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

1.1 Product identifier

Product name: CO 2 %;N2 98 %

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

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

Uses advised against Consumer use.

1.3 Details of the supplier of the safety data sheet

Supplier

Linde Gas Italy S.r.l. Telephone: + 39 02 903731 Via G. Rossa, 3

E-mail: SDS@it.linde-gas.com

1.4 Emergency telephone number: +39 02 66101029 - Poison Information Centre, Niguarda Hospital

SECTION 2: Hazards identification

I-20010 Arluno (MI)

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 as amended.

Physical Hazards

Gases under pressure Compressed gas H280: Contains gas under pressure; may explode if

heated.

Health Hazards

Toxic to reproduction Category 1A H360D: May damage the unborn child.

Specific Target Organ Toxicity - Category 2 H373: May cause damage to organs through prolonged

Repeated Exposure or repeated exposure.

2.2 Label Elements

Contains: Carbon monoxide



Signal Words: Danger

THE LINDE GROUP



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Hazard Statement(s): H280: Contains gas under pressure; may explode if heated.

H360D: May damage the unborn child.

H373: May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention: P202: Do not handle until all safety precautions have been read and

understood.

P260: Do not breathe gas/vapors.

Response: P308+P313: IF exposed or concerned: Get medical advice/attention.

Storage: P403: Store in a well-ventilated place.

Disposal: None.

Supplemental label information

Restricted to professional users.

2.3 Other hazards: None.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	Chemical	Concentration	CAS-No.	EC No.	REACH Registration	Notes
	formula				No.	
Carbon monoxide	CO	2%	630-08-0	211-128-3	01-2119480165-39	#
Nitrogen	N2	98%	7727-37-9	231-783-9	Listed in Annex IV/V of Regulation (EC) No 1907/2006 (REACH), exempted from registration.	

The concentrations of the components in the SDS header, product name on page one and in section 3.2 are in mol due to regulatory requirements. All concentrations are nominal.

Classification

Chemical name	Classification		Notes
Carbon monoxide	CLP:	Repr. 1A;H360D, Acute Tox. 3;H331, Flam. Gas 1;H220, Press. Gas Compr. Gas;H280, STOT RE 1;H372	
Nitrogen	CLP:	Press. Gas Compr. Gas;H280	

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

^{##} This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.





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SECTION 4: First aid measures

General: Remove victim to uncontaminated area wearing self contained breathing

apparatus. Keep victim warm and rested. Call a doctor. Apply artificial respiration if

breathing stopped.

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. Apply artificial respiration if

breathing stopped.

Eye contact: Adverse effects not expected from this product.

Skin Contact: 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:

Danger of serious damage to health by prolonged exposure. Causes damage to

organs.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: Danger of serious damage to health by prolonged exposure. Causes damage to

organs.

Treatment: Get immediate medical advice/attention.

SECTION 5: Firefighting measures

General Fire Hazards: Heat may cause the containers to explode.

5.1 Extinguishing media

Suitable extinguishing media: Use water spray to reduce vapors or divert vapor cloud drift. Water. Dry powder.

Foam. Carbon Dioxide.

Unsuitable extinguishing

media:

None.

5.2 Special hazards arising from the

substance or mixture:

No data available.

5.3 Advice for firefighters

Special fire fighting

procedures:

In case of fire: Stop leak if safe to do so. Keep run-off water out of sewers and water sources. Dike for water control. Continue water spray from protected position until container stays cool. Use extinguishants to contain the fire. Isolate

the source of the fire or let it burn out.



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Special protective equipment for fire-fighters:

Gas tight chemically protective clothing (Type 1) in combination with self

contained breathing apparatus.

Guideline: EN 943-2 Protective clothing against liquid and gaseous chemicals, aerosols and solid particles. Performance requirements for gas-tight (Type 1)

chemical protective suits for emergency teams (ET)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Evacuate area. Provide adequate ventilation. Monitor the concentration of the released product. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. EN 137 Respiratory protective devices - Self-contained open-circuit compressed air breathing apparatus with full face mask - Requirements, testing, marking.

6.2 Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Reduce vapour with fog or fine water spray. Keep run-off water out of sewers and water sources. Dike for water

control.

6.3 Methods and material for containment and cleaning up:

Provide adequate ventilation.

6.4 Reference to other sections:

Refer to sections 8 and 13.





