



# Material Safety Data Sheet

## 1. Product and Company Identification

Product name : **Krypton**  
Chemical formula : Kr  
Synonyms : None  
Company : SpecAir Specialty Gases  
22 Albiston Way  
Auburn, Maine 04210 USA  
Telephone : 207-777-6218  
Emergency : 800-535-5053

## 2. Composition/Information on Ingredients

Components	CAS Number	% Volume
Krypton	7439-90-9	99+%

## 3. Hazards Identification

### Emergency Overview

High pressure gas.  
Can cause rapid suffocation.

### Potential Health Effects

Inhalation : Material acts as a simple asphyxiant by displacing air necessary for life. Symptoms include rapid respiration, muscular incoordination, fatigue, dizziness, nausea, vomiting, unconsciousness, and death.  
Eye contact : Not identified as primary route of entry.  
Skin contact : Not identified as primary route of entry.  
Ingestion : Not identified as primary route of entry.  
Chronic Health Hazard : None known.

## 4. First Aid Measures

General advice : None.  
Eye contact : None.  
Skin contact : None.  
Ingestion : None.  
Inhalation : Immediately remove victim to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration.

## 5. Fire-Fighting Measures

Suitable : Use what is appropriate for surrounding fire.

extinguishing media

Specific hazards : Cylinder rupture may occur under fire conditions.

Special protective equipment for fire-fighters : Wear self contained breathing apparatus and full protective clothing. Keep fire exposed cylinders cool with water spray. Move container from fire area if possible.

## 6. Accidental Release Measures

Personal precautions : None.

Environmental precautions : None.

Methods for cleaning up : Evacuate and ventilate area. Remove leaking cylinder to exhaust hood or safe outdoor area. Shut off source if possible and remove source of heat.

Additional advice : None.

## 7. Handling and Storage

### Handling

Secure cylinder when using to protect from falling. Use suitable hand truck to move cylinders. Use only in a well-ventilated area.

### Storage

Store in well ventilated areas. Keep valve protection cap on cylinders when not in use.

## 8. Exposure Controls / Personal Protection

### Engineering measures

Provide adequate general and local exhaust ventilation to avoid asphyxiation.

### Personal protective equipment

Respiratory protection : Use a self-contained breathing apparatus in case of leakage.

Hand protection : None.

Eye protection : Safety glasses. A safety shower and eyewash station should be readily available.

Skin and body protection : Safety shoes when handling cylinders.

Remarks : None.

## 9. Physical and Chemical Properties

Form : Gas.

Color : Colorless.

Odor : Odorless.

Vapor pressure : Not applicable.

Vapor density : 2.89 (Air = 1)

Boiling point (C) : -153.3

Water solubility : Negligible.

Specific gravity : Gas (H<sub>2</sub>O = 1)

Evaporation rate : Gas.

## 10. Stability and Reactivity

Stability : Stable under normal conditions.

Conditions to avoid : Storage in poorly ventilated areas. Storage near a heat source.  
Materials to avoid : None.  
Hazardous decomposition products : None.

### 11. Toxicological Information

#### Acute Health Hazard

Ingestion : Not available.  
Inhalation : Not available.  
Skin : Not available.

### 12. Ecological Information

No adverse ecological effects are expected.

### 13. Disposal Considerations

Waste from residues / unused products : Dispose of non-refillable cylinders in accordance with federal, state and local regulations. Allow gas to vent slowly to atmosphere in an unconfined area or exhaust hood. If the cylinders are refillable type, return cylinders to supplier with any valve outlet plugs or caps secured and valve protection caps in place.  
Contaminated packaging : Return cylinder to supplier.

### 14. Transport Information

#### DOT (US only)

Proper shipping name : Krypton  
Class : 2.2  
UN/ID No. : UN1056  
Labeling : Non-Flammable Gas

#### Further information

Cylinders should be transported in a secure upright position in a well ventilated truck.

### 15. Regulatory Information

#### OSHA Hazard Communication Standard (29 CFR 1910.1200) Hazard Class(es)

Material is not listed in appendix A of 29 CFR 1910.119 as highly hazardous chemical.

#### TCSA

Material is listed in TSCA inventory.

#### SARA

The threshold planning quantity for material is 10,000 lbs.

#### Number in Annex 1 of DIR 67/548

Not listed in annex 1.