

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

Printed 06.12.2019
Revision 05.12.2019 (GB) Version 1.5

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

000090300103Luft_GB_EN

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

1.1. Product identifier

Name of product 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

Identified uses

Sector of uses [SU]

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

Product categories [PC]

PC0 - Other

Process categories [PROC]

Professional:
PROC0 - Other Process or activity:

Article categories [AC]

not applicable

Article categories [AC]

not applicable

Environmental release categories [ERC]

not applicable

Remark

no

Uses advised against

Sector of uses [SU]

not determined

Product categories [PC]

not determined

Process categories [PROC]

not determined

Article categories [AC]

not applicable

Article categories [AC]

not applicable

Remark

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

Recommended intended purpose(s)

As breathing gas

Effect of the substance / the mixture

Supports the respiration

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1.3. Details of the supplier of the safety data sheet

Distributor Dräger Safety UK Ltd.
Ullswater Close, Blyth Riverside Business Park, UK-NE24 4RG
Blyth; Northumberland
Phone +44 1670 352891, Fax +44 1670 356266
E-Mail info@draeger.com
Internet www.draeger.com

Advice Dräger Environmental Management
Phone +49 451 882 6297
Fax +49 451 882 76297
E-mail (competent person):
sds@draeger.com

1.4. Emergency telephone number

Emergency advice National Poisons Information Service, West Midlands Poisons Unit, City Hospital NHS Trust, Dudley Ro
Phone (0) 12 15 07 55 88/9

Manufacturer

Dräger Safety AG & Co. KGaA
Revalstr. 1, D-23560 Lübeck
Phone +49 (0) 451/882-0, Fax +49 (0) 451/882-2080

E-Mail info@draeger.com
Internet www.draeger.com

Advice Dräger Umweltmanagement
Phone +49 (0) 451 / 882-6297
Fax +49 (0) 451 / 882-76297
E-mail (competent person):
sds@draeger.com

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard Hazard Statements Classification procedure
categories

Compr. Gas H280

Hazard statements for physical hazards

H280 Contains gas under pressure; may explode if heated.

Hazard statements for health hazards

no

Hazard statements for environmental hazards

no

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Additional hints

This mixture is classified as hazardous according to Regulation (EC) No 1272/2008 [GHS].

2.2. Label elements

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



GHS04

Signal word

Warning

Hazard statements for physical hazards

H280 Contains gas under pressure; may explode if heated.

Hazard statements for health hazards

no

Hazard statements for environmental hazards

no

Precautionary Statements

General

P103 Read label before use.

Prevention

P202 Do not handle until all safety precautions have been read and understood.
P233 Keep container tightly closed.

Response

P376 Stop leak if safe to do so.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P410 Protect from sunlight.
P411 Store at temperatures not exceeding 60 ° C.

Disposal

P501 Contents / container to properly dispose and recycle.

Supplemental Hazard information (EU)

Physical properties

no

Health properties

no

Environmental properties

no

Special rules for supplemental label elements for certain mixtures

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

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Additional information

Special rules on packaging

no

Special rules for labelling of plant protection products

not applicable

Remark

no

2.3. Other hazards

Adverse physicochemical effects

Caution! Container under pressure.

Adverse human health effects and symptoms

No information available.

Adverse environmental effects

no

Other adverse effects

No information available.

Information pertaining to special dangers for human and environment

No information 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	Name	[%-Vol]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
7782-44-7	231-956-9	oxygen	< 21	Ox. Gas 1, H270 / Press. Gas
7727-37-9	231-783-9	Nitrogen	> 78	

REACH

CAS No	Name	REACH registration number
7727-37-9	Nitrogen	-

Additional advice

no

Labelling for contents according to regulation (EC) No 648/2004, annex VII

not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

no

In case of inhalation

No special measure necessary.

In case of skin contact

No special measure necessary.

In case of eye contact

not determined

In case of ingestion

not applicable

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

Physician's information / possible symptoms

No symptoms known so far.

Physician's information / possible dangers

No information available.

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

Treatment (Advice to doctor)

Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Fire-extinguishing activities according to surrounding.

ABC powder

Carbon dioxide

Water spray jet

Unsuitable extinguishing media

no

5.2. Special hazards arising from the substance or mixture

No information available.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

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

Additional information

Cool endangered containers with water spray jet.

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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

Allow to vaporise.

Suck off by room ventilation.

Disposal according to regulations.

Additional Information

no

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

Advice on safe handling

Treatment only in suitable rooms and systems.

No special measures necessary if used correctly.

Open and handle container with care!

Keep limited supplies at workplace.

Do not use for cleaning purposes.

General protective measures

Avoid contact with the eyes.

Hygiene measures

When handling the product do not consume alcohol.