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SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

Only experienced and properly instructed persons should handle gases under pressure. Avoid exposure - obtain special instructions before use. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Installation of a cross purge assembly between the container and the regulator is recommended. Excess pressure must be vented through an appropriate scrubber system. Refer to supplier's handling instructions. The substance must be handled in accordance with good industrial hygiene and safety procedures. Protect containers from physical damage; do not drag, roll, slide or drop. Do not remove or deface labels provided by the supplier for the identification of the container contents. When moving containers, even for short distances, use appropriate equipment eq. trolley, hand truck, fork truck etc. Secure cylinders in an upright position at all times, close all valves when not in use. Provide adequate ventilation. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Avoid suckback of water, acid and alkalis. Keep container below 50°C in a well ventilated place. Observe all regulations and local requirements regarding storage of containers. When using do not eat, drink or smoke. Store in accordance with. Never use direct flame or electrical heating devices to raise the pressure of a container. 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. Damaged valves should be reported immediately to the supplier Close container valve after each use and when empty, even if still connected to equipment. Never attempt to repair or modify container valves or safety relief devices. Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment. Keep container valve outlets clean and free from contaminates particularly oil and water. If user experiences any difficulty operating container valve discontinue use and contact supplier. Never attempt to transfer gases from one container to another. Container valve guards or caps should be in place.

7.2 Conditions for safe storage, including any incompatibilities:

Containers should not be stored in conditions likely to encourage corrosion. Keep away from food, drink and animal feeding stuffs. Stored containers should be periodically checked for general conditions and leakage. Container valve guards or caps should be in place. Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible material.

7.3 Specific end use(s): None.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

Chemical name	Туре	Exposure Limit Values	Source
Carbon monoxide	TWA	25 ppm	Italy. Occupational Exposure Limits (2009)





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DNEL-Values

Critical component	Туре	Value	Remarks
Carbon monoxide	Worker - inhalative, long-	23 mg/m3	-
	term - systemic		
	Worker - inhalative, short-	117 mg/m3	-
	term - systemic		
	Worker - inhalative, long-	23 mg/m3	-
	term - local		
	Worker - inhalative, short-	117 mg/m3	-
	term - local		

PNEC-Values

Critical component	Туре	Value	Remarks
Carbon monoxide			PNEC not available.

8.2 Exposure controls

Appropriate engineering controls:

Consider a work permit system e.g. for maintenance activities. Ensure adequate air ventilation. Provide adequate general and local exhaust ventilation. Keep concentrations well below occupational exposure limits. Systems under pressure should be regularly checked for leakages. Product to be handled in a closed system and under strictly controlled conditions. Only use permanent leak tight installations (e.g. welded pipes). Do not eat, drink or smoke when using the product.

Individual protection measures, such as personal protective equipment

General information:

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. Keep self contained breathing apparatus readily available for emergency use. Keep suitable chemically resistant protective clothing readily available for emergency use. Personal protective equipment for the body should be selected based on the task being performed and the risks involved. Protect eyes, face and skin from contact with product. Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment.

Eye/face protection:

Wear eye protection to EN 166 when using gases. Guideline: EN 166 Personal Eye Protection.

Skin protection

Hand Protection:

Wear working gloves while handling containers

Guideline: EN 388 Protective gloves against mechanical risks.

Chemically resistant gloves complying with EN 374 should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Guideline: EN 374-1/2/3 Protective gloves against chemicals and micro-

organisms.

Body protection:

No special precautions.





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Other: Wear safety shoes while handling containers

Guideline: ISO 20345 Personal protective equipment - Safety footwear.

Respiratory Protection: Reference should be made to European Standard EN 689 for methods for the

assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances. 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.

Thermal hazards: No precautionary measures are necessary.

Hygiene measures: Obtain special instructions before use. Specific risk management measures are not

required beyond good industrial hygiene and safety procedures. Do not eat, drink

or smoke when using the product.

Environmental exposure

controls:

For waste disposal, see section 13 of the SDS.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: Gas

Form: Compressed gas
Color: C0: Colorless
N2: Colorless

N2: Colorless

Odor: C0: Odorless

N2: Odorless gas

Odor Threshold: Odor threshold is subjective and is inadequate to warn of over

exposure.

pH: not applicable.
Melting Point: No data available.
Boiling Point: No data available.
Sublimation Point: not applicable.
Critical Temp. (°C): No data available.

Flash Point:Evaporation Rate:
Not applicable to gases and gas mixtures.
Not applicable to gases and gas mixtures.

Flammability (solid, gas): This product is not flammable.

Flammability Limit - Upper (%): not applicable.
Flammability Limit - Lower (%): not applicable.

Vapor pressure:No reliable data available.Vapor density (air=1):0,99 (calculated) (15 °C)Polative densityNo data available.

Relative density: No data available.

Solubility(ies)





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Solubility in Water:

Partition coefficient (n-octanol/water):

Autoignition Temperature:

Decomposition Temperature:

No data available.

Not known.

Not known.

Viscosity

Kinematic viscosity:No data available.Dynamic viscosity:No data available.Explosive properties:Not applicable.Oxidizing properties:not applicable.

