

Safety data sheet

Air, compressed.

Creation date : 27.01.2005
Revision date : 02.11.2009

Version : 1.2

DE / E

SDS No. : 8309
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1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

Product name

Air, compressed.

Trade name

Compressed air

Chemical formula Mixture of N₂ and O₂
Known uses

Not known.

Company identification

Linde AG, Linde Gas Division, Seitnerstraße 70, D-82049 Pullach

E-Mail Address Direkt@de.linde-gas.com

Emergency phone numbers (24h): 089-7446-0

2 HAZARDS IDENTIFICATION

Risk advice to man and the environment

Compressed gas.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation: Preparation.

Components/Impurities
Contains the following components:
Oxygen <= 20 %

CAS Nr: 7782-44-7 **EINECS Nr.:** 231-956-9

EC classification of pure substance:

O; R8

Nitrogen >= 80 %

CAS Nr: 7727-37-9 **EINECS Nr.:** 231-783-9

EC classification of pure substance:

Not classified as hazardous to health.

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

4 FIRST AID MEASURES

Inhalation

Not hazardous

5 FIRE FIGHTING MEASURES

Specific hazards

Exposure to fire may cause containers to rupture/explode. Non flammable.

Hazardous combustion products

None.

Suitable extinguishing media

All known extinguishants can be used.

Specific methods

Move container away or cool with water from a protected position.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions

None.

Environmental precautions

None.

Clean up methods

None.

7 HANDLING AND STORAGE

Handling

Suck back of water into the container must be prevented. Use only properly specified equipment which is suitable for this product, its

supply pressure and temperature. Contact your gas supplier if in doubt. Refer to supplier's handling instructions.

Storage

Keep container below 50°C in a well ventilated place. Observe "Technische Regeln Druckgase (TRG) 280 Ziffer 5"

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protection

Carry working gloves and protection shoes while handling gas cylinders.

9 PHYSICAL AND CHEMICAL PROPERTIES

General information
Appearance/Colour: Colourless gas.

Odour: None.

Important information on environment, health and safety
Molecular weight: 32 g/mol (O₂). 28 g/mol (N₂).

Melting point: -219 °C (O₂). -210 °C (N₂).

Boiling point: -183 °C (O₂). -196 °C (N₂).

Critical temperature: -118 °C (O₂). -147 °C (N₂).

Autoignition temperature: Not applicable.

Flammability range: Not applicable.

Relative density, gas: 1,1 (O₂). 0,97 (N₂).

Solubility mg/l water: 39 mg/l (O₂). 20 mg/l (N₂).

10 STABILITY AND REACTIVITY

Stability and reactivity

Stable under normal conditions.

11 TOXICOLOGICAL INFORMATION

General

No known toxicological effects from this product.

12 ECOLOGICAL INFORMATION

General

No known ecological damage caused by this product.

13 DISPOSAL CONSIDERATIONS

General

To atmosphere in a well ventilated place.

14 TRANSPORT INFORMATION

ADR/RID

Class	2	Classification Code	1A
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UN number and proper shipping name

UN 1002 Air, compressed

UN 1002 Air, compressed

Labels	2.2	Hazard number	20
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Packing Instruction	P200
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IMDG

Class	2.2
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UN number and proper shipping name

UN 1002 Air, compressed

Labels	2.2
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Packing Instruction	P200
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EmS	FC, SV
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IATA

Class 2.2

UN number and proper shipping name

UN 1002 Air, compressed

Labels 2.2

Packing Instruction P200

15 REGULATORY INFORMATION

Number in Annex I of Dir 67/548

Not included in Annex I.

EC Classification

Not classified as hazardous to health.

Labelling

- Symbols

No symbol required.

Water pollution class

Not polluting to waters according to VwVwS from 17.05.99.

TA-Luft

Not classified according to TA-Luft.

16 OTHER INFORMATION

Wording of risk sentences from chapter 3

R8 Contact with combustible material may cause fire.

RAs Asphyxiant in high concentrations.

Ensure all national/local regulations are observed. Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

Advice

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

Further informations

Linde safety advice

No. 7 Safe handling of gas cylinders and cylinder bundles

No. 11 Transport of gas receptacles in vehicles

End of document