

000090300103Luft_EU_EN

Air, compressed; Breathing air; Druckluft; Luft, verdichtet

Print date 23.01.2024
Revision date 23.01.2024
Version 4.1 (en,EU)
replaces version of 16.06.2022 (4.0)

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

1.1 Product identifier

Trade name/designation Air, compressed; Breathing air; Druckluft; Luft, verdichtet

Prod-Nr various; diverse

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

Sector of uses [SU]

SU2a Mining, (without offshore industries)
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU0 Other

Process categories [PROC]

Professional:
PROC0 Other

Environmental release categories [ERC]

not applicable

Product Categories [PC]

PC0 Other

Article categories [AC]

not applicable

Uses advised against

Do not use for inflating balloons.
Do not use for medical-clinical purposes.
Do not use for private purposes (household).

Remark

Supports the respiration
none

1.3 Details of the supplier of the safety data sheet

Supplier

Dräger Safety AG & Co. KGaA
Revalstr. 1
DE-23560 Lübeck
Telephone +49 (0) 451/882-0
Telefax +49 (0) 451/882-2080
E-mail info@draeger.com
Website www.draeger.com

Department responsible for information:

Dräger Global EHS Management
Telephone +49 (0) 451 / 882-5997
Telefax +49 (0) 451 / 882-76979

E-mail (competent person):
sds@draeger.com

1.4 Emergency telephone number

Giftinformationszentrum Nord, Göttingen; Tel. (0551) 1 92 40 +49 (0) 451/ 882-2395 (Dräger Werkschutz)

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]	Classification procedure
Press. Gas (Comp.), H280	

Hazard statements for physical hazards

H280 Contains gas under pressure; may explode if heated.

Remark

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].
none

Additional information

This mixture does not contain any substances which either present a health or environmental hazard according to directive 67/548/EEC or have an occupational exposure limit assigned.

2.2 Label elements

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

Hazard pictograms



GHS04

Signal word

Warning

Hazard statements

H280 Contains gas under pressure; may explode if heated.

Precautionary statements

P103 Read carefully and follow all instructions.
P233 Keep container tightly closed.
P202 Do not handle until all safety precautions have been read and understood.
P376 Stop leak if safe to do so.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P410 Protect from sunlight.
P411 Store at temperatures not exceeding 60 ° C.
P501 Contents / container to properly dispose and recycle.

Supplemental hazard information

none

special rules for labelling of plant protection products

not applicable

Special rules on packaging

none

Other labelling

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C. Do not pierce or burn, even after use.

2.3 Other hazards

Adverse physicochemical effects

Caution! Container under pressure.

Adverse human health effects and symptoms

This information is not available.

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Adverse environmental effects
 none

Other adverse effects
 This information is not available.

Results of PBT and vPvB assessment
 No known ecological damage caused by this product.

SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Description
 not applicable

Hazardous ingredients

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
7727-37-9	231-783-9	Nitrogen	> 78 %		ATE(inhalation gas): 250000 mg/L
7782-44-7	231-956-9	oxygen	< 21 %	Ox. Gas 1; H270 Press. Gas	ATE(inhalation gas): 250000 mg/L

REACH No.	Substance name
-	Nitrogen

Remark
 none

SECTION 4: First aid measures

4.1 Description of first aid measures

General information
 none

Following inhalation
 No special measures are necessary.

Following skin contact
 No special measures are necessary.

After eye contact
 not determined

Following ingestion
 not applicable

4.2 Most important symptoms and effects, both acute and delayed

Symptoms
 No known symptoms to date.

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Effects

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

ABC-powder
Carbon dioxide (CO₂)
Water spray jet

Unsuitable extinguishing media

none

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

This information is not available.

5.3 Advice for firefighters

Special protective equipment for firefighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

Additional information

Co-ordinate fire-fighting measures to the fire surroundings.
Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.
Keep people away and stay on the upwind side.

For emergency responders

Remove persons to safety.

6.2 Environmental precautions

Collect contaminated water / firefighting water separately.
Suppress gases/vapours/mists with water spray jet.

6.3 Methods and material for containment and cleaning up

For containment

Suck off by room ventilation.
Disposal according to regulations.

For cleaning up

Leave to vapourize.

Other information

none

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6.4 Reference to other sections

Safe handling: see section 7
Disposal: see section 13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Treatment only in suitable rooms and systems.
No special measures are necessary.
Handle and open container with care.
Keep limited supplies at workplace.
Do not use for cleaning purposes.
Keep away from sources of ignition - No smoking.
The product is not:
Combustible
The product is:
oxidising
Usual measures for fire prevention.
Avoid effect of heat.
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.
Keep the packing dry and well sealed to prevent contamination and absorption of humidity.
Keep in a cool, well-ventilated place.
Avoid:
Eye contact

Advices on general occupational hygiene

When handling the product do not consume alcohol.
When using do not eat, drink, smoke, sniff.
Wash hands and face before breaks and after work and take a shower if necessary.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep/Store only in original container.
Keep container tightly closed.
Only use containers specifically approved for the substance/product.
Handle and open container with care.

