1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	**Neon Gas, Enriched Neon**
Chemical Formula	Ne
Molecular Weight	20.1797 g/mol
CAS No.	7440-01-9
Supplier Address*	ISOFLEX USA PO Box 29475 San Francisco CA 94129 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	iusa@isoflex.com
Website	www.isoflex.com
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**

HEALTH HAZARD	0
FLAMMABILITY	1
PHYSICAL HAZARD	1

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.

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.

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.

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.

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.

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.

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

Physical State	Gas
Color	Colorless
Odor	Odorless
Taste	Tasteless

Safety Data

Molecular Weight:	20.179 g/mol	pH:	N/A
BP/BP Range:	-411 ºF (-246 ºC)	MP/MP Range:	-416 ºF (-249 ºC)
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

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.
Polymerization	Will not polymerize
Possibility of Hazardous Reactions	No data available
Materials to Avoid	Strong oxidizing agents

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

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

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

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.

14. TRANSPORT INFORMATION

DOT (US)

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

IMDG

Proper Shipping Name	Neon, compressed
UN No.	1065
Class	2.2
Marine Pollutant	No

IATA

Proper Shipping Name	Neon, compressed
UN No.	1065
Class	2.2

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

Acute	Yes
Chronic	No
Fire	No
Reactive	No
Sudden Release	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

16. OTHER INFORMATION

Prepared By	ISOFLEX USA PO Box 29475 San Francisco CA 94129 United States
Issuing Date	November 17, 2014
Revision Date	August 1, 2021
Revision Number	2
Revision Note	Required review and update

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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