

Page : 1/15 Revised edition no : 5.0

Revision date : 2023-01-23 Supersedes version of : 2021-07-16

NOAL_1022 UFI: WRT2-M0A1-A00T-NVAQ

Country: NO / Language: EN

Carbogen

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : Carbogen, ALPHAGAZ MIX 5% CO2/ 95% O2

SDS no : NOAL_1022

UFI: WRT2-M0A1-A00T-NVAQ

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses : Industrial and professional uses. Perform risk assessment prior to use.

Industrial and professional use for chemical analysis, calibration, (routine) quality control,

laboratory use, under controlled conditions. Contact supplier for more information on uses.

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 NORWAY AS Drammensveien 64 B 3050 Mjøndalen - NORWAY T + 47 32 27 41 40 info.norway@airliquide.com

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

1.4. Emergency telephone number

Emergency telephone number : 112 / Giftinformasjon: + 47 22 59 13 00

Availability (24 / 7)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Physical hazards Oxidising Gases, Category 1 H270
Gases under pressure : Compressed gas H280

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :





GHS03

GHS04

Signal word (CLP) : Danger

Hazard statements (CLP) : H270 - May cause or intensify fire; oxidiser.

H280 - Contains gas under pressure; may explode if heated.



Page : 2/15
Revised edition no : 5.0
Revision date : 2023-01-23

Supersedes version of : 2021-07-16

NOAL_1022 UFI: WRT2-M0A1-A00T-NVAQ

Country: NO / Language: EN

Carbogen

Precautionary statements (CLP)

- Prevention : P220 - Keep away from clothing and other combustible materials.

P244 - Keep valves and fittings free from oil and grease.

Response
 P370+P376 - In case of fire: Stop leak if safe to do so.
 Storage
 P403 - Store in a well-ventilated place.

2.3. Other hazards

None.

Not classified as PBT or vPvB.

The substance/mixture has no endocrine disrupting properties.

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]
Oxygen	CAS-No.: 7782-44-7 EC-No.: 231-956-9 EC Index-No.: 008-001-00-8 REACH-no: *1	95	Ox. Gas 1, H270 Press. Gas (Comp.), H280
Carbon dioxide	CAS-No.: 124-38-9 EC-No.: 204-696-9 EC Index-No.: REACH-no: *1	5	Press. Gas (Liq.), H280

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

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

SECTION 4: First aid measures

4.1. Description of first aid measures

- Inhalation : Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep

victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing

stopped.

Skin contact
 Eye contact
 Adverse effects not expected from this product.
 Adverse effects not expected from this product.

- Ingestion : Ingestion is not considered a potential route of exposure.

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

See section 11.

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

None.

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

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



Page: 3/15

Revised edition no : 5.0
Revision date : 2023-01-23

Supersedes version of : 2021-07-16

Carbogen

NOAL_1022 UFI: WRT2-M0A1-A00T-NVAQ

Country: NO / Language: EN

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media

: Water spray or fog.

Product does not burn, use fire control measures appropriate for the surrounding fire.

- Unsuitable extinguishing media : Do not use water jet to extinguish.

5.2. Special hazards arising from the substance or mixture

Specific hazards

: Supports combustion.

Exposure to fire may cause containers to rupture/explode.

Hazardous combustion products

5.3. Advice for firefighters

Specific methods

: Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering

sewers and drainage systems. If possible, stop flow of product.

Use water spray or fog to knock down fire fumes if possible.

Move containers away from the fire area if this can be done without risk.

Special protective equipment for fire fighters

Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire

fighters.

: None.

Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full

face mask.

Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves

for firefighters.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : Act in accordance with local emergency plan.

Prevent from entering sewers, basements and workpits, or any place where its

accumulation can be dangerous.

Stay upwind.

See section 8 of the SDS for more information on personal protective equipment

For emergency responders : See section 5.3 of the SDS for more information.

6.2. Environmental precautions

Try to stop release.

