

**1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name	<b>Neon Gas, Enriched Neon</b>
Chemical Formula	Ne
Molecular Weight	20.1797 g/mol
CAS No.	7440-01-9
Supplier Address*	ISOFLEX USA PO Box 472615 San Francisco CA 94147 United States
Telephone	+1 415-440-4433
Fax	+1 415-563-4433
Emergency Phone Number (both supplier and manufacturer)	Infotrac/ +1 800-535-5053  *May include subsidiaries or affiliate companies/divisions
Email	<a href="mailto:iusa@isoflex.com">iusa@isoflex.com</a>
Website	<a href="http://www.isoflex.com">www.isoflex.com</a>
Preparation Information	ISOFLEX USA Product Safety +1 415-440-4433

**2. HAZARDS IDENTIFICATION**

**Emergency Overview:**

Appearance:	Colorless, odorless gas
Major Health Hazards:	Difficulty breathing
Physical Hazards:	Containers may rupture or explode if exposed to heat.
OSHA Hazards:	Compressed gas
GHS Classification:	Gases under pressure (Compressed gas)

**NFPA Ratings:** (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

**Health Hazard = 1    Flammability = 0    Reactivity = 0**



**HMIS Ratings:** (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

**Health Hazard = 0      Flammability = 1      Physical Hazard = 1**

<b>HEALTH HAZARD</b>	<b>0</b>
<b>FLAMMABILITY</b>	<b>1</b>
<b>PHYSICAL HAZARD</b>	<b>1</b>

### Potential Health Effects

**Inhalation**      *Short-term exposure:* May be harmful if inhaled. May cause nausea, vomiting, difficulty breathing, irregular heartbeat, headache, dizziness, disorientation, mood swings, tingling sensation, loss of coordination, suffocation, convulsions, unconsciousness, coma. *Long-term exposure:* No information available

**Skin Contact**      *Short-term exposure:* May be harmful if absorbed through skin. May cause skin irritation or frostbite. *Long-term exposure:* No information available.

**Eye Contact**      *Short-term exposure:* May cause eye irritation or frostbite. *Long-term exposure:* No information available.

**Ingestion**      *Short-term exposure:* Ingestion of harmful amounts is unlikely, frostbite. *Long-term exposure:* Ingestion of harmful amounts is unlikely.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name: Neon Gas  
CAS No.: 7440-01-9  
Chemical Formula: Ne  
Molecular Weight: 20.1797 g/mol

No ingredients are hazardous, according to OSHA criteria.

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### 4. FIRST AID MEASURES

**General Advice**      Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Inhalation Exposure**      Supply fresh air. If required, provide artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

**Skin Exposure**      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. Seek immediate medical attention.

**Eye Exposure**      Rinse opened eye for several minutes under running water. Then consult a doctor.

**Oral Exposure**      Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical attention.

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## 5. FIREFIGHTING MEASURES

### *Fire and Explosion Hazards*

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

### *Suitable Extinguishing Media*

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### *Further Information*

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).

### **Firefighters**

### *Protective Equipment*

Wear self-contained breathing apparatus for firefighting if necessary.

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## 6. ACCIDENTAL RELEASE MEASURES

### *Personal Precautions*

Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

### *Environmental Precautions*

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### *Methods for Cleaning Up*

Clean up promptly by vacuum. Stay upwind and keep out of low areas.

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## 7. HANDLING AND STORAGE

### *Storage*

Keep container lightly closed in a dry and well-ventilated place. Store and handle in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Exposure Limits**

No occupational exposure limits established

### **Personal Protective Equipment**

#### *Ventilation*

Based on available information, additional ventilation is not required. Ensure compliance with applicable exposure limits.

#### *Eye Protection*

For gas: Eye protection not required, but recommended. For 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.

#### *Body Protection*

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

#### *Hand Protection*

Wear insulated gloves.

#### *Respirator*

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. For *Unknown Concentrations or Immediately Dangerous to Life or Health* - Any supplied-air respirator with a full face-piece 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 face-piece and is operated in a pressure-demand or other positive-pressure mode.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

<i>Physical State</i>	Gas
<i>Color</i>	Colorless
<i>Odor</i>	Odorless
<i>Taste</i>	Tasteless

### Safety Data

Molecular Weight:	20.179 g/mol	pH:
	N/A	
BP/BP Range:	-411 °F (-246 °C)	MP/MP Range:
	-416 °F (-249 °C)	
Freezing Point:	N/A	Solubility in
	Water: Slightly soluble	
Vapor Density:	0.6964	Saturated
	Vapor Concentration: N/A	
SG/Density:	N/A	Density:
	0.6964	
Odor Threshold:	N/A	Volatile %:
	N/A	
VOC Content:	N/A	Water Content:
	N/A	
Solvent Content:	N/A	Evaporation Rate:
	N/A	
Viscosity:	0.03181 cP @ 26.8 CN/A	Surface
	Tension: N/A	
Partition Coefficient:	N/A	Decomposition
	Temperature: N/A	
Flash Point:	N/A	Explosion
	Limits: N/A	
Flammability:	N/A	Autoignition
	Temperature N/A	
Refractive Index:	N/A	Optical Rotation:
	N/A	
Miscellaneous Data:	N/A	

## 10. STABILITY AND REACTIVITY

<i>Stability</i>	Stable at normal temperatures and pressure
<i>Conditions to Avoid</i>	Protect from physical damage and heat. Containers may rupture or explode if exposed to heat.
<i>Polymerization</i>	Will not polymerize
<i>Possibility of Hazardous Reactions</i>	No data available
<i>Materials to Avoid</i>	Strong oxidizing agents

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity**

<i>Oral LD50</i>	No data available
<i>Inhalation LC50</i>	No data available
<i>Dermal LD50</i>	No data available
<i>Other Information</i>	No data available
<i>Skin Irritation</i>	No data available
<i>Serious Eye Irritation</i>	No data available
<i>Respiratory or Skin Sensitization</i>	No data available
<i>Germ Cell Mutagenicity</i>	No data available



## Carcinogenicity

*IARC* No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.

*ACGIH* No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

*NTP* No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

*OSHA* No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

*Reproductive Toxicity* No data available

*Teratogenicity* No data available

*Specific Target Organ Toxicity / Single Exposure (Globally Harmonized System)* No data available

*Specific Target Organ Toxicity / Repeated Exposure (Globally Harmonized System)* No data available

*Aspiration Hazard* No data available

## Potential Health Effects

*Inhalation* May be harmful if inhaled; may cause respiratory tract irritation

*Ingestion* May be harmful if swallowed

*Skin* May be harmful if absorbed through skin; may cause skin irritation

*Eyes* May cause eye irritation

*Signs and Symptoms of Exposure* Nausea, headache, vomiting. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

*Synergistic Effects* No data available

*Additional Information* RTECS: Not available

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## 12. ECOLOGICAL INFORMATION

*Toxicity* No data available

*Persistence and Degradability* No data available

*Bioaccumulative Potential* No data available

*Mobility in Soil* No data available

*PBT and vPvB Assessment* No data available

*Other Adverse Effects* No data available

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## 13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dispose of as unused product.

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#### 14. TRANSPORT INFORMATION

##### DOT (US)

<i>Proper Shipping Name</i>	Neon, compressed
<i>UN No.</i>	1065
<i>Class</i>	2.2
<i>Marine Pollutant</i>	No
<i>Poison Inhalation Hazard</i>	No

##### IMDG

<i>Proper Shipping Name</i>	Neon, compressed
<i>UN No.</i>	1065
<i>Class</i>	2.2
<i>Marine Pollutant</i>	No

##### IATA

<i>Proper Shipping Name</i>	Neon, compressed
<i>UN No.</i>	1065
<i>Class</i>	2.2

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#### 15. REGULATORY INFORMATION

**OSHA Hazards** Compressed Gas

**SARA 302 Components** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

##### SARA 311/312 Hazards

<i>Acute</i>	Yes
<i>Chronic</i>	No
<i>Fire</i>	No
<i>Reactive</i>	No
<i>Sudden Release</i>	Yes

