



# Material Safety Data Sheet

## 1. Product and Company Identification

Product name : **Neon**

Chemical formula : Ne

Synonyms : Neon, Compressed; Ne, UN 1065

Company : Specialty Gases of America, Inc  
6055 Brent Dr.  
Toledo, OH 43611

Telephone : 419-729-7732

Emergency : 800-424-9300

## 2. Composition/Information on Ingredients

Components	CAS Number	% Volume
Neon	7440-01-9	100%

## 3. Hazards Identification

### Emergency Overview

May cause difficulty in breathing.  
Containers may rupture or explode if exposed to heat.

### Potential Health Effects

Inhalation : Nausea, vomiting, difficulty breathing, irregular heartbeat, headache, dizziness, disorientation, mood swings, tingling sensation, loss of coordination, suffocation, convulsions, unconsciousness, coma.

Eye contact : Frostbite.

Skin contact : Frostbite.

Ingestion : Ingestion of harmful amounts is unlikely, frostbite.

Chronic Health Hazard : None known.

## 4. First Aid Measures

General advice : None.

Eye contact : Flush eyes with plenty of water.

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.

Ingestion : If a large amount is swallowed, 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.

Note to physician : For inhalation, consider oxygen.

## 5. Fire-Fighting Measures

Suitable extinguishing media : Carbon dioxide, regular dry chemical.  
Large fires: Use regular foam or flood with fine water spray.  
Specific hazards : Negligible fire hazard. Containers may rupture or explode if exposed to heat.  
Fire fighting : Move container from fire area if it can be done without risk. Cool containers with water spray until well after fire is out. Stay away from 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

Occupational spill/release : Stop leak if possible without personal risk. Keep unnecessary people away, isolate hazard area and deny entry. Stay upwind and keep out of low areas.  
Additional advice : None.

## 7. Handling and Storage

### Handling

Secure cylinder when using to protect from falling. Use suitable hand truck to move cylinders.

### Storage

Store in accordance with all current regulations and standards. Subject to storage regulations: U.S. OSHA 29 CFR 1910.101.

## 8. Exposure Controls / Personal Protection

### Engineering measures/Ventilation

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

### Personal protective equipment

Respiratory protection : Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from maximum to minimum. Consider warning properties before use.  
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.  
Hand protection : Wear insulated gloves.  
Eye protection : For the gas: Eye protection is 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.  
Skin and body protection : For the gas: Protective clothing is not required. For the liquid: Wear appropriate protective, cold insulating clothing.

## 9. Physical and Chemical Properties

Form : Gas.

Color	: Colorless.
Odor	: Odorless.
Molecular weight	: 20.179
Vapor pressure	: 760 mmHg @ -246°C
Vapor density	: 0.6964 (air = 1)
Specific gravity	: Not applicable.
Boiling point	: -411°F (-246°C)
Melting point	: -416°F (-249°C)
Water solubility	: Slightly soluble.
Evaporation rate	: Not applicable.

## 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.
Materials to avoid	: None.
Hazardous decomposition products	: None.

## 11. Toxicological Information

### Component Analysis – LD50/LC50

The components of this material have not been reviewed in various sources and no selected endpoints have been identified.

### Component Carcinogenicity

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

## 12. Ecological Information

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

## 13. Disposal Considerations

Waste from residues / unused products	: Dispose in accordance with all applicable regulations.
Contaminated packaging	: Return cylinder to supplier.

## 14. Transport Information

### DOT (US only)

Proper shipping name	: Neon, Compressed
Class	: 2.2
UN/ID No.	: UN1065
Labeling	: Non-flammable Gas

### Further information

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

## 15. Regulatory Information

### U.S. Federal Regulations

None of this product's components are listed under SARA Section 302/304 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), 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

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

### U.S. State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
NEON	7440-01-9	No	Yes	Yes	Yes	Yes	Yes

Not regulated under California Proposition 65

## 16. Other Information

Prepared by : Specialty Gases of America, Inc.

For additional information, please visit our website at [www.americangasgroup.com](http://www.americangasgroup.com).