: Lethal concentration low

N/A: Denotes no applicable information found or available

NTP: National Toxicology Program

OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

SDS: Safety Data Sheet

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

Revision Date: November 15, 2019

Replaces: October 1, 2015

Changes made: Updates to sections 1, 8 and 14, 15 and 16.

Information Source and References

This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

Prepared By: EnviroNet LLC.

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Revision Date: November 15, 2019 Page 7 of 7