6.3. Methods and material for containment and cleaning up

Ventilate area.

6.4. Reference to other sections

See also sections 8 and 13.

NO - en

3/15



Page : 4/15

Revised edition no : 5.0
Revision date : 2023-01-23

Supersedes version of : 2021-07-16

Carbogen

NOAL_1022 UFI: WRT2-M0A1-A00T-NVAQ

Country: NO / Language: EN

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Safe handling of the gas receptacle

Safe use of the product

: Do not breathe gas.

Avoid release of product into atmosphere.

The product must be handled in accordance with good industrial hygiene and safety procedures

Only experienced and properly instructed persons should handle gases under pressure.

Consider pressure relief device(s) in gas installations.

Ensure the complete gas system was (or is regularily) checked for leaks before use.

Do not smoke while handling product.

Keep equipment free from oil and grease. For more guidance, refer to the EIGA Doc. 33 -

Cleaning of Equipment for Oxygen Service downloadable at http://www.eiga.eu.

Use no oil or grease.

Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.

Use only oxygen approved lubricants and oxygen approved sealings.

Avoid suck back of water, acid and alkalis.

: Refer to supplier's container handling instructions.

Do not allow backfeed into the container.

Protect containers from physical damage; do not drag, roll, slide or drop.

When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders.

Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use.

If user experiences any difficulty operating valve discontinue use and contact supplier.

Never attempt to repair or modify container valves or safety relief devices.

Damaged valves should be reported immediately to the supplier.

Keep container valve outlets clean and free from contaminants particularly oil and water. Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.

Close container valve after each use and when empty, even if still connected to equipment.

Never attempt to transfer gases from one cylinder/container to another.

Never use direct flame or electrical heating devices to raise the pressure of a container.

Do not remove or deface labels provided by the supplier for the identification of the content of the container.

Suck back of water into the container must be prevented.

Open valve slowly to avoid pressure shock.

7.2. Conditions for safe storage, including any incompatibilities

Observe all regulations and local requirements regarding storage of containers.

Containers should not be stored in conditions likely to encourage corrosion.

Container valve guards or caps should be in place.

Containers should be stored in the vertical position and properly secured to prevent them from falling over.

Stored containers should be periodically checked for general condition and leakage.

Keep container below 50°C in a well ventilated place.

Segregate from flammable gases and other flammable materials in store.

Store containers in location free from fire risk and away from sources of heat and ignition.

Keep away from combustible materials.

7.3. Specific end use(s)

None.

NO - en

4/15



Carbogen

Page : 5/15

Revised edition no : 5.0
Revision date : 2023-01-23

Supersedes version of : 2021-07-16

NOAL_1022 UFI: WRT2-M0A1-A00T-NVAQ

Country: NO / Language: EN

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Carbon dioxide (124-38-9)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Carbon dioxide	
IOEL TWA	9000 mg/m³	
IOEL TWA [ppm]	5000 ppm	
Austria - Occupational Exposure Limits		
Local name	Kohlenstoffdioxid	
MAK (mg/m³)	9000 mg/m³	
MAK (OEL TWA) [ppm]	5000 ppm	
MAK (OEL STEL)	18000 mg/m³	
MAK (OEL STEL) [ppm]	10000 ppm	
Belgium - Occupational Exposure Limits		
Local name	Carbone (dioxyde de) # Koolstofdioxide	
OEL TWA	9131 mg/m³	
OEL TWA [ppm]	5000 ppm	
OEL STEL	54784 mg/m³	
OEL STEL [ppm]	30000 ppm	
Remark	A: La mention A signifie que l'agent libère un gaz ou une vapeur qui n'ont en eux-mêmes aucun effet physiologique mais peuvent diminuerm.Le taux d'oxygène dans l'air. Lorsque le taux d'oxygène descend en dessous de 17-18 % (vol/vol) le manque d'oxygène provoque des suffocations qu'aucun symptôme préalable n'annonce. # De vermelding A betekent dat dit agens gas of damp vrijgeeft dat of die op zich geen fysiologische werking heeft, maar het zuurstofgehalte in de lucht verlaagt. Wanneer het zuurstofgehalte daalt onder de 17-18 % (vol/vol), veroorzaakt het zuurstoftekort verstikking, die zich manifesteert zonder dat er een waarschuwing aan voorafgaat.	
Bulgaria - Occupational Exposure Limits		
Local name	Въглероден диоксид	
OEL TWA	9000 mg/m³	
OEL TWA [ppm]	5000 ppm	
Remark	• (Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност)	
Croatia - Occupational Exposure Limits		
Local name	Ugljikov dioksid	
GVI (OEL TWA) [1]	9000 mg/m³	