Storage class

2A Gases (except aerosol dispensers and lighters)

Further information on storage conditions

Do not store with chemicals.
Store separately
Keep only in the original container in a cool, well-ventilated place.
Keep away from:
Acid
Reducing agent
Storage: cool and dry
Protect from heat and direct solar radiation.
Protect pressurised gas bottles against overturning.
Protect containers from falling down.
Where possible store containers outdoors.
Protect from heat/overheating.
Keep in a cool, well-ventilated place.
Heating causes rise in pressure with risk of bursting.
The storage temperature should be between -30 and 60°C.
Storage time more than 24 months.

7.3 Specific end use(s)

Recommendation

See section 1.2

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Industrial sector specific solutions
 not known

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No data available

8.2 Exposure controls

Appropriate engineering controls

Technical measures to prevent exposure
 not applicable

Personal protection equipment

Eye/face protection
 Eye glasses with side protection

Hand protection
 Gloves with long cuffs

Body protection:
 Light protective clothing.

Respiratory protection
 not applicable

Thermal hazards
 not determined

Environmental exposure controls

Technical measures to prevent exposure
 not applicable

Additional information

none

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state
 compressed gas

Colour
 colourless

Odour
 odourless

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:			none
Melting point/freezing point	Melting point approx. -219 °C	not determined	-219 oC (O2); -210 oC (N2)
Boiling point or initial boiling point and boiling range	approx. -195 °C pressure 1 bar	not determined	-183 oC (O2); -196 oC (N2)
flammability	solid	not applicable	not applicable

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	Value	Method	Source, Remark
flammability	gaseous	not applicable	not applicable
Lower and upper explosion limit	Upper explosion limit	not applicable	none not applicable
Lower and upper explosion limit	Lower explosion limit	not applicable	none not applicable
Flash point		not applicable	not applicable
Auto-ignition temperature		not applicable	not applicable
Auto-ignition temperature		not applicable	not applicable
Decomposition temperature		not applicable	not applicable
Decomposition temperature		not determined	none
pH	in delivery state	not applicable	not applicable
Viscosity	not determined	not applicable	none not determined
Viscosity	not determined	not applicable	none not determined
Solubility(ies)	Water solubility approx.23- 50 mg/L (0°C) pressure 1 bar	not determined	39 mg/l (O2); 20 mg/l (N2)
Solubility(ies)	not determined	not determined	none not determined
Partition coefficient n-octanol/water (log value)		not determined	none not determined
Vapour pressure	(20°C)	not applicable	none not applicable
Density and/or relative density	approx. 1 g/cm ³	not determined	Im Vergleich mit Luft.
Density and/or relative density	Bulk density	not applicable	none not applicable
Relative vapour density	approx. 1 (20°C) pressure 1 bar	not determined	none
particle characteristics	not determined		

9.2 Other information

Other safety characteristics

	Value	Method	Source, Remark
Evaporation rate		not determined	none not applicable
Solvent content			none not applicable
Water content			none not determined
Solid content			none not determined
acid number		not applicable	not applicable
Solvent separation test		not determined	none not determined
Explosive properties			not determined
Oxidising properties			No data available

Other information
 none

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SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reactions known.

10.2 Chemical stability

Remains stable under normal conditions.
 No hazardous reactions known.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Danger of bursting container.

10.5 Incompatible materials

not known

10.6 Hazardous decomposition products

not known

Additional information

none

SECTION 11: Toxicological information

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

Acute toxicity

Animal data

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	Species not applicable	not applicable	No known toxicological effects from this product. not applicable
Acute dermal toxicity	Species not applicable	not applicable	No known toxicological effects from this product. not applicable
Acute inhalation toxicity	Species not applicable	not applicable	No known toxicological effects from this product. not applicable

CAS No.7727-37-9 Nitrogen
 Acute inhalation toxicity
 (gas)
 LC50: 250000 mg/L
 Species Rat
 Exposure time 4 h

CAS No.7782-44-7 oxygen
 Acute inhalation toxicity
 (gas)
 LC50: 250000 mg/L
 Species Rat
 Exposure time 4 h

Skin corrosion/irritation

Animal data

Result / Evaluation	Method	Source, Remark
not applicable	not applicable	No known toxicological effects from this product.
Species not applicable		

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Serious eye damage/irritation

Animal data

Result / Evaluation	Method	Source, Remark
not applicable Species not applicable	not applicable	No known toxicological effects from this product.

Sensitisation to the respiratory tract

Assessment/classification

not determined

Skin sensitisation

Animal data

Result / Evaluation	Dose / Concentration	Method	Source, Remark
not determined	Species not determined	not determined	No known toxicological effects from this product.