At work do not eat, drink and smoke.

Wash hands and skin before breaks and after work.

Advice on protection against fire and explosion

Do not smoke.

The product is not combustible, but supports burning.

Pay attention to general rules of internal fire prevention.

Avoid effect of heat.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in closed original container.

Only use containers that are approved specifically for the substance/product.

Keep only in original container.

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Advice on storage compatibility

Do not store with chemicals.
Store separately
Store only in original container at cool and aired place and at distance to acids and reducing materials.

Further information on storage conditions

The storage temperature should be between -30 and 60°C.
Keep container tightly closed, open and handle carefully.
Storage: cool and dry
Do not keep long-term to heat.
Protect from heat and direct solar radiation.
Protect compressed gas-bottles from falling down.
Protect containers from falling down.
Keep container dry, tightly closed and store at cool place.
If possible store container in the open air.
Protect from heat/overheating.
Keep in a cool place, heat causes increase in pressure and risk of bursting.

Information on storage stability

Storage time more than 24 months.

Storage group 2A

Fire class A

7.3. Specific end use(s)

Recommendation(s) for intended use

See section 1.2

Particular industry solution(s) for intended use

not known

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Additional advice

no

8.2. Exposure controls

Respiratory protection

not applicable

Hand protection

Protective gloves

Eye protection

safety goggles with side protection

Other protection measures

Light protective clothing.

Thermal hazards

not determined

Limitation and surveillance of the environment

not applicable

Appropriate engineering controls

not applicable

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Colour	Odour
compressed gas	colourless	odourless

Odour threshold

no

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	not applicable	not applicable	not applicable	not applicable	not applicable
Acid number	not applicable			not applicable	not applicable
boiling point	ca. -195 °C		1 bar	not determined	-183 oC (O2); -196oC (N2)
melting point	ca. -219 °C			not determined	-219 oC (O2); -210 oC (N2)
Flash point	not applicable			not applicable	not applicable
Vapourisation rate	not applicable			not determined	no
Flammable (solid)	not applicable			not applicable	not applicable
Flammability (gas)	not applicable			not applicable	not applicable
Ignition temperature	not applicable			not applicable	not applicable
Self ignition temperature	not applicable			not applicable	not applicable
Lower explosion limit	not applicable			not applicable	no
Upper explosion limit	not applicable			not applicable	no
Vapour pressure	not applicable	20 °C		not applicable	no
Relative density	ca. 1	not applicable	not applicable	not determined	Compared to air.
Bulk density	not applicable			not applicable	no
Vapour density	ca. 1	20 °C	1 bar	not determined	no
Solubility in water	ca. 23 - 50 mg/l	ca. 0 °C	ca. 1 bar	not determined	39 mg/l (O2); 20 mg/l (N2)
Solubility/other	not determined	not determined	not determined	not determined	no
Partition coefficient n-octanol/water (log P O/W)	not determined	not determined		not determined	no

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	Value	Temperature	at	Method	Remark
Decomposition temperature	not applicable			not applicable	not applicable
Viscosity not determined	not determined	not determined		not applicable	no
Viscosity not determined	not determined	not determined		not applicable	no
Solvent separation test	not determined			not determined	no
Solvent content	not applicable			not applicable	no
Water content	not determined			not determined	no
Solids content	not determined			not determined	no
Combustion value	not applicable				
Sensitiveness to impact	no			not applicable	
Oxidising properties No data available					
Explosive properties not determined					
9.2. Other information no					

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

Substances to avoid

not known

10.6. Hazardous decomposition products

not known

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Thermal decomposition	
Method	not determined
Remark	no
Additional information	
no	

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	not applicable	not applicable	not applicable	No known toxicological effects from this product.
LD50 acute dermal	not applicable	not applicable	not applicable	No known toxicological effects from this product.
LC50 acute inhalation	not applicable	not applicable	not applicable	No known toxicological effects from this product.
Skin irritation	not applicable	not applicable	not applicable	No known toxicological effects from this product.
Eye irritation	not applicable	not applicable	not applicable	No known toxicological effects from this product.
Skin sensitization	not determined	not determined	not determined	No known toxicological effects from this product.
Sensitization respiratory system	not determined	not determined	not determined	No known toxicological effects from this product.

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Subacute Toxicity	not determined not applicable not applicable not applicable	not determined	not determined	No known toxicological effects from this product.
Subchronic Toxicity	not determined not applicable not applicable not applicable	not determined	not determined	No known toxicological effects from this product.
Chronic Toxicity	not determined not applicable not applicable not applicable	not determined	not determined	No known toxicological effects from this product.