Page : 6/15

Revised edition no : 5.0 Revision date : 2023-01-23

Supersedes version of : 2021-07-16

Carbogen NOAL_1022 UFI: WRT2-M0A1-

A00T-NVAQ

Country: NO / Language: EN

	Country : NO / Language : EN	
GVI (OEL TWA) [2]	5000 ppm	
Remark	EU**	
Czech Republic - Occupational Exposure Limits		
Local name	Oxid uhli itý	
PEL (OEL TWA)	9000 mg/m³	
PEL (OEL TWA) [ppm]	5000 ppm	
NPK-P (OEL C)	45000 mg/m³	
NPK-P (OEL C) [ppm]	25020 ppm	
Denmark - Occupational Exposure Limits		
Local name	Carbondioxid (Kuldioxid; Kulsyre)	
OEL TWA [1]	9000 mg/m³	
OEL TWA [2]	5000 ppm	
Estonia - Occupational Exposure Limits		
Local name	Süsinikdioksiid	
OEL TWA	9000 mg/m³	
OEL TWA [ppm]	5000 ppm	
Finland - Occupational Exposure Limits		
Local name	Hiilidioksidi	
HTP (OEL TWA) [1]	9100 mg/m³	
HTP (OEL TWA) [2]	5000 ppm	
France - Occupational Exposure Limits		
Local name	Dioxyde de carbone	
VME (OEL TWA)	9000 mg/m³	
VME (OEL TWA) [ppm]	5000 ppm	
Remark	Valeurs règlementaires indicatives	
Germany - Occupational Exposure Limits (TRGS 90	00)	
Local name	Kohlenstoffdioxid	
AGW (OEL TWA) [1]	9100 mg/m³	
AGW (OEL TWA) [2]	5000 ppm	
Remark	DFG,EU	
Greece - Occupational Exposure Limits		
OEL TWA	9000 mg/m³	
OEL TWA [ppm]	5000 ppm	
OEL STEL	54000 mg/m³	



Page: 7/15

Revised edition no: 5.0 Revision date : 2023-01-23 Supersedes version of: 2021-07-16

NOAL 1022

UFI: WRT2-M0A1-A00T-NVAQ

Country: NO / Language: EN

Carbogen

Hungary - Occupational Exposure Limits SZÉN-DIOXID Local name AK (OEL TWA) 9000 mg/m³ Ireland - Occupational Exposure Limits Local name Carbon dioxide OEL TWA [1] 9000 mg/m³ OEL TWA [2] 5000 ppm OEL STEL 27000 mg/m³ OEL STEL [ppm] 15000 ppm **Italy - Occupational Exposure Limits** Anidride carbonica Local name OEL TWA 9000 mg/m³ OEL TWA [ppm] 5000 ppm Latvia - Occupational Exposure Limits Local name Oglekļadioksīds **OEL TWA** 9000 mg/m³ OEL TWA [ppm] 5000 ppm Lithuania - Occupational Exposure Limits Local name Anglies dioksidas IPRV (OEL TWA) 9000 mg/m³ IPRV (OEL TWA) [ppm] 5000 ppm **Luxembourg - Occupational Exposure Limits** Local name Dioxyde de carbone **OEL TWA** 9000 mg/m³ OEL TWA [ppm] 5000 ppm Malta - Occupational Exposure Limits Carbondioxide Local name **OEL TWA** 9000 mg/m³ OEL TWA [ppm] 5000 ppm **Netherlands - Occupational Exposure Limits** Local name Kooldioxide TGG-8u (OEL TWA) 9000 mg/m³ **Poland - Occupational Exposure Limits** Local name Ditlenek węgla 7