9.2 Other information: None.

SECTION 10: Stability and reactivity

10.1 Reactivity: No reactivity hazard other than the effects described in sub-section below.

10.2 Chemical Stability: Stable under normal conditions.

10.3 Possibility of hazardous

reactions:

No data available.

10.4 Conditions to avoid: Avoid moisture in the installation.

10.5 Incompatible Materials: Moisture. For material compatibility see latest version of 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

General information: Carbon monoxide: Has been shown to produce adverse effects to the

cardiovascular, central nervous, and reproductive systems in laboratory animals

and chronically exposed humans.

11.1 Information on toxicological effects

Acute toxicity - Oral

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

Acute toxicity - Dermal

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





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Acute toxicity - Inhalation

Product ATEmix (4 h): > 20000 ppm Based on available data, the classification criteria are

not met.

Component Information

Carbon monoxide LC 50 (Rat, 4 h): 1300 ppm

LC 50 (Rat, 1 h): 3760 ppm

Repeated dose toxicity **Component Information**

> Carbon monoxide LOAEL (Rat(Female), Inhalation, 72 Weeks): 200 ppm(m) Inhalation Experimental

> > result, Key study

LOAEC (Rat, Inhalation): 200 ppm (Target Organ(s): Respiratory system)

Skin Corrosion/Irritation

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

Component Information

Carbon monoxide Not classified as an irritant.

Serious Eye Damage/Eye Irritation

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

Component Information

Carbon monoxide Not classified as an irritant.

Respiratory or Skin Sensitization

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

Component Information

Carbon monoxide No known effects from this product.

Germ Cell Mutagenicity

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

Component Information

Carbon monoxide There is no evidence of mutagenic potential.

Carcinogenicity

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





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Component Information

Carbon monoxide No evidence of carcinogenic effects.

Reproductive toxicity

Product May damage fertility or the unborn child.

Component Information

Carbon monoxide May damage fertility or the unborn child.

Reproductive toxicity (Fertility)
Component Information

Carbon monoxide NOAEC (embryotoxicity): 65 ppm

Developmental toxicity (Teratogenicity)

Component Information

Carbon monoxide LOAEC: 125 ppm

Specific Target Organ Toxicity - Single Exposure

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

Component Information

Carbon monoxide Route of Exposure: Inhalation

Target Organ(s): Blood

Causes damage to red blood cells (haemolytic poison). Carbon monoxide binds reversibly to haemoglobin (Hb) to form carboxyhaemoglobin (CoHb), reducing

the capacity of the blood to transport oxygen.

Specific Target Organ Toxicity - Repeated Exposure

Product May cause damage to organs through prolonged or repeated exposure.

Component Information

Carbon monoxide Route of Exposure: Inhalation

Target Organ(s): Heart

Risk of serious health injuries in case of long term exposure.

Aspiration Hazard

Product Not applicable to gases and gas mixtures..



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SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Product No ecological damage caused by this product.

Acute toxicity - Fish
Component Information

Carbon monoxide LC 50 (Fish (no species mentioned)): 672,6 mg/l Remarks: QSAR QSAR, Supporting

study

Acute toxicity - Aquatic Invertebrates

Component Information

Carbon monoxide LC 50 (48 h): 307,5 mg/l Remarks: QSAR QSAR, Supporting study

12.2 Persistence and Degradability

Product Not applicable to gases and gas mixtures..

Component Information

Carbon monoxide Will not undergo hydrolysis.

Biodegradation

Component Information

Carbon monoxide Not readily biodegradable. Inorganic compound.

12.3 Bioaccumulative potential

Product The subject product is expected to biodegrade and is not expected to persist for

long periods in an aquatic environment.

Component Information

Carbon monoxide Because of the low log Kow, accumulation in organisms is not expected.

12.4 Mobility in soil

Product Because of its high volatility, the product is unlikely to cause ground or water

pollution.

Component Information

Carbon monoxide Because of its high volatility, the product is unlikely to cause ground or water

pollution.





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12.5 Results of PBT and vPvB

assessment

Product Not classified as PBT or vPvB.

12.6 Other adverse effects: No ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: Avoid discharges to atmosphere. Consult supplier for specific recommendations.

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

> http://www.eiga.org) for more guidance on suitable disposal methods. Dispose of container via supplier only. Discharge, treatment, or disposal may be subject to

national, state, or local laws.

European Waste Codes

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

dangerous substances.

