

Veoplore**NOAL_M4610M20R2A
001**

Country : SE / Language : EN

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**Trade name : Veoplore
SDS no : NOAL_M4610M20R2A001**1.2. Relevant identified uses of the substance or mixture and uses advised against**Relevant identified uses : Medical applications.
Uses advised against : Consumer use.
Uses other than those listed above are not supported, contact your supplier for more information on other uses.**1.3. Details of the supplier of the safety data sheet****Company identification****Supplier**AIR LIQUIDE GAS AB
Pulpetgatan 20
215 37 Malmö - SWEDEN
T +46 40 38 10 00

E-Mail address (competent person) : eunordic-sds@airliquide.com

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number	Comment
Sweden	Giftinformationscentralen	Solna Strandväg 21 171 54 Solna	112 – begär Giftinformation	

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Physical hazards : Gases under pressure : Compressed gas H280

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

Hazard pictograms (CLP) :



GHS04

Signal word (CLP) : Warning
Hazard statements (CLP) : H280 - Contains gas under pressure; may explode if heated.
Precautionary statements (CLP) : P410+P403 - Protect from sunlight. Store in a well-ventilated place.
- Storage**2.3. Other hazards**

No additional information available

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SECTION 3: Composition/information on ingredients

3.1. Substances Not established.

3.2. Mixtures

Name	Product identifier	Composition [V-%]:	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nitrogen	CAS-No.: 7727-37-9 EC-No.: 231-783-9 EC Index-No.: --- REACH-no: *1	69.22	Press. Gas (Comp.), H280
Oxygen	CAS-No.: 7782-44-7 EC-No.: 231-956-9 EC Index-No.: 008-001-00-8 REACH-no: *1	21	Ox. Gas 1, H270 Press. Gas (Comp.), H280
Helium	CAS-No.: 7440-59-7 EC-No.: 231-168-5 EC Index-No.: --- REACH-no: *1	9.5	Press. Gas (Comp.), H280
Carbon monoxide	CAS-No.: 630-08-0 EC-No.: 211-128-3 EC Index-No.: 006-001-00-2 REACH-no: 01-2119480165-39	0.28	Flam. Gas 1B, H221 Press. Gas (Comp.), H280 Acute Tox. 3 (Inhalation:gas), H331 (ATE=1300 ppmv/4h) Repr. 1A, H360D STOT RE 1, H372

Full text of H- and EUH-statements: see section 16

Contains no other components or impurities which will influence the classification of the product.

*1: Listed in Annex IV / V REACH, exempted from registration.

*3: Registration not required: Substance manufactured or imported < 1t/y.

SECTION 4: First aid measures

4.1. Description of first aid measures


- Inhalation : Allow affected person to breathe fresh air.
Allow the victim to rest.
- Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water,
followed by warm water rinse.
- Eye contact : Rinse immediately with plenty of water.
Obtain medical attention if pain, blinking or redness persists.
- Ingestion : Rinse mouth.
Do NOT induce vomiting.
Obtain emergency medical attention.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

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SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Foam.
Dry powder.
Carbon dioxide.
Water spray.
Sand.
- Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

- Hazardous combustion products : Carbon monoxide.

5.3. Advice for firefighters

No additional information available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel : Evacuate unnecessary personnel
- For emergency responders : Ventilate area

6.2. Environmental precautions

- Prevent entry to sewers and public waters.
- Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

No additional information available

6.4. Reference to other sections

- See Section 8.
- Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No additional information available

7.2. Conditions for safe storage, including any incompatibilities

No additional information available


7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Carbon monoxide (630-08-0)	
DNEL: Derived no effect level (Workers)	
Acute - local effects, inhalation	117 ppm
Acute - systemic effects, inhalation	117 mg/m ³

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Long-term - local effects, inhalation		23 ppm	
Long-term - systemic effects, inhalation		23 mg/m ³	

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Individual protection measures, e.g. personal protective equipment

No additional information available

- Eye/face protection : Chemical goggles or safety glasses.
- Skin protection :
 - Hand protection : Wear protective gloves.
 - Other : Do not eat, drink or smoke during use.
- Respiratory protection : Wear appropriate mask.
- Thermal hazards : No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

- Physical state at 20°C / 101.3kPa : Gas
- Colour : Colourless

Odour : characteristic

pH : Not applicable

Melting point / Freezing point : Not applicable

Flash point : Not applicable

Flammability : Non flammable.