Page : 8/15

Revised edition no : 5.0

Revision date : 2023-01-23

Supersedes version of : 2021-07-16

Carbogen NOAL_1022 UFI: WRT2-M0A1A00T-NVAQ

Country: NO / Language: EN

	Country: NO / Language: EN
NDS (OEL TWA)	9000 mg/m³
NDSCh (OEL STEL)	27000 mg/m³
Portugal - Occupational Exposure Limits	•
Local name	Dióxido de carbono
OEL TWA [ppm]	5000 ppm
OEL STEL [ppm]	30000 ppm
Romania - Occupational Exposure Limits	
Local name	Bioxid de carbon
OEL TWA	9000 mg/m³
OEL TWA [ppm]	5000 ppm
Slovenia - Occupational Exposure Limits	
Local name	ogljikov dioksid
OEL TWA	9000 mg/m³
OEL TWA [ppm]	5000 ppm
Spain - Occupational Exposure Limits	
Local name	Dióxido de carbono
VLA-ED (OEL TWA) [1]	9150 mg/m³
VLA-ED (OEL TWA) [2]	5000 ppm
Remark	VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo. Todos estos agentes químicos figuran al menos en una de las directivas de valores límite indicativos publicadas hasta ahora (ver Anexo C. Bibliografía). Los estados miembros disponen de un tiempo fijado en dichas directivas para su transposición a los valores límites de cada país miembro. Una vez adoptados, estos valores tienen la misma validez que el resto de los valores adoptados por el país).
Sweden - Occupational Exposure Limits	
Local name	Koldioxid
NGV (OEL TWA)	9000 mg/m³
NGV (OEL TWA) [ppm]	5000 ppm
KTV (OEL STEL)	18000 mg/m³
KTV (OEL STEL) [ppm]	10000 ppm
United Kingdom - Occupational Exposure Limits	
Local name	Carbon dioxide
WEL TWA (OEL TWA) [1]	9150 mg/m³
WEL TWA (OEL TWA) [2]	5000 ppm
WEL STEL (OEL STEL)	27400 mg/m³
WEL STEL (OEL STEL) [ppm]	15000 ppm



Page : 9/15

Revised edition no : 5.0

Revision date : 2023-01-23

Supersedes version of : 2021-07-16

Carbogen

NOAL_1022 UFI: WRT2-M0A1-A00T-NVAQ

Country: NO / Language: EN

Iceland - Occupational Exposure Limits		
Local name	Koldíoxíð (koltvísýringur, kolsýra)	
OEL TWA	9000 mg/m³	
OEL TWA [ppm]	5000 ppm	
Norway - Occupational Exposure Limits		
Local name	Karbondioksid	
Grenseverdi (OEL TWA) [1]	9000 mg/m³	
Grenseverdi (OEL TWA) [2]	5000 ppm	
Switzerland - Occupational Exposure Limits		
Local name	Kohlendioxid	
MAK (OEL TWA) [1]	9000 mg/m³	
MAK (OEL TWA) [2]	5000 ppm	
Remark	Asphyxie - NIOSH	
USA - ACGIH - Occupational Exposure Limits		
Local name	Carbon dioxide	
ACGIH OEL TWA [ppm]	5000 ppm	
ACGIH OEL STEL [ppm]	30000 ppm	
Remark (ACGIH)	Asphyxia	

DNEL (Derived-No Effect Level) : None available.

PNEC (Predicted No-Effect Concentration) : None available.

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Systems under pressure should be regularily checked for leakages. Ensure exposure is below occupational exposure limits (where available). Gas detectors should be used when oxidising gases may be released. Consider the use of a work permit system e.g. for maintenance activities.