Germ cell mutagenicity

	Value	Method	Result / Evaluation	Remark
In vitro mutagenicity/genotoxicity	Species not determined	not determined	No known toxicological effects from this product.	not applicable not determined

Carcinogenicity

Animal data

	Value	Method	Result / Evaluation	Remark
Carcinogenicity	Species not determined	not determined	No known toxicological effects from this product.	not applicable not determined

Reproductive toxicity

Animal data

	Value	Method	Result / Evaluation	Remark
Reproductive toxicity	Species not determined	not determined	No known toxicological effects from this product.	not applicable not determined

STOT-single exposure

STOT SE 1 and 2

Animal data

	Effective dose	Method	Specific effects:	Organs affected:	Source, Remark
Oral specific target organ toxicity (single exposure)	Species not determined	not determined			No known toxicological effects from this product. not applicable not determined
Dermal specific target organ toxicity (single exposure)	Species not determined	not determined			No known toxicological effects from this product. not applicable not determined
Inhalative specific target organ toxicity (single exposure)	Species not determined	not determined			No known toxicological effects from this product. not applicable not determined

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Other information

No known toxicological effects from this product.

STOT-repeated exposure

Animal data

	Effective dose	Method	Specific effects:	Organs affected:	Source, Remark
Oral specific target organ toxicity (repeated exposure)	Species not determined	not determined			No known toxicological effects from this product. not applicable not determined
Oral specific target organ toxicity (repeated exposure)	Species not determined	not determined			No known toxicological effects from this product. not applicable not determined
Dermal specific target organ toxicity (repeated exposure)	Species not determined	not determined			No known toxicological effects from this product. not applicable not determined
Dermal specific target organ toxicity (repeated exposure)	Species not determined	not determined			No known toxicological effects from this product. not applicable not determined
Inhalative specific target organ toxicity (repeated exposure)	Species not determined	not determined			No known toxicological effects from this product. not applicable not determined
Inhalative specific target organ toxicity (repeated exposure)	Species not determined	not determined			No known toxicological effects from this product. not applicable not determined

Other information

No known toxicological effects from this product.

Aspiration hazard

Remark

not applicable

11.2 Information on other hazards

Other information

No known toxicological effects from this product.
Toxicological data are not available.

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SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity	Species not determined	not determined	No known ecological damage caused by this product. not applicable
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	Species not determined	not determined	No known ecological damage caused by this product. not applicable
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	Species not determined	not determined	No known ecological damage caused by this product. not applicable
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	Species not determined	not determined	No known ecological damage caused by this product. not applicable

12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation		not determined	No known ecological damage caused by this product. none not applicable not determined
Biodegradation		not determined	No known ecological damage caused by this product. none not applicable not determined

12.3 Bioaccumulative potential

Assessment/classification

No known ecological damage caused by this product.

12.4 Mobility in soil

Assessment/classification

No known ecological damage caused by this product.

12.5 Results of PBT and vPvB assessment

No known ecological damage caused by this product.

12.6 Endocrine disrupting properties

No data available

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12.7 Other adverse effects

Additional ecotoxicological information

	Value	Method	Source, Remark
Chemical oxygen demand (COD)		not determined	none not determined
Biochemical oxygen demand		not determined	none not determined
Total organic carbon (TOC):		not determined	none not determined
AOX			not determined

Additional information

If appropriate application no interferences in sewage treatment plants.
Material has no ecologically harmful effects.
Product does not cause biological oxygen loss.
The substance is naturally occurring.
No known ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste codes/waste designations according to EWC/AVV

Waste code product	Waste name
160505	gases in pressure containers other than those mentioned in 16 05 04

Appropriate disposal / Product

Dispose of waste according to applicable legislation.

Appropriate disposal / Package

Completely emptied packages can be recycled.

Remark

none

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	UN 1002	UN 1002	UN 1002
14.2 UN proper shipping name	AIR, COMPRESSED	AIR, COMPRESSED	Air, compressed
14.3 Transport hazard class(es)	2.2	2.2	2.2
14.4 Packing group	-	-	-
14.5 Environmental hazards	No	No	No

14.6 Special precautions for user

none

14.7 Maritime transport in bulk according to IMO instruments

not applicable

All transport carriers

none

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Land transport (ADR/RID)

UN number or ID number	UN 1002
UN proper shipping name	AIR, COMPRESSED
Transport hazard class(es)	2.2
Hazard label(s)	2.2
Classification code	1A
Packing group	-
Environmental hazards	No
Limited quantity (LQ)	120 ml
Special provisions	392, 655, 662
Tunnel restriction code	E

Sea transport (IMDG)

UN number or ID number	UN 1002
UN proper shipping name	AIR, COMPRESSED
Transport hazard class(es)	2.2
Packing group	-
Environmental hazards	No
Limited quantity (LQ)	120 ml
Marine pollutant	No
EmS	F-C, S-V

Air transport (ICAO-TI / IATA-DGR)

UN number or ID number	UN 1002
UN proper shipping name	Air, compressed
Transport hazard class(es)	2.2
Packing group	-
Environmental hazards	No

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

Authorisations
not applicable

Restrictions on use
This information is not available.

Other regulations (EU)

To follow:
This information is not available.

15.2 Chemical Safety Assessment**National regulations**

Chemical safety assessments for substances in this mixture were not carried out.

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SECTION 16: Other information

Key literature references and sources for data
not determined

Training advice
not determined

Additional information
National and local regulations concerning chemicals shall be observed.

Refer to product information paper.
The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Relevant H- and EUH-phrases (Number and full text)

H270 May cause or intensify fire; oxidiser.

Indication of changes

* Data changed compared with the previous version