SECTION 14: Transport information

ADR

14.1 UN Number: UN 1956

14.2 UN Proper Shipping Name: COMPRESSED GAS, N.O.S.(Nitrogen, Carbon Monoxide)

14.3 Transport Hazard Class(es)

Class: 2 2.2 Label(s): Hazard No. (ADR): 20 Tunnel restriction code: (E)

14.4 Packing Group:

14.5 Environmental hazards: not applicable

14.6 Special precautions for user:

RID

14.1 UN Number: UN 1956

14.2 UN Proper Shipping Name COMPRESSED GAS, N.O.S.(Nitrogen, Carbon Monoxide)

14.3 Transport Hazard Class(es)

Class: 2 Label(s): 2.2 14.4 Packing Group:

14.5 Environmental hazards: not applicable

14.6 Special precautions for user:





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IMDG

14.1 UN Number: UN 1956

COMPRESSED GAS, N.O.S. (Nitrogen, Carbon Monoxide) 14.2 UN Proper Shipping Name:

14.3 Transport Hazard Class(es)

2.2 Class: Label(s): 2.2 EmS No.: F-C, S-V

14.3 Packing Group:

14.5 Environmental hazards: not applicable

14.6 Special precautions for user:

IATA

14.1 UN Number: UN 1956

14.2 Proper Shipping Name: Compressed gas, n.o.s.(Nitrogen, Carbon Monoxide)

14.3 Transport Hazard Class(es):

2.2 Class: 2.2 Label(s):

14.4 Packing Group:

14.5 Environmental hazards: not applicable

14.6 Special precautions for user:

Other information

Passenger and cargo aircraft: Allowed. Cargo aircraft only: Allowed.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: not applicable

Additional identification: 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 that they are firmly secured. Ensure that the container valve is closed and not leaking. Container valve guards or caps should be in place. Ensure

adequate air ventilation.

SECTION 15: Regulatory information

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

EU Regulations

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

Chemical name	CAS-No.	Concentration
Carbon monoxide	630-08-0	1,0 - 10%

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Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:

Chemical name	CAS-No.	Concentration
Carbon monoxide	630-08-0	1,0 - 10%

Directive 96/61/EC: concerning integrated pollution prevention and control (IPPC): Article 15, European Pollution Emission Registry (EPER):

Chemical name	CAS-No.	Concentration
Carbon monoxide	630-08-0	1,0 - 10%

Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances:

Chemical name	CAS-No.	Concentration
Carbon monoxide	630-08-0	1,0 - 10%

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

CAS-No.	Concentration
630-08-0	1,0 - 10%

National Regulations

Council Directive 89/391/EEC on the introduction of measures to encourage improvements in the safety and health of workers at work Directive 89/686/EEC on personal protective equipment Only products that comply with the food regulations (EC) No. 1333/2008 and (EU) No. 231/2012 and are labelled as such may be used as food additives.

This Safety Data Sheet has been produced to comply with Regulation (EU) 2015/830.

15.2 Chemical safety assessment: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: Not relevant.





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Key literature references and sources for data:

Various sources of data have been used in the compilation of this SDS, they include

but are not exclusive to:

Agency for Toxic Substances and Diseases Registry (ATSDR)

(http://www.atsdr.cdc.gov/).

European Chemical Agency: Guidance on the Compilation of Safety Data Sheets.

European Chemical Agency: Information on Registered Substances http://apps.echa.europa.eu/registered/registered-sub.aspx#search

European Industrial Gases Association (EIGA) Doc. 169 Classification and Labelling

guide.

International Programme on Chemical Safety (http://www.inchem.org/) ISO 10156:2010 Gases and gas mixtures - Determination of fire potential and

oxidizing ability for the selection of cylinder valve outlets.

Matheson Gas Data Book, 7th Edition.

National Institute for Standards and Technology (NIST) Standard Reference Database Number 69.

The ESIS (European chemical Substances 5 Information System) platform of the former European Chemicals Bureau (ECB) ESIS (http://ecb.jrc.ec.europa.eu/esis/).

The European Chemical Industry Council (CEFIC) ERICards.

United States of America's National Library of Medicine's toxicology data network

TOXNET (http://toxnet.nlm.nih.gov/index.html)

Threshold Limit Values (TLV) from the American Conference of Governmental

Industrial Hygienists (ACGIH).

Substance specific information from suppliers.

Details given in this document are believed to be correct at the time of publication.

Wording of the H-statements in section 2 and 3

H220 Extremely flammable gas.

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.
H373 May cause damage to organs through prolonged or repeated

exposure.

Training information: Users of breathing apparatus must be trained. Ensure operators understand the

toxicity hazard.

Classification according to Regulation (EC) No 1272/2008 as amended.

Repr. 1A, H360D STOT RE 2, H373

Press. Gas Compr. Gas, H280

Other information: Before using this product in any new process or experiment, a thorough material

compatibility and safety study should be carried out. Ensure adequate air ventilation. Ensure all national/local regulations are observed. 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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Disclaimer: This information is provided without warranty. The information is believed to be

correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.