

Air, compressed

 Issue Date:
 16.10.2013

 Last revised date:
 13.02.2020

Version: 1.2

SDS No.: 000010022047 1/12

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

1.1 Product identifier	
Product name:	Air, compressed
Trade name:	AIRAPY®, Air technical, Air compressed, Air 4.0 HiQ, Tryckluft, Teknisk luft, Breathing Air EN-12021
Other Name:	CAS: 132259-10-0
1.2 Relevant identified uses of the subs Identified uses: Uses advised against	s tance or mixture and uses advised against Industrial and professional. Perform risk assessment prior to use. Consumer use.Industrial or technical grade is unsuitable for medical and/or food applications or inhalation.
1.3 Details of the supplier of the safety Supplier Linde Gas AB Rättarvägen 3, 169 68 Solna, Swe	Telephone: +46 8 7069500
E-mail: sds.ren@linde.com	
1.4 Emergency telephone number: Pois	on center: 020-99 60 00 (24 h). Emergency number: 112
SECTION 2: Hazards identification	
2.1 Classification of the substance or m	xture
Classification according to Regulat	ion (EC) No 1272/2008 as amended.
Physical Hazards	
Gases under pressure	Compressed gas H280: Contains gas under pressure; may explode if heated.
2.2 Label Elements	
Signal Words:	Varning

Signal Words:

Warning

Hazard Statement(s):

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



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Precautionary Statements

Prevention:	None.
Response:	None.
Storage:	P403: Store in a well-ventilated place.
Disposal:	None.
2.3 Other hazards:	None.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical name	Chemical formula	Concentration	CAS-No.	EC No.	REACH Registration No.	Notes
Nitrogen	N2	79%	7727-37-9	231-783-9	Listed in Annex IV/V of Regulation (EC) No 1907/2006 (REACH), exempted from registration.	
Oxygen	02	21%	7782-44-7	231-956-9	Listed in Annex IV/V of Regulation (EC) No 1907/2006 (REACH), exempted from registration.	

The concentrations of the components in the SDS header, product name on page one and in section 3.2 are in mol due to regulatory requirements. All concentrations are nominal.

This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Classificati	on	Notes
Nitrogen	CLP:	, Press. Gas Compr. Gas;H280	
Oxygen	CLP:	Press. Gas Compr. Gas;H280, Oxid. Gas 1;H270	

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.



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SECTION 4: First aid measures	
General:	Adverse effects not expected from this product.
4.1 Description of first aid measures	
Inhalation:	Adverse effects not expected from this product.
Eye contact:	Adverse effects not expected from this product.
Skin 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:	None.
4.3 Indication of any immediate med	ical attention and special treatment needed
Hazards:	None.
Treatment:	None.
SECTION 5: Firefighting measures	
General Fire Hazards:	Heat may cause the containers to explode.
5.1 Extinguishing media	
Suitable extinguishing media:	Material will not burn. In case of fire in the surroundings: use appropriate extinguishing agent.
Unsuitable extinguishing media:	None.
5.2 Special hazards arising from the substance or mixture:	Supports combustion.
Hazardous Combustion Products:	None.
5.3 Advice for firefighters Special fire fighting procedures:	In case of fire: Stop leak if safe to do so. Continue water spray from protected position until container stays cool. Use extinguishants to contain the fire. Isolate the source of the fire or let it burn out.



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Special protective equipment
for fire-fighters:Firefighters must use standard protective equipment including flame retardant
coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Guideline: EN 469 Protective clothing for firefighters. Performance requirements
for protective clothing for firefighting. EN 15090 Footwear for firefighters. EN 659
Protective gloves for firefighters. EN 443 Helmets for fire fighting in buildings and
other structures. EN 137 Respiratory protective devices - Self-contained open-
circuit compressed air breathing apparatus with full face mask - Requirements,
testing, marking.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	None.
6.2 Environmental Precautions:	Prevent further leakage or spillage if safe to do so.
6.3 Methods and material for containment and cleaning up:	Provide adequate ventilation.
6.4 Reference to other sections:	Refer to sections 8 and 13.

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SECTION 7: Handling and storage:

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7.1 Precautions for safe handling:	Only experienced and properly instructed persons should handle gases under pressure. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Refer to supplier's handling instructions. The substance must be handled in accordance with good industrial hygiene and safety procedures. Protect containers 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 container contents. When moving containers, even for short distances, use appropriate equipment eg. trolley, hand truck, fork truck etc. Secure cylinders in an upright position at all times, close all valves when not in use. Provide adequate ventilation. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Avoid suckback of water, acid and alkalis. Keep container below 50°C in a well ventilated place. Observe all regulations and local requirements regarding storage of containers. When using do not eat, drink or smoke. Store in accordance with local/regional/national/international regulations. Never use direct flame or electrical heating devices to raise the pressure of a container. Leave valve protection caps in place until the container has been secured against either a wall or bench or placed im a container stand and is ready for use. Damaged valves should be reported immediately to the 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. Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment. Keep container valve outlets clean and free from contaminates particularly oil and water. If user experiences any difficulty operating container valve discontinue use and contact supplier. Never attempt to transfer gases from one container to another. Container valve guards or caps should be in place.
7.2 Conditions for safe storage, including any incompatibilities:	Containers should not be stored in conditions likely to encourage corrosion. Stored containers should be periodically checked for general conditions and leakage. Container valve guards or caps should be in place. Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible material.
7.3 Specific end use(s):	None.
SECTION 8: Exposure controls/pers	sonal protection

8.1 Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.



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8.2 Exposure contr			
Appropriate er controls:	igineering	Consider a work permit system e.g. for mainte air ventilation. Provide adequate ventilation, extraction, to ensure that the defined occupa exceeded. Systems under pressure should be Preferably use permanent leak tight connecti drink or smoke when using the product.	including appropriate local tional exposure limit is not regularly checked for leakages.
Individual prot	ection measures,	such as personal protective equipment	
General infor	mation:	A risk assessment should be conducted and d assess the risks related to the use of the prod matches the relevant risk. The following reco Personal protective equipment for the body s being performed and the risks involved.	uct and to select the PPE that mmendations should be considered.
Eye/face pro	tection:	Wear eye protection to EN 166 when using gases. Guideline: EN 166 Personal Eye Protection.	
Skin protectio Hand Prote		Wear working gloves while handling containe Guideline: EN 388 Protective gloves against n	
Body prote	ction:	No special precautions.	
Other:		Wear safety shoes while handling containers Guideline: ISO 20345 Personal protective equ	
Respiratory P	rotection:	Not required.	
Thermal haza	rds:	No precautionary measures are necessary.	
Hygiene mea	sures:	Specific risk management measures are not re hygiene and safety procedures. Do not eat, d product.	
Environmental controls:	exposure	For waste disposal, see section 13 of the SDS.	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	
Physical state:	Gas
Form:	Compressed gas
Color:	N2: Colorless O2: Colorless
Odor: SDS_SE - 000010022047	N2: Odorless gas



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	02: Odorless
Odor Threshold:	Odor threshold is subjective and is inadequate to warn of over
	exposure.
pH:	Not applicable.
Melting Point:	No data available.
Boiling Point:	No data available.
Sublimation Point:	Not applicable.
Critical Temp. (°C):	No data available.
Flash Point:	Not applicable to gases and gas mixtures.
Evaporation Rate:	Not applicable to gases and gas mixtures.
Flammability (solid, gas):	This product is not flammable.
Flammability Limit - Upper (%):	Not applicable.
Flammability Limit - Lower (%):	Not applicable.
Vapor pressure:	No reliable data available.
Vapor density (air=1):	1,02 (calculated) (15 °C)
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	No data available.
Partition coefficient (n-octanol/water):	Not known.
Autoignition Temperature:	Not applicable.
Decomposition Temperature:	Not known.
Viscosity	
Kinematic viscosity:	No data available.
Dynamic viscosity:	No data available.
Explosive properties:	Not applicable.
Oxidizing properties:	Not applicable.
2 Other information	Cas (vapour boovier that air. May accumulate in confined

9.2 Other information:

Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.

SECTION 10: Stability and reactivity

10.1 Reactivity:	No reactivity hazard other than the effects described in sub-section below.
10.2 Chemical Stability:	Stable under normal conditions.
10.3 Possibility of hazardous reactions:	None.
10.4 Conditions to avoid:	None.
10.5 Incompatible Materials:	No reaction with any common materials in dry or wet conditions.



