



## Safety Data Sheet

Material Name: Krypton

### \*\*\*Section 1 - IDENTIFICATION\*\*\*

#### Manufacturer Information

Electronic Fluorocarbons,  
LLC 3266 Bergey Road  
Hatfield PA 19440

General Information: 215-443-9600  
Emergency #: 1-800-535-5053 (Infotrac)  
Outside the US: 1-352-323-3500

#### Product Identifier: Krypton

##### Chemical Family

inorganic, gas

##### Product Use

industrial

##### Restrictions on Use

None known.

### \*\*\*Section 2 - HAZARDS IDENTIFICATION\*\*\*

#### GHS Classification

Gas under pressure, Compressed gas

#### GHS LABEL ELEMENTS

##### Symbol(s)



##### Signal Word

WARNING

##### Hazard Statement(s)

Contains gas under pressure; may explode if heated

##### Precautionary Statement(s)

##### Storage

Protect from sunlight. Store in a well-ventilated place.

##### Disposal

Dispose in accordance with all applicable regulations.

##### Other Hazards which do not Result in Classification

May cause asphyxia. May cause frostbite upon sudden release of compressed gas.

### \*\*\*Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS\*\*\*

CAS#	Component	Percent
7439-90-9	Krypton	100

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## \*\*\*Section 4 - FIRST AID MEASURES\*\*\*

### Inhalation

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

### Skin

If frostbite or freezing occur, immediately flush with plenty of lukewarm water (105-115 F; 41-46 C). DO NOT USE HOT WATER. If warm water is not available, gently wrap affected parts in blankets. Get immediate medical attention.

### Eyes

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

### Ingestion

If a large amount is swallowed, get medical attention.

### Note to Physicians

For inhalation, consider oxygen.

### Symptoms: Immediate

frostbite, suffocation

### Symptoms: Delayed

No information on significant adverse effects.

## \*\*\*Section 5 - FIRE FIGHTING MEASURES\*\*\*

See Section 9 for Flammability Properties

### Specific Hazards Arising from the Chemical

Negligible fire hazard. Containers may rupture or explode if exposed to heat.

### Extinguishing Media

Use extinguishing agents appropriate for surrounding fire.

### Unsuitable Extinguishing Media

None known.

### Protective Equipment and Precautions for Firefighters

Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

### Fire Fighting Measures

Move container from fire area if it can be done without risk. Cool containers with water spray until well after the fire is out. Stay away from the ends of tanks. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. For tank, rail car or tank truck, evacuation radius: 800 meters (1/2 mile). Use extinguishing agents appropriate for surrounding fire. Cool containers with water spray until well after the fire is out. Apply water from a protected location or from a safe distance. Do not get water directly on material. Reduce vapors with water spray. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. Consider downwind evacuation if material is leaking.

## \*\*\*Section 6 - ACCIDENTAL RELEASE MEASURES\*\*\*

### Personal Precautions

Wear personal protective clothing and equipment, see Section 8.

### Environmental Precautions

Avoid release to the environment.

### Methods for Containment

Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.

### Cleanup Methods

Stop leak if possible without personal risk.

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## \*\*\*Section 7 - HANDLING AND STORAGE\*\*\*

### Handling Procedures

Wash thoroughly after handling.

### Storage Procedures

Store and handle in accordance with all current regulations and standards. Protect from sunlight. Store in a well-ventilated place. See original container for storage recommendations. Keep separated from incompatible substances.

**Incompatibilities** No data available.

## \*\*\*Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION\*\*\*

### Component Exposure Limits

ACGIH, EU, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

### Component Biological Limit Values

There are no biological limit values for any of this product's components.

### Engineering Controls

Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

## PERSONAL PROTECTIVE EQUIPMENT

### Eyes/Face

For the gas: Eye protection not required, but recommended. For the liquid: Wear splash resistant safety goggles. Contact lenses should not be worn. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

### Protective Clothing

For the gas: Protective clothing is not required. For the liquid: Wear appropriate protective, cold insulating clothing.

### Glove Recommendations

Wear insulated gloves.

### Respiratory Protection

Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

Respiratory protection is ranked in order from minimum to maximum.

Consider warning properties before use.

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode.

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

### **For Unknown Concentrations or Immediately Dangerous to Life or Health -**

Any supplied-air respirator with a full facepiece that is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode.