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	Value	Species	Method	Validation
Mutagenicity	not determined not applicable not applicable not applicable	not determined	not determined	No known toxicological effects from this product.
Reproduction-Toxicity	not determined not applicable not applicable not applicable	not determined	not determined	No known toxicological effects from this product.
Carcinogenicity	not determined not applicable not applicable not applicable	not determined	not determined	No known toxicological effects from this product.

Specific target organ toxicity (single exposure)
No known toxicological effects from this product.

Specific target organ toxicity (repeated exposure)
No known toxicological effects from this product.

Aspiration hazard
not applicable

Toxicity test (Additional information)
No information available.

Experiences made from practice
No known toxicological effects from this product.

Additional information
No known toxicological effects from this product.
No toxic dates available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	not determined not applicable	not determined	not determined, not applicable	No known ecological damage caused by this product.
Daphnia	not determined not applicable	not determined	not determined, not applicable	No known ecological damage caused by this product.
Algae	not determined not applicable	not determined	not determined, not applicable	No known ecological damage caused by this product.
Bacteria	not determined not applicable	not determined	not determined, not applicable	No known ecological damage caused by this product.

12.2. Persistence and degradability

	Elimination rate	Method of analysis	Method	Validation
Physico-chemical degradability	not applicable	not determined	not determined	no
	No known ecological damage caused by this product.			
Biological degradability	not applicable	not determined	not determined	no
	No known ecological damage caused by this product.			
Degradability	not applicable	not determined	not determined	no
	No known ecological damage caused by this product.			
Biological eliminability	not determined	not determined	not determined	no
	No known ecological damage caused by this product.			
Degradability according to WRMG	not determined	not determined	not determined	no
	No known ecological damage caused by this product.			

12.3. Bioaccumulative potential
No known ecological damage caused by this product.

12.4. Mobility in soil
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. Other adverse effects
No known ecological damage caused by this product.

Behaviour in sewage plant
No known ecological damage caused by this product.

Respiration inhibition of activated sludge

	Value	Method	Remark
EC 50	not determined	not determined	No known ecological damage caused by this product.

Additional ecological information

	Value	Method	Remark
OC	not determined	not determined	no
COD	not determined	not determined	no
BOD 99.40.n.b.	not determined	not determined	no
AOX	not determined		

Contains following heavy metals and compounds of the 76/464/EWG
not applicable

General regulation
The substance is naturally occurring.
If appropriate application no interferences in sewage treatment plants.
Material has no ecologically harmful effects.
Product does not cause biological oxygen loss.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code No.	Name of waste
16 05 05	gases in pressure containers other than those mentioned in 16 05 04

Recommendations for the product

Remove in accordance with local official regulations.

Recommendations for packaging

Totally emptied packaging may be taken for recycling.

Recommended cleansing agent

not applicable

General information

no

SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1002	1002	1002
14.2. UN proper shipping name	Air, compressed	Air, compressed	Air, compressed
14.3. Transport hazard class(es)	2	2.2	2.2
14.4. Packing group	-	.I.	.I.
14.5. Environmental hazards	No	No	No

14.6. Special precautions for user

no

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not applicable

Land and inland navigation transport ADR/RID

Hazard label(s) 2
tunnel restriction code E
Special provisions P200
Classification code 1A

Transport/further information

no

SECTION 15: Regulatory information

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

Authorizations

not applicable

Application restrictions

No information available.

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Other regulations (EU)

No information available.

VOC standard

Remark
not applicable

National regulations

Restriction of occupation

no

Other regulations, restrictions and prohibition regulations

Management of Health and Safety at Work Regulations (1999 no. 3242)
The Regulatory Reform (Fire Safety) Order 2005 (2005 No. 1541)
Control of Substances Hazardous to Health Regulations (COSHH, 2002 No. 2677)
Provisions and Use of Work Equipment Regulations (PUWER, 1998 No. 2306)
Personal Protective Equipment Regulations (1992 No. 2966)
Control of Major Accident Hazards Regulations (COMAH, 1999 No. 743)
Chemical Hazards Information and Packaging for Supply (CHIP, 1994 No. 3247)
Pressure Systems Safety Regulations (PER, 2000 No. 128)
This Safety Data Sheet has been produced to comply with Regulation (EU) 453/2010.
To observe: TRG 280 "General demands for gas pressure vessels; operating with gas pressure vessels"
To observe: TRG 101 "Gases"
UVV "Gases" (VBG 61)
ZH 1/119 "Guidelines for Laboratories"
ZH 1/220 "Regulations on Hazardous Materials"

Water hazard class - self-classification
nwh - not water hazardous

Technical instruction air remarks

not applicable

Decree for case of interference/ remarks Accident decree, addendum II: not named.

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

Training advice

not determined

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

Further information

Refer to product information paper.

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.4

Sources of key data used

not determined

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H270 May cause or intensify fire; oxidiser.