**California Prop. 65 Components** This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

**OSHA Process Safety (29 CFR 1910.119)** Not regulated

**Canadian Regulations** WHMIS CLASSIFICATION: A

**National Inventory Status** U.S. Inventory (TSCA): Listed on inventory

**TSCA 12(b) Export Notification** Not listed

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## 16. OTHER INFORMATION

*Prepared By* ISOFLEX USA  
PO Box 472615  
San Francisco CA 94147  
United States

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*Revision Number* 4

*Revision Note* Update supplier address

### ISOFLEX USA's Commonly Used Abbreviations and Acronyms\*

ACGIH American Conference of Governmental Industrial Hygienists  
ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road  
AICS Australian Inventory of Chemical Substances  
ALARA As Low As Is Reasonably Achievable  
AMU Atomic Mass Unit  
ANSI American National Standards Institute  
BLS Basic Life Support  
BOD5 Biochemical Oxygen Demand  
CAM Continuous Air Monitor  
CAS Chemical Abstracts Service (division of the American Chemical Society)  
CEN European Committee for Standardization  
CERCLA Comprehensive Environmental Response Compensation and Liability Act  
CLP Classification, Labelling and Packaging (European Union)  
COD Chemical Oxygen Demand  
CPR Controlled Products Regulations (Canada)  
CWA Clean Water Act (USA)  
DAC Derived Air Concentration (USA)  
DOE United States Department of Energy (USA)  
DOT United States Department of Transportation (USA)  
DSL Domestic Substances List (Canada)  
EC50 Half Maximal Effective Concentration  
ECL Korean Existing Chemicals List  
EINECS European Inventory of Existing Commercial Chemical Substances  
EHS Environmentally Hazardous Substance  
ELINCS European List of Notified Chemical Substances  
EMS Emergency Response Procedures for Ships Carrying Dangerous Goods  
EPA Environmental Protection Agency (USA)  
EPCRA Emergency Planning and Community Right-To-Know Act (EPCRA) of 1986  
GHS Globally Harmonized System  
HMIS Hazardous Materials Identification System (USA)  
IARC International Agency for Research on Cancer  
IATA International Air Transport Association  
IBC Intermediate Bulk Containers  
ICAO International Civil Aviation Organization  
IDLH Immediately Dangerous to Life or Health  
IECSC Inventory of Existing Chemical Substances Produced or Imported in China

IMDG	International Maritime Code for Dangerous Goods
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
LDLO	Lethal Dose Low
LOEC	Lowest-Observed-Effective Concentration
MARPOL	International Convention for the Prevention of Pollution from Ships
MSHA	Mine Safety and Health Administration (USA)
NCRP	National Council on Radiation Protection & Measurements (USA)
NDSL	Non-Domestic Substances List (Canada)
NFPA	National Fire Protection Association (USA)
NIOSH	National Institute for Occupational Safety and Health (USA)
NOEC	No Observed Effect Concentration
N.O.S.	Not Otherwise Specified
NRC	Nuclear Regulatory Commission (USA)
NTP	National Toxicology Program (USA)
OSHA	Occupational Safety and Health Administration (USA)
PBT	Persistent Bioaccumulative and Toxic Chemical
PEL	Permissible Exposure Limit
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PIH	Poisonous by Inhalation Hazard
RCRA	Resource Conservation and Recovery Act (USA)
RCT	Radiation Control Technician
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals (Europe)
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
RQ	Reportable Quantity
RTECS	Registry of Toxic Effects of Chemical Substances
SARA	Superfund Amendments and Reauthorization Act (USA)
SNUR	Significant New Use Rule (TSCA)
TDG	Transportation of Dangerous Goods (Canada)
TIH	Toxic by Inhalation Hazard
TLV	Threshold Limit Value
TPQ	Threshold Planning Quantity
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
UN	United Nations (Number)
VOC	Volatile Organic Compound
vPvB	Very Persistent Very Bioaccumulative Chemical
WGK	Wassergefährdungsklassen (Germany: Water Hazard Classes)
WHMIS	Workplace Hazardous Materials Information System

\*One or more of the above-listed items may not appear in this document.

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