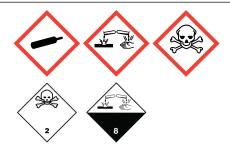


5% Nitrogen dioxide & Oxygen in Nitrogen

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Reference number: SDS 00562 Issue date: 3/21/2016 Revision date: 1/12/2023 Supersedes version of: 8/23/2022 Version: 3.0

Danger



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

1.1. Product identifier

SDS no : SDS 00562

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.

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

Air Liquide UK Ltd Station Road, Coleshill Birmingham, B46 1JY

E-mail address(competent person) safety.aluk@airliquide.com

1.4. Emergency telephone number

Emergency telephone number : 01675 462695 (Available 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 Gases under pressure: Compressed gas H280 Health hazards Acute toxicity (inhalation:gas) Category 3 H331 Skin corrosion/irritation, Category 1, Sub-Category 1B H314 Serious eye damage/eye irritation, Category 1 H318

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP) : Danger

Hazard statements (CLP) H314 - Causes severe skin burns and eye damage.

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

H331 - Toxic if inhaled.

EUH071 - Corrosive to the respiratory tract.

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Precautionary statements (CLP)

- Prevention : P280 - Wear protective gloves, protective clothing, eye protection, face protection.

P260 - Do not breathe gas, vapours.

- Response : P303+P361+P353+P315 - IF ON SKIN : (or hair) Remove/Take off immediately all

contaminated clothing. Rinse skin with water/shower. Get immediate medical advice /

attention

P304+P340+P315 - IF INHALED : Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get immediate medical advice / attention.

P305+P351+P338+P315 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical

advice / attention.

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

2.3. Other hazards

None.

Not classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	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	90	Press. Gas (Comp.), H280
Nitrogen dioxide	CAS-No.: 10102-44-0 EC-No.: 233-272-6 EC Index-No.: 007-002-00-0 REACH-no: 01-2120770753-48	5	Ox. Gas 1, H270 Press. Gas (Liq.), H280 Skin Corr. 1B, H314 Eye Dam. 1, H318 Acute Tox. 1 (Inhalation:gas), H330
Oxygen	CAS-No.: 7782-44-7 EC-No.: 231-956-9 EC Index-No.: 008-001-00-8 REACH-no: *1	5	Ox. Gas 1, H270 Press. Gas (Comp.), 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 : Remove contaminated clothing. Drench affected area with water for at least 15 minutes.

- Eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes.

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

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

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



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

May cause severe chemical burns to skin and cornea. Suitable first-aid treatment should be

immediately available. Seek medical advice before using product.

Material is destructive to tissue of the mucuous membranes and upper respiratory tract.

Cough, shortness of breath, headache, nausea.

See section 11.

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

Obtain medical assistance.

Treat with corticosteroid spray as soon as possible after inhalation.

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 : Exposure to fire may cause containers to rupture/explode. Hazardous combustion products : None that are more hazardous than the product itself.

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 : Wear gas tight chemically protective clothing in combination with self contained breathing

apparatus.

Standard EN 943-2: Protective clothing against liquid and gaseous chemicals, aerosols and

solid particles. Gas-tight chemical protective suits for emergency teams.

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

face mask.

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.

Try to stop release. Evacuate area.

Ensure adequate air ventilation.

Stay upwind.

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

For emergency responders : Wear self-contained breathing apparatus when entering area unless atmosphere is proved

to be safe.

Use chemically protective clothing.

Monitor concentration of released product.

See section 5.3 of the SDS for more information.

6.2. Environmental precautions

Reduce vapour with fog or fine water spray.

Try to stop release.

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6.3. Methods and material for containment and cleaning up

Hose down area with water.

Wash contaminated equipment or sites of leaks with copious quantities of water.

6.4. Reference to other sections

See also sections 8 and 13.

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.

Avoid exposure, obtain special instructions before use.

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.

Installation of a cross purge assembly between the container and the regulator is

Purge system with dry inert gas (e.g. helium or nitrogen) before gas is introduced and when system is placed out of service.

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.

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

Keep away from combustible materials.

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7.3. Specific end use(s)

None

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL (Derived-No Effect Level) None established

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

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

Product to be handled in a closed system.

Systems under pressure should be regularily checked for leakages. Ensure exposure is below occupational exposure limits (where available). Gas detectors should be used when toxic 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 goggles and a face shield when transfilling or breaking transfer connections.

Standard EN 166 - Personal eye-protection - specifications.

Provide readily accessible eye wash stations and safety showers.

· Skin protection

- Other

Respiratory protection

Thermal hazards

Eve/face protection

- Hand protection : Wear chemically resistant protective gloves.

Wear working gloves when handling gas containers.

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

Standard EN 374 - Protective gloves against chemicals.

Consult glove manufacturer's product information on material suitability and material

The breakthrough time of the selected gloves must be greater than the intended use period.

: Keep suitable chemically resistant protective clothing readily available for emergency use. Standard EN943-1 - Full protective suits against liquid, solid and gaseous chemicals.

Wear safety shoes while handling containers.

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

: 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

Consult respiratory device supplier's product information for the selection of the appropriate

Gas filters do not protect against oxygen deficiency.

Never use any kind of filtering respiratory protection equipment when working with this

substance due to it having poor or no warning properties.

Standard EN 14387 - Gas filter(s), combined filter(s) and standard EN136, full face masks .

Keep self contained breathing apparatus readily available for emergency use.

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.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

- Physical state at 20°C / 101.3kPa

- Colour Mixture contains one or more component(s) which have the following colour(s):

Brownish gas Colourless.

Odour Odour threshold is subjective and inadequate to warn of overexposure.

Mixture contains one or more component(s) which have the following odour:

Pungent.

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

Boiling point Not applicable for gas mixtures.

It is technically not possible to determine the boiling point or range of this mixture.

Component with lowest boiling point: Nitrogen -196 °C

Flammability : Non flammable. Lower explosion limit : Not available. Upper explosion limit : Not available.

Flash point : Not applicable for gas mixtures.

Auto-ignition temperature : Non flammable. Decomposition temperature : Not applicable.

рΗ : Not applicable for gas mixtures.

Viscosity, kinematic : Not applicable.

Water solubility [20°C] : Mixture is partially soluble in water Partition coefficient n-octanol/water (Log Kow) Not applicable for gas mixtures.

Vapour pressure [20°C] Not applicable. Vapour pressure [50°C] Not applicable. Density and/or relative density : Not applicable. Relative vapour density (air=1) : Lighter or similar to air.

Particle characteristics : Not applicable.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosive properties : Not applicable. **Explosion limits** Non flammable. : Not applicable. Oxidising properties

9.2.2. Other safety characteristics

Molar mass : Not applicable for gas mixtures. Evaporation rate : Not applicable for gas mixtures.

Other data : None.

SECTION 10: Stability and reactivity

10.1. Reactivity

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

Data for mixture are not available

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

material.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

Avoid moisture in installation systems.

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10.5. Incompatible materials

Reacts with water to form corrosive acids.

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

Acute toxicity : Toxic if inhaled.

Nitrogen dioxide (10102-44-0)	
LC50 Inhalation - Rat [ppm]	57.5 ppm/4h

Skin corrosion/irritation : Causes severe skin burns and eye damage.

Serious eye damage/irritation : Causes serious eye damage.

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 : Severe corrosion to the respiratory tract at high concentrations.

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

Aspiration hazard : Not applicable for gases and gas mixtures.

11.2. Information on other hazards

No additional information available

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.

Nitrogen dioxide (10102-44-0)		
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.	

Oxygen (7782-44-7)		
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.	

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Nitrogen (7727-37-9)		
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 data available.

12.3. Bioaccumulative potential

Assessment : No data available.

12.4. Mobility in soil

Assessment : No data available.

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

Partition into soil is unlikely.

12.5. Results of PBT and vPvB assessment

Assessment : Not classified as PBT or vPvB.

12.6. Endocrine disrupting properties

Assessment

12.7. Other adverse effects

Other adverse effects : May cause pH changes in aqueous ecological systems.

Effect on the ozone layer : No effect on the ozone layer.

Effect on global warming : No known effects from this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Contact supplier if guidance is required. Must not be discharged to atmosphere.

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

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

Decision 2000/532/EC as amended)

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

substances.

13.2. Additional information

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

SECTION 14: Transport information

14.1. UN number or ID number

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

UN-No. : 3304

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14.2. UN proper shipping name

Transport by road/rail (ADR/RID) : COMPRESSED GAS, TOXIC, CORROSIVE, N.O.S. (Nitrogen dioxide, Oxygen)

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

Transport by sea (IMDG) : COMPRESSED GAS, TOXIC, CORROSIVE, N.O.S. (Nitrogen dioxide, Oxygen)

14.3. Transport hazard class(es)

Labelling : 2

2.3: Toxic gases.

8 : Corrosive substances.

Transport by road/rail (ADR/RID)

Class : 2
Classification code : 1TC
Hazard identification number : 268

Tunnel Restriction : C/D - Tank carriage : Passage forbidden through tunnels of category C, D and E. Other

carriage: Passage forbidden through tunnels of category D and E

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

Class / Div. (Sub. risk(s)) : 2.3 (8)

Transport by sea (IMDG)

Class / Div. (Sub. risk(s)) : 2.3 (8)
Emergency Schedule (EmS) - Fire : F-C
Emergency Schedule (EmS) - Spillage : S-U

14.4. Packing group

Transport by road/rail (ADR/RID) : Not applicable.

Transport by air (ICAO-TI / IATA-DGR) : Not applicable.

Transport by sea (IMDG) : Not applicable.

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 : Forbidden.
Cargo Aircraft only : Forbidden.
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.
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.

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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 on the REACH candidate list. : Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament

Other information, restriction and prohibition

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

National regulations

Regulatory reference : Ensure all national/local regulations are observed.

15.2. Chemical safety assessment

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

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

and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

(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 : Users of breathing apparatus must be trained.

Ensure operators understand the toxicity hazard.

Further information : 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	
Acute Tox. 1 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 1
Acute Tox. 3 (Inhalation:gas)	Acute toxicity (inhalation:gas) Category 3
EUH071	Corrosive to the respiratory tract.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1

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H270	May cause or intensify fire; oxidiser.
H280	Contains gas under pressure; may explode if heated.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
Ox. Gas 1	Oxidising Gases, Category 1
Press. Gas (Comp.)	Gases under pressure : Compressed gas
Press. Gas (Liq.)	Gases under pressure : Liquefied gas
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B

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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