## \*\*\*Section 9 - PHYSICAL AND CHEMICAL PROPERTIES\*\*\*

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**Material Name:** Krypton

<b>Physical State:</b>	Gas	<b>Appearance:</b>	colorless, gas
<b>Color:</b>	colorless	<b>Physical Form:</b>	gas
<b>Odor:</b>	odorless	<b>Odor Threshold:</b>	odorless
<b>Taste:</b>	tasteless	<b>pH:</b>	Not available
<b>Melting/Freezing Point:</b>	-157 °C	<b>Boiling Point:</b>	-152 °C
<b>Flash Point:</b>	Not flammable	<b>Decomposition:</b>	Not available
<b>Evaporation Rate:</b>	Not available	<b>LEL:</b>	Not available
<b>UEL:</b>	Not available	<b>Vapor Pressure:</b>	Not available
<b>Vapor Density (air = 1):</b>	Not available	<b>Specific Gravity (water=1):</b>	2.155 @ -153 °C
<b>Water Solubility:</b>	soluble	<b>Log KOW:</b>	Not available
<b>Auto Ignition:</b>	Not available	<b>Viscosity:</b>	Not available
<b>Molecular Weight:</b>	83.80	<b>Molecular Formula:</b>	Kr

## \*\*\*Section 10 - STABILITY AND REACTIVITY\*\*\*

### Reactivity

No reactivity hazard is expected.

### Chemical Stability

Stable at normal temperatures and pressure.

### Conditions to Avoid

Protect from physical damage and heat. Containers may rupture or explode if exposed to heat.

### Possibility of Hazardous Reactions

Will not polymerize.

### Incompatible Materials

No data available.

### Decomposition Products

miscellaneous decomposition products

## \*\*\*Section 11 - TOXICOLOGICAL INFORMATION\*\*\*

### Acute and Chronic Toxicity

#### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and no selected endpoints have been identified.

#### RTECS Acute Toxicity (selected)

The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

#### Immediate Effects

frostbite, suffocation

#### Delayed Effects

No information on significant adverse effects.

#### Irritation/Corrosivity Data

No animal testing data available for skin or eyes.

#### RTECS Irritation

The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

#### Respiratory Sensitizer

No data available.

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**Material Name:** Krypton

**Dermal Sensitizer**

No data available.

**Carcinogenicity**

**Component Carcinogenicity**

None of this product's components are listed by ACGIH, IARC, NTP, OSHA or DFG.

**Mutagenic Data**

No data available.

**Reproductive Effects Data**

No data available.

**Tumorigenic Data**

No data available.

**Specific Target Organ Toxicity - Single Exposure**

No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

No data available.

**Aspiration Hazard**

Not applicable.

**Medical Conditions Aggravated by Exposure**

None known.

**\*\*\*Section 12 - ECOLOGICAL INFORMATION\*\*\***

**Component Analysis - Aquatic Toxicity**

No LOLI ecotoxicity data are available for this product's components.

**Persistence and Degradability**

No data available.

**Bioaccumulative Potential**

No data available.

**Mobility in Environmental Media**

No data available.

**\*\*\*Section 13 - DISPOSAL CONSIDERATIONS\*\*\***

**Disposal Methods**

Dispose in accordance with all applicable regulations.

**Component Waste Numbers**

The U.S. EPA has not published waste numbers for this product's components.

**\*\*\*Section 14 - TRANSPORT INFORMATION\*\*\***

**US DOT Information**

**Shipping Name:** Krypton, compressed

**UN/NA #:** UN1056 **Hazard Class:** 2.2

**Required Label(s):** 2.2

**IMDG Information**

**Shipping Name:** Krypton, compressed

**UN #:** UN1056 **Hazard Class:** 2.2

**Required Label(s):** 2.2

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## \*\*\*Section 15 - REGULATORY INFORMATION\*\*\*

### Component Analysis

#### U.S. Federal Regulations

None of this products components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

#### SARA 311/312 Hazardous Categories

**Acute Health:** Yes **Chronic Health:** No **Fire:** No **Pressure:** Yes **Reactive:** No

#### U.S. State Regulations

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA.

Not regulated under California Proposition 65

#### Component Analysis - Inventory

Component	CAS	US	CA	EU	AU	PH	JP	KR	CN	NZ
Krypton	7439-90-9	Yes	DSL	EIN	Yes	Yes	No	Yes	Yes	No

## \*\*\*Section 16 - OTHER INFORMATION\*\*\*

**NFPA Ratings: Health: 3 Fire: 0 Reactivity: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe