



# SAFETY DATA SHEET in accordance with REACH regulation 1907/2006/EC

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Revised edition no : 2 - 00

Date : 9 / 10 / 2012

Supersedes : 1 / 3 / 2007

**Compressed Air****203001\_04**

## SECTION 1. Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Trade name : Compressed Air  
SDS Nr : 203001\_04  
Registration-No. : Listed in Annex IV / V REACH, exempted from registration.

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

Relevant identified uses : Industrial and professional. Perform risk assessment prior to use.  
Test gas / Calibration gas. Purging. Laboratory use.  
Contact supplier for more uses information.

### 1.3. Details of the supplier of the safety data sheet

Company identification : AIR LIQUIDE Deutschland GmbH  
Hans-Günther-Sohl-Straße 5  
D-40235 Düsseldorf GERMANY  
Telefon: +49 (0)211 6699-0 - Fax: +49 (0)211 6699-222  
E-Mail address (competent person) : Info.SDB@AirLiquide.de

### 1.4. Emergency telephone number

Emergency telephone number : +49 (0)2151 398668  
- Availability : ( 24 / 7 )

## SECTION 2. Hazards identification

### 2.1. Classification of the substance or mixture

#### Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

• Physical hazards : Gases under pressure - Compressed gas - Warning - (CLP : Press. Gas) - H280

#### Classification EC 67/548 or EC 1999/45

Classification : Not included in Annex VI.  
No EC labelling required.  
Not classified as dangerous substance/mixture.

### 2.2. Label elements

#### Labelling Regulation EC 1272/2008 (CLP)

• Hazard pictograms



• Hazard pictograms code : GHS04  
• Signal words : Warning  
• Hazard statements : H280 - Contains gas under pressure; may explode if heated.  
• Precautionary statements  
- Storage : P403 - Store in a well-ventilated place.

### 2.3. Other hazards

Other hazards : None.



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**Compressed Air****203001\_04****SECTION 3. Composition/information on ingredients****3.1. Substance / 3.2. Mixture**

Mixture.

| Substance name | Content [Vol-%] | CAS No<br>EC No<br>Index No<br>Registration no. | Classification(DSD)      | Classification(CLP)                   |
|----------------|-----------------|---|--------------------------|---------------------------------------|
| Nitrogen       | : 79.5 %        | 7727-37-9<br>231-783-9<br>-----<br>*1           | Not classified (DSD/DPD) | Press. Gas (H280)                     |
| Oxygen         | : 20.5 %        | 7782-44-7<br>231-956-9<br>008-001-00-8<br>* 1   | O; R8                    | Ox. Gas 1 (H270)<br>Press. Gas (H280) |

Contains no other components or impurities which will influence the classification of the product. \* 1: Listed in Annex IV / V REACH, exempted from registration.

\* 2: Registration deadline not expired.

\* 3: Registration not required: Substance manufactured or imported < 1t/y Full text of R-phrases see chapter 16. Full text of H-statements see chapter 16

**SECTION 4. First aid measures****4.1. Description of first aid measures**

- Inhalation : Adverse effects not expected from this product.
- Skin contact : Adverse effects not expected from this product.
- Eye 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**

: No effect on living tissue.

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

: None.

**SECTION 5. Fire-fighting measures****5.1. Extinguishing media**

- Suitable extinguishing media : Water spray or fog.
- 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.

**5.3. Advice for firefighters**

- Specific methods : Use fire control measures appropriate to 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.  
Use water spray or fog to knock down fire fumes if possible.



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## SECTION 5. Fire-fighting measures (continued)

**Special protective equipment for fire fighters** : Use self-contained breathing apparatus.  
None necessary.  
Standard EN 137 - self-contained open-circuit compressed air breathing apparatus with full face mask.  
Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.  
EN 469: Protective clothing for firefighters. EN 659: Protective gloves for firefighters.

## SECTION 6. Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

: None.

### 6.2. Environmental precautions

: None.

### 6.3. Methods and material for containment and cleaning up

: None.

### 6.4. Reference to other sections

Reference to other sections : See also sections 8 and 13.

## SECTION 7. Handling and storage

### 7.1. Precautions for safe handling

**Safe use of the product** : Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.  
Do not smoke while handling product.  
Only experienced and properly instructed persons should handle gases under pressure.  
Ensure the complete gas system was (or is regularly) checked for leaks before use.  
The product must be handled in accordance with good industrial hygiene and safety procedures.  
Consider pressure relief device(s) in gas installations.

**Safe handling of the gas receptacle** : Suck back of water into the container must be prevented.  
Refer to supplier's container handling instructions.  
Do not allow backfeed into the container.  
Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.  
Protect cylinders 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 cylinder contents.  
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 cylinder valve discontinue use and contact 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.  
Keep container valve outlets clean and free from contaminants particularly oil and water.  
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.  
Damaged valves should be reported immediately to the supplier.



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## SECTION 7. Handling and storage (continued)

### 7.2. Conditions for safe storage, including any incompatibilities

**Storage** : 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. Stored containers should be periodically checked for general condition and leakage.  
Observe all regulations and local requirements regarding storage of containers.  
Containers should not be stored in conditions likely to encourage corrosion. Containers should be stored in the vertical position and properly secured to prevent toppling. Container valve guards or caps should be in place. Keep away from combustible materials.

### 7.3. Specific end use(s)

: None.

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

**DNEL: Derived no effect level (Workers)** : None available.

**PNEC: Predicted no effect concentration** : None available.

### 8.2. Exposure controls

**8.2.1. Appropriate engineering controls** : Systems under pressure should be regularly checked for leakages.  
Consider 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.

• **Eye / face protection** : Wear safety glasses with side shields  
Standard EN 166 - Personal eye-protection.

- **Hand protection** : Wear working gloves when handling gas containers.  
Standard EN 388 - Protective gloves against mechanical risk.

- **Other** : Wear safety shoes while handling containers.  
Standard EN ISO 20345 Personal protective equipment - Safety footwear.

• **Thermal hazards** : None necessary.

**8.2.3. Environmental exposure controls** : None necessary.

## 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** : Odourless.

**Molar mass [g/mol]** : 29

**Melting point [°C]** : Not applicable for gas-mixtures.

**Boiling point [°C]** : Not applicable for gas-mixtures.

**Critical temperature [°C]** : Not known.

**Flash point [°C]** : Not applicable for gases and gas-mixtures.

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**In case of emergency : +49 (0)2151 398668**



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## SECTION 9. Physical and chemical properties (continued)

|   |   |
|---|---|
| Evaporation rate (ether=1)                      | : Not applicable for gases and gas-mixtures.        |
| Flammability range [vol% in air]                | : Non flammable.                                    |
| Vapour pressure [20°C]                          | : Not applicable.                                   |
| Relative density, gas (air=1)                   | : 1   |
| Relative density, liquid (water=1)              | : Not applicable.                                   |
| Solubility in water [mg/l]                      | : Not known, but considered to have low solubility. |
| Partition coefficient n-octanol/water [log Pow] | : Not applicable for inorganic gases.               |
| Auto-ignition temperature [°C]                  | : Not applicable.                                   |

### 9.2. Other information

Other data : None.

## 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

: None.

### 10.4. Conditions to avoid

: None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

: For additional information on compatibility refer to ISO 11114

### 10.6. Hazardous decomposition products

: None.

## SECTION 11. Toxicological information

### 11.1. Information on toxicological effects

|                                   |   |
|-----------------------------------|---|
| Acute toxicity                    | : No toxicological 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.         |
| Carcinogenicity                   | : No known effects from this product.         |
| Germ cell mutagenicity            | : No known effects from this product.         |
| Reproductive toxicity             | : No known effects from this product.         |
| STOT-single exposure              | : No known effects from this product.         |
| STOT-repeated exposure            | : No known effects from this product.         |
| Aspiration hazard                 | : Not applicable for gases and gas-mixtures.  |



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**SECTION 12. Ecological information**

**12.1. Toxicity**

: No ecological damage caused by this product.

**12.2. Persistence and degradability**

: No ecological damage caused by this product.

**12.3. Bioaccumulative potential**

: No ecological damage caused by this product.

**12.4. Mobility in soil**

: No ecological damage caused by this product.

**12.5. Results of PBT and vPvB assessment**

: Not classified as PBT or vPvB.

**12.6. Other adverse effects**

Effect on ozone layer

: None.

Effect on the global warming

: No known effects from this product.

**SECTION 13. Disposal considerations**

**13.1. Waste treatment methods**

List of hazardous waste : May be vented to atmosphere.

: 16 05 05: Gases in pressure containers other than those mentioned in 16 05 04.

**13.2. Additional information**

: None.

**SECTION 14. Transport information**

UN number : 1002

Labelling ADR, IMDG, IATA



: 2.2 : Non flammable, non toxic gas.

**Land transport (ADR/RID)**

H.I. nr : 20

UN proper shipping name : AIR, COMPRESSED

Transport hazard class(es) : 2

Classification code : 1 A

Packing Instruction(s) : P200

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

Environmental hazards : None.

**Sea transport (IMDG)**

Proper shipping name : AIR, COMPRESSED



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**Compressed Air****203001\_04****SECTION 14. Transport information (continued)**

Class : 2.2  
Emergency Schedule (EmS) - Fire : F-C  
Emergency Schedule (EmS) - Spillage : S-V  
Packing instruction : P200  
IMDG-Marine pollutant : No  
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not applicable.

**Air transport (ICAO-TI / IATA-DGR)**

Proper shipping name (IATA) : AIR, COMPRESSED  
Class : 2.2  
Passenger and Cargo Aircraft : Allowed.  
Packing instruction - Passenger and Cargo Aircraft : 200  
Cargo Aircraft only : Allowed.  
Packing instruction - Cargo Aircraft only : 200

**Special precautions for user**

: - Ensure there is adequate ventilation.  
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 containers are firmly secured.  
- Ensure cylinder 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.  
Avoid transport on vehicles where the load space is not separated from the driver's compartment.

**SECTION 15. Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU legislation**

Restrictions on use : None.  
Seveso directive 96/82/EC : Not covered.

**National legislation**

: Ensure all national/local regulations are observed.  
- 4. BlmschV  
- Water hazard class WGK (Germany) : NWG - nicht wassergefährdend  
- Other regulations and technical rules : [German regulations]  
(not complete) GefahrstoffV, BetriebssicherheitsV, BGR Regel 500 Teil 2.33: Umgang mit Gasen, Technische Regel Gase TRG 280, Technische Regeln Gefährliche Stoffe TRGS 400, 500, 510, 900.

**15.2. Chemical safety assessment**

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



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**SECTION 16. Other information**

- Indication of changes** : Revised safety data sheet in accordance with commission regulation (EU) No 453/2010
- List of full text of R-phrases in section 3.** : R8 : Contact with combustible material may cause fire.
- List of full text of H-statements in section 3.** : H270 - May cause or intensify fire; oxidizer.  
H280 - Contains gas under pressure; may explode if heated.
- Further information** : This Safety Data Sheet has been established in accordance with the applicable European Union legislation.  
Classification in accordance with calculation methods of regulation (EC) 1272/2008 CLP / (EC) 1999/45 DPD.
- 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.

**End of document**