

Issue Date: 03-Aug-2022

Revision Date: 25-Jun-2024

Version 2

1. IDENTIFICATION

Product identifier

Product Name Neon

Other means of identification

SDS # EF-026
Synonyms Neon, compress.
UN/ID No UN1065

Recommended use of the chemical and restrictions on use

Recommended Use Industrial.

Details of the supplier of the safety data sheet

Supplier Address

EFC Gases & Advanced Materials
 3266 Bergey Road
 Hatfield, PA 19440
 Email: efcsafety@efcgases.com

Emergency telephone number

Company Phone Number 215-443-9600
Emergency Telephone INFOTRAC 1-352-323-3500 (International)
 1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Colorless gas

Physical state Gas

Odor Odorless

Classification

Gases under pressure	Liquefied gas
Gases under pressure	Refrigerated liquefied gas
Simple asphyxiants	Yes

Signal Word

Warning

Hazard statements

Contains gas under pressure; may explode if heated
 Contains refrigerated gas; may cause cryogenic burns or injury
 May displace oxygen and cause rapid suffocation



Precautionary Statements - Prevention

Wear cold insulating gloves/face shield/eye protection

Precautionary Statements - Response

Get immediate medical advice/attention

Thaw frosted parts with lukewarm water. Do not rub affected area

Precautionary Statements - Storage

Protect from sunlight. Store in a well-ventilated place

Store in a well-ventilated place

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms Neon, compress.
Chemical Family Inorganic, gas.

Chemical name	CAS No	Weight-%
Neon	7440-01-9	100

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**Description of first aid measures****Eye Contact**

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

Skin Contact

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.

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.

Ingestion

If a large amount is swallowed, get medical attention.

Most important symptoms and effects, both acute and delayed**Symptoms**

Frostbite, suffocation.

Indication of any immediate medical attention and special treatment needed**Notes to Physician**

For inhalation, consider oxygen.

5. FIRE-FIGHTING MEASURES**Suitable Extinguishing Media**

Use extinguishing agents appropriate for surrounding fire. Large fires: Use regular foam or flood with fine water spray.

Unsuitable Extinguishing Media None known.**Specific Hazards Arising from the Chemical**

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

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. 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).

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Wear personal protective clothing and equipment, see Section 8.

Environmental precautions

Environmental precautions Avoid release to the environment. See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

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

Methods for Clean-Up Stop leak if possible without personal risk.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

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

Incompatible Materials None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Neon 7440-01-9	: See Appendix F: Minimal Oxygen Content	-	-

Appropriate engineering controls

Engineering Controls Showers. Eyewash stations. Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection For the gas: Eye protection not required, but recommended. For the liquid: Wear splash resistant safety goggles. Contact lenses should not be worn.

Skin and Body Protection For the gas: Protective gloves are not required, but recommended. For the liquid: Wear insulated gloves.

Respiratory Protection Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Gas	Odor	Odorless
Appearance	Colorless gas	Odor Threshold	Not determined
Color	Colorless		
<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>	
pH	No data available		
Melting point / freezing point	-249°C / -416.2°F		
Initial boiling point and boiling range	-246°C / -410.8°F		
Flash point	No data available		
Evaporation Rate	Not determined		
Flammability (Solid, Gas)	Not determined		
Flammability Limit in Air			
Upper flammability or explosive limits	No data available		
Lower flammability or explosive limits	No data available		
Vapor Pressure	760 mmHg		
Vapor Density	0.6964	(Air=1)	
Relative Density	Not determined		
Water Solubility	Not determined		
Solubility in other solvents	Not determined		
Partition Coefficient	Not determined		
Autoignition temperature	No data available		
Decomposition temperature	Not determined		
Kinematic viscosity	0.03181 cP		
Dynamic Viscosity	Not determined		
Explosive Properties	Not determined		
Oxidizing Properties	Not determined		

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization Will not polymerize.

Conditions to Avoid

Protect from physical damage and heat.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact	Avoid contact with eyes.
Skin Contact	Avoid contact with skin.
Inhalation	Do not inhale.
Ingestion	Do not ingest.

Component Information

Not determined

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms	Please see section 4 of this SDS for symptoms.
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity	Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
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Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document Not determined.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Not available

Persistence/Degradability

Not determined.

Bioaccumulation

There is no data for this product.

Mobility

Not determined

Other adverse effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT
UN/ID No UN1065
Proper Shipping Name Neon, compressed
Transport hazard class(es) 2.2

IATA
UN number or ID number UN1065
Proper Shipping Name Neon, compressed
Transport hazard class(es) 2.2

IMDG
UN number or ID number UN1065
Proper Shipping Name Neon, compressed
Transport hazard class(es) 2.2

15. REGULATORY INFORMATION

International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/NDSL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Neon	X	ACTIVE	X	X	X	X	X	X	X

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
- ENCS - Japan Existing and New Chemical Substances*
- IECSC - China Inventory of Existing Chemical Substances*
- KECL - Korean Existing and Evaluated Chemical Substances*
- PICCS - Philippines Inventory of Chemicals and Chemical Substances*
- AICS - Australian Inventory of Chemical Substances*

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard No
Fire hazard No
Sudden Release of Pressure Hazard Yes
Reactive Hazard No

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Neon 7440-01-9	X	X	X

16. OTHER INFORMATION

NFPA**Health hazards**

2

Flammability

0

Instability

0

Special hazards

-

HMIS**Health hazards**

-

Flammability

-

Physical hazards

-

Personal Protection

Not determined

Issue Date:

03-Aug-2022

Revision Date:

25-Jun-2024

Revision Note:

Regulatory review

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet