

1. IDENTIFICATION

| | |
|----------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Product Name | Nitrogen (Expellant) |
| Other Names | N ₂ |
| Recommended use of the chemical and restrictions on use | |
| Identified uses | Fire Extinguishing Expellant |
| Restrictions on use | Consult applicable fire protection codes |
| Company Identification | Kidde Residential & Commercial 1016 Corporate Park Drive Mebane, NC 27302 USA |
| Customer Information Number | (919) 563-5911 (919) 304-8200 |
| Emergency Telephone Number | |
| CHEMTREC Number | (800) 424-9300 (703) 527-3887 (International) |
| Issue Date | April 10, 2015 |
| Supersedes Date | February 9, 2015 |

Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200) 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.

2. HAZARD IDENTIFICATION

Response

None

Storage

Keep container tightly closed.
Protect from sunlight and store in well-ventilated place.

Disposal

None

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

Nitrogen

CAS Number

7727-37-9

Concentration

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.

4. FIRST- AID MEASURES

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.

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

None established

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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.

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/ft ³ @70°F as vapor |
| Boiling Range/Point (°C/F) | -196°C/-321 °F |
| Melting Point (°C/F) | -210°C/-346 °F |
| Flash Point (PMCC) (°C/F) | Not flammable |
| Vapor Pressure | No data available |
| Evaporation Rate (BuAc=1) | Not applicable |
| Solubility in Water | 0.2 g/l |
| Vapor Density (Air = 1) | 0.97 |
| VOC (%) | Not applicable |
| Partition coefficient (n-octanol/water) | No data available |
| Viscosity | Not applicable |
| Auto-ignition Temperature | No data available |
| Decomposition Temperature | No data available |
| Upper explosive limit | Not explosive |
| Lower explosive limit | Not explosive |
| Flammability (solid, gas) | 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.

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.

11. TOXICOLOGICAL INFORMATION

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.

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. Specific volumes, pressures or hardware configurations containing such materials can dictate various different hazard classifications for transportation and labelling requirements. Under Federal Regulations only trained and qualified individuals are permitted to label and ship products following the applicable Department of Transportation (DOT), Federal Aviation Administration (FAA), Transport Canada (TC), International Maritime Dangerous Goods (IMDG) or International Air Transport Association (IATA) requirements.

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

Pressure Hazard



SAFETY DATA SHEET

Nitrogen (Expellant)

15. REGULATORY INFORMATION

SARA Title III Sect. 313

This product does not contain any chemicals 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

HMIS Ratings

HMIS Code for Health - 0
HMIS Code for Flammability - 0
HMIS Code for Physical Hazard - 0
HMIS Code for Personal Protection - See Section 8
*Chronic

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: April 10, 2015
Replaces: February 9, 2015
Changes made: Updated to GHS Classification.

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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