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

A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk.

The following recommendations should be considered:

PPE compliant to the recommended EN/ISO standards should be selected.

: Wear safety glasses with side shields.

Standard EN 166 - Personal eye-protection - specifications.

Skin protection

· Eye/face protection

- Hand protection : Wear working gloves when handling gas containers.

Standard EN 388 - Protective gloves against mechanical risk, performance level 1 or higher.

- Other : Wear safety shoes while handling containers.

Standard EN ISO 20345 - Personal protective equipment - Safety footwear.



Page : 10/15
Revised edition no : 5.0
Revision date : 2023-01-23

Supersedes version of : 2021-07-16

NOAL_1022 UFI: WRT2-M0A1-A00T-NVAQ

Country: NO / Language: EN

10/15

Carbogen

· Respiratory protection

: Gas filters may be used if all surrounding conditions e.g. type and concentration of the

contaminant(s) and duration of use are known.

Use gas filters with full face mask, where exposure limits may be exceeded for a short-term

period, e.g. connecting or disconnecting containers.

Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full

ace mask.

When indicated by a risk assessment, Respiratory Protective Equipment must be used. The selection of the Respiratory Protective Device (RPD) must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected RPD.

Gas filters do not protect against oxygen deficiency.

Standard EN 14387 - Gas filter(s), combined filter(s) and standard EN136, full face masks . Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems.

: None in addition to the above sections.

8.2.3. Environmental exposure controls

Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Thermal hazards

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

Odour threshold is subjective and inadequate to warn of overexposure.

pH : Not applicable for gases and gas mixtures.

Melting point / Freezing point : Not applicable for gas mixtures.

Boiling point : Not applicable for gas mixtures.

Flash point : Not applicable for gases and gas mixtures.

Flammability : Non flammable.

Explosive limits : Non flammable.

Lower explosion limit : Not available

Upper explosion limit : Not available

Vapour pressure [20°C] : Not applicable.

Vapour pressure [50°C] : Not applicable.

Density : Not applicable

Vapour density : Not applicable for gases and gas mixtures.

Relative density, liquid (water=1) : Not applicable Relative density, gas (air=1) : Heavier than air.

Water solubility : Solubility in water of component(s) of the mixture :

• Carbon dioxide: 2000 mg/l Completely soluble. • Oxygen: 39 mg/l

Partition coefficient n-octanol/water (Log Kow) : Not applicable for gas mixtures.

Auto-ignition temperature : Non flammable.

Decomposition temperature : Not applicable.

Viscosity, kinematic : No reliable data available.

Particle characteristics : Not applicable for gases and gas mixtures.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosive properties : Not applicable. Oxidising properties : Oxidiser.



Page: 11/15 Revised edition no: 5.0

Revision date: 2023-01-23 Supersedes version of: 2021-07-16

Carbogen

NOAL 1022 UFI: WRT2-M0A1-A00T-NVAQ

Country: NO / Language: EN

9.2.2. Other safety characteristics

Molar mass : Not applicable for gas mixtures.

Evaporation rate Not applicable for gases and gas mixtures.

Other data : Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below

ground level.

SECTION 10: Stability and reactivity

10.1. Reactivity

No reactivity hazard other than the effects described in sub-sections below.

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

Violently oxidises organic material.

This mixture contains components with the following reactivity: Violently oxidises organic Reactivity

material.

10.4. Conditions to avoid

Avoid moisture in installation systems.

Water, humidity.

10.5. Incompatible materials

May react violently with combustible materials. May react violently with reducing agents.

Keep equipment free from oil and grease. For more guidance, refer to the EIGA Doc. 33 -

Cleaning of Equipment for Oxygen Service downloadable at http://www.eiga.eu. Consider the potential toxicity hazard due to the presence of chlorinated or fluorinated

polymers in high pressure (> 30 bar) oxygen lines in case of combustion.

For additional information on compatibility refer to ISO 11114.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not

be produced.

SECTION 11: Toxicological information

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

: Toxicological effects not expected from this product if occupational exposure limit values are Acute toxicity

not exceeded.

: No known effects from this product. Skin corrosion/irritation : No known effects from this product. Serious eye damage/irritation : No known effects from this product. Respiratory or skin sensitisation : No known effects from this product. Germ cell mutagenicity : No known effects from this product. Carcinogenicity : No known effects from this product. Toxic for reproduction: Fertility

: No known effects from this product. Toxic for reproduction: unborn child : No known effects from this product. STOT-single exposure

: No known effects from this product. STOT-repeated exposure



Page: 12/15 Revised edition no: 5.0

Revision date: 2023-01-23 Supersedes version of: 2021-07-16

NOAL 1022 UFI: WRT2-M0A1-A00T-NVAQ

Country: NO / Language: EN

Carbogen

: Not applicable for gases and gas mixtures. **Aspiration hazard**

11.2. Information on other hazards

Other information : The substance/mixture has no endocrine disrupting properties.

SECTION 12: Ecological information

12.1. Toxicity

Assessment : No ecological damage caused by this product.

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 : No ecological damage caused by this product.

12.3. Bioaccumulative potential

Assessment : No data available.

12.4. Mobility in soil

: Because of its high volatility, the product is unlikely to cause ground or water pollution. Assessment

Partition into soil is unlikely.

12.5. Results of PBT and vPvB assessment

: Not classified as PBT or vPvB. Assessment

12.6. Endocrine disrupting properties

The substance/mixture has no endocrine disrupting properties.

12.7. Other adverse effects

Other adverse effects : No known effects from this product.

Effect on the ozone layer : None.

Effect on global warming : Contains greenhouse gas(es).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Contact supplier if guidance is required.

May be vented to atmosphere in a well ventilated place.

Do not discharge into any place where its accumulation could be dangerous. Ensure that the emission levels from local regulations or operating permits are not

exceeded.

Refer to the EIGA code of practice Doc.30 "Disposal of Gases", downloadable at

16 05 04 *: Gases in pressure containers (including halons) containing hazardous

http://www.eiga.org for more guidance on suitable disposal methods.

Return unused product in original container to supplier.

List of hazardous waste codes (from Commission

substances

Decision 2000/532/EC as amended)

13.2. Additional information

External treatment and disposal of waste should comply with applicable local and/or

national regulations.

NO - en

12/15



Page : 13/15

Revised edition no : 5.0

Revision date : 2023-01-23

Supersedes version of : 2021-07-16

NOAL_1022 UFI: WRT2-M0A1-A00T-NVAQ

Country: NO / Language: EN

Carbogen

SECTION 14: Transport information

14.1. UN number or ID number

In accordance with ADR / RID / IMDG / IATA / ADN

UN-No. : 3156

14.2. UN proper shipping name

Transport by road/rail (ADR/RID) : COMPRESSED GAS, OXIDIZING, N.O.S. (Oxygen, Carbon dioxide)

Transport by air (ICAO-TI / IATA-DGR) : Compressed gas, oxidizing, n.o.s. (Oxygen, Carbon dioxide)

Transport by sea (IMDG) : COMPRESSED GAS, OXIDIZING, N.O.S. (Oxygen, Carbon dioxide)

14.3. Transport hazard class(es)

Labelling

2.2: Non-flammable, non-toxic gases.

5.1: Oxidizing substances.