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10.6 Hazardous Decomposition Products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.		
SECTION 11: Toxicological information			
General information:	None.		
11.1 Information on toxicological ef	fects		
Acute toxicity - Oral Product	Based on available data, the classification criteria are not met.		
Acute toxicity - Dermal Product	Based on available data, the classification criteria are not met.		
Acute toxicity - Inhalation Product	Based on available data, the classification criteria are not met.		
Skin Corrosion/Irritation Product	Based on available data, the classification criteria are not met.		
Serious Eye Damage/Eye Irrita Product	tion Based on available data, the classification criteria are not met.		
Respiratory or Skin Sensitizatio Product	n Based on available data, the classification criteria are not met.		
Germ Cell Mutagenicity Product	Based on available data, the classification criteria are not met.		
Carcinogenicity Product	Based on available data, the classification criteria are not met.		
Reproductive toxicity Product	Based on available data, the classification criteria are not met.		
Specific Target Organ Toxicity - Product	Single Exposure Based on available data, the classification criteria are not met.		
Specific Target Organ Toxicity - Product	Repeated Exposure Based on available data, the classification criteria are not met.		
Aspiration Hazard Product	Not applicable to gases and gas mixtures		



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SECTION 12: Ecological information

12.1 Toxicity	
Acute toxicity Product	No ecological damage caused by this product.
12.2 Persistence and Degradability Product	Not applicable to gases and gas mixtures
12.3 Bioaccumulative potential Product	The subject product is expected to biodegrade and is not expected to persist for long periods in an aquatic environment.
12.4 Mobility in soil Product	Because of its high volatility, the product is unlikely to cause ground or water pollution.
12.5 Results of PBT and vPvB assessment Product	Not classified as PBT or vPvB.
12.6 Other adverse effects:	No ecological damage caused by this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information:	Vent to atmosphere in a well ventilated place.		
Disposal methods:	Dispose of container via supplier only.		
European Waste Codes Container:	16 05 05: Gases in pressure containers other than those mentioned in 16 05 04.		

SECTION 14: Transport information

ADR

14.1 UN Number: 14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es)	UN 1002 AIR, COMPRESSED
Class:	2
Label(s):	2.2
Hazard No. (ADR):	20
Tunnel restriction code:	(E)

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14.4 Packing Group: 14.5 Environmental hazards: 14.6 Special precautions for user:	– Not applicable –
RID	
 14.1 UN Number: 14.2 UN Proper Shipping Name 14.3 Transport Hazard Class(es) Class: Label(s): 14.4 Packing Group: 14.5 Environmental hazards: 14.6 Special precautions for user: 	UN 1002 AIR, COMPRESSED 2 2.2 - Not applicable -
IMDG 14.1 UN Number: 14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es) Class: Label(s): EmS No.: 14.4 Packing Group: 14.5 Environmental hazards: 14.6 Special precautions for user:	UN 1002 AIR, COMPRESSED 2.2 F-C, S-V – Not applicable –
ΙΑΤΑ	

14.1 UN Number: 14.2 Proper Shipping Name: 14.3 Transport Hazard Class(es):	UN 1002 Air, compressed
Class:	2.2
Label(s):	2.2
14.4 Packing Group: 14.5 Environmental hazards: 14.6 Special precautions for user: Other information	– Not applicable –
Passenger and cargo aircraft:	Allowed.
Cargo aircraft only:	Allowed.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

Additional identification: 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 that they are firmly secured. Ensure that the container valve is closed and not leaking. Container valve guards or caps should be in place. Ensure adequate air ventilation.



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SECTION 15: Regulatory information

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

EU Regulations

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, as amended.: Not applicable

Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:

Chemical name	CAS-No.	Concentration
Oxygen	7782-44-7	20 - 30%

National Regulations

Council Directive 89/391/EEC on the introduction of measures to encourage improvements in the safety and health of workers at work Directive 89/686/EEC on personal protective equipment Only products that comply with the food regulations (EC) No. 1333/2008 and (EU) No. 231/2012 and are labelled as such may be used as food additives. This Safety Data Sheet has been produced to comply with Regulation (EU) 2015/830. **15.2 Chemical safety assessment:** No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Revision Information: Not relevant.



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Key literature references and sources for data:Various sources of data have been used in the co- but are not exclusive to: Agency for Toxic Substances and Diseases Regis (http://