Explosive limits : Not available

Lower explosion limit : Not available

Upper explosion limit : Not available

Vapour pressure [20°C] : Not available

Vapour pressure [50°C] : Not available

Density : Not applicable

Vapour density : Not available

Relative density, liquid (water=1) : Not applicable

Water solubility : Solubility in water of component(s) of the mixture :
 • Helium: 1.5 mg/l • Carbon monoxide: 30 mg/l • Oxygen: 39 mg/l • Nitrogen: 20 mg/l

Partition coefficient n-octanol/water (Log Kow) : Not available

Auto-ignition temperature : Not available

Decomposition temperature : Not available

Viscosity, kinematic : Not applicable

Particle characteristics : Not applicable


9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

Reactivity

: This mixture contains components with the following reactivity : Can form explosive mixture with air. May react violently with oxidants. Violently oxidises organic material.

10.4. Conditions to avoid

Direct sunlight.
Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids.
Strong bases.

10.6. Hazardous decomposition products

fume.
Carbon monoxide.
Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

: No additional information available

Carbon monoxide (630-08-0)

LC50 Inhalation - Rat [ppm]	3760 ppm/1h (ADR) 1300 ppm/4h (CLP)
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Skin corrosion/irritation

: No additional information available

Serious eye damage/irritation

: No additional information available

Respiratory or skin sensitisation

: No additional information available

Germ cell mutagenicity

: No additional information available

Carcinogenicity

: No additional information available

Toxic for reproduction : Fertility

: No additional information available

Toxic for reproduction : unborn child

: No additional information available

STOT-single exposure

: No additional information available

STOT-repeated exposure

: No additional information available


Aspiration hazard

: No additional information available

11.2. Information on other hazards

Potential adverse human health effects and symptoms

: Based on available data, the classification criteria are not met.

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SECTION 12: Ecological information

12.1. Toxicity

EC50 48h - Daphnia magna [mg/l] : No data available.
 EC50 72h - Algae [mg/l] : No data available.
 LC50 96 h - Fish [mg/l] : No data available.

12.2. Persistence and degradability

Assessment : Not established.

12.3. Bioaccumulative potential

Assessment : Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Effect on the ozone layer : No additional information available
 Effect on global warming : No known effects from this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

List of hazardous waste codes (from Commission Decision 2000/532/EC as amended) : No additional information available

13.2. Additional information

No additional information available

SECTION 14: Transport information

14.1. UN number or ID number

In accordance with ADR / RID / IMDG / IATA / ADN
 UN-No. : 1956

14.2. UN proper shipping name


Transport by road/rail/inland waterways (ADR/RID/ADN) : COMPRESSED GAS, N.O.S.
 Transport by air (ICAO-TI / IATA-DGR) : Compressed gas, n.o.s.
 Transport by sea (IMDG) : COMPRESSED GAS, N.O.S.

14.3. Transport hazard class(es)

Labelling :



2.2 : Non-flammable, non-toxic gases.

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**Transport by road/rail/inland waterways
(ADR/RID/ADN)**

Class : 2
Classification code : 1A
Hazard identification number : 20
Tunnel Restriction : E - Passage forbidden through tunnels of category E

Transport by air (ICAO-TI / IATA-DGR)

Class / Div. (Sub. risk(s)) : 2.2

Transport by sea (IMDG)

Class / Div. (Sub. risk(s)) : 2.2
Emergency Schedule (EmS) - Fire : F-C
Emergency Schedule (EmS) - Spillage : S-V

14.4. Packing group

Transport by road/rail/inland waterways (ADR/RID/ADN) : Not established.
Transport by air (ICAO-TI / IATA-DGR) : Not established.
Transport by sea (IMDG) : Not established.

14.5. Environmental hazards

Transport by road/rail/inland waterways (ADR/RID/ADN) : None.
Transport by air (ICAO-TI / IATA-DGR) : None.
Transport by sea (IMDG) : None.

14.6. Special precautions for user

Packing Instruction(s)

Transport by road/rail/inland waterways (ADR/RID/ADN) : P200
Transport by air (ICAO-TI / IATA-DGR)
Passenger and Cargo Aircraft : 200.
Cargo Aircraft only : 200.
Transport by sea (IMDG) : P200

Special transport precautions : Avoid transport on vehicles where the load space is not separated from the driver's compartment.
Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.
- Ensure there is adequate ventilation.
- Ensure that containers are firmly secured.
- Ensure valve is closed and not leaking.
- Ensure valve protection device (where provided) is correctly fitted.
- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information


15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations

Restrictions on use : Contains no substance(s) listed on the REACH Candidate List

National regulations

No additional information available

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Further information : None.

Full text of H- and EUH-statements	
Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
Flam. Gas 1B	Flammable gases, Category 1B
Ox. Gas 1	Oxidising Gases, Category 1
Press. Gas (Comp.)	Gases under pressure : Compressed gas
Repr. 1A	Reproductive toxicity, Category 1A
STOT RE 1	Specific target organ toxicity – Repeated exposure, Category 1
H221	Flammable gas.
H270	May cause or intensify fire; oxidiser.
H280	Contains gas under pressure; may explode if heated.
H331	Toxic if inhaled.
H360D	May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.

The classification complies with : ATP 12

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