Transport by road/rail (ADR/RID)

Class : 2
Classification code : 10
Hazard identification number : 25

Tunnel Restriction : E - Passage forbidden through tunnels of category E

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

Class / Div. (Sub. risk(s)) : 2.2 (5.1)

Transport by sea (IMDG)

 Class / Div. (Sub. risk(s))
 : 2.2 (5.1)

 Emergency Schedule (EmS) - Fire
 : F-C

 Emergency Schedule (EmS) - Spillage
 : S-W

14.4. Packing group

Transport by road/rail (ADR/RID) : 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 (ADR/RID) : 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 (ADR/RID) : P200

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

Passenger and Cargo Aircraft : 200.
Cargo Aircraft only : 200.
Transport by sea (IMDG) : P200



Page : 14/15
Revised edition no : 5.0

Revision date : 2023-01-23 Supersedes version of : 2021-07-16

Carbogen

NOAL_1022 UFI: WRT2-M0A1-A00T-NVAQ

Country: NO / Language: EN

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.
Before transporting product containers:
- Ensure there is adequate ventilation.

- Ensure that containers are firmly secured.
- Ensure valve is closed and not leaking.
- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
- Ensure valve protection device (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 : None.

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

National legislation : Ensure all national/local regulations are observed.

Seveso Directive: 2012/18/EU (Seveso III) : Covered.

National regulations

Ensure all national/local regulations are observed.

France		
Occupational diseases		
Code	Description	
RG 66	Occupational rhinitis and asthma	

Germany

Water hazard class (WGK) : WGK nwg, Non-hazardous to water (Classification according to AwSV, Annex 1)

National Rules and Recommendations : [German regulations] BetriebssicherheitsV mit TRBSen insbesondere TRBS 3145 / TRGS

725 Ortsbewegliche Druckgasbehälter", TRBS 2141, BGRegel 500 Teil 2.33: "Umgang mit Gasen", GefahrstoffV mit Technischen Regeln Gefährliche Stoffe TRGS insbesondere TRGS 407 "Tätigkeiten mit Gasen - Gefährdungsbeurteilung", TRGS 400, 500, 510, 900."

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are listed SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed SZW-lijst van reprotoxische stoffen – : None of the components are listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Switzerland

Storage class (LK) : LK 2 - Liquefied or pressurized gases

15.2. Chemical safety assessment

A CSA does not need to be carried out for this product.



Page : 15/15
Revised edition no : 5.0

Revision date : 2023-01-23 Supersedes version of : 2021-07-16

Carbogen

NOAL_1022 UFI: WRT2-M0A1-A00T-NVAQ

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SECTION 16: Other information

Indication of changes

: Safety data sheet in accordance with commission regulation (EU) No 2020/878.

Abbreviations and acronyms

: ATE - Acute Toxicity Estimate

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation

(EC) No 1907/2006

EINECS - European Inventory of Existing Commercial Chemical Substances

CAS# - Chemical Abstract Service number PPE - Personal Protection Equipment

LC50 - Lethal Concentration to 50 % of a test population

RMM - Risk Management Measures

PBT - Persistent, Bioaccumulative and Toxic vPvB - Very Persistent and Very Bioaccumulative

STOT- SE: Specific Target Organ Toxicity - Single Exposure

CSA - Chemical Safety Assessment

EN - European Standard UN - United Nations

ADR - European Agreement concerning the International Carriage of Dangerous Goods by

Road

IATA - International Air Transport Association

IMDG code - International Maritime Dangerous Goods

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

WGK - Water Hazard Class

STOT - RE: Specific Target Organ Toxicity - Repeated Exposure

UFI: Unique Formula Identifier

Training advice Further information : None.

Classification using data from databases maintained by the European Industrial Gases Association (EIGA). Data is maintained in EIGA doc 169: 'Classification and Labelling Guide', downloadable at: http://www.eiga.eu.

Classification in accordance with the procedures and calculation methods of Regulation

(EC) 1272/2008 (CLP).

Full text of H- and EUH-statements		
H270	May cause or intensify fire; oxidiser.	
H280	Contains gas under pressure; may explode if heated.	
Ox. Gas 1	Oxidising Gases, Category 1	
Press. Gas (Comp.)	Gases under pressure : Compressed gas	
Press. Gas (Liq.)	Gases under pressure : Liquefied gas	

DISCLAIMER OF LIABILITY

: Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

Details given in this document are believed to be correct at the time of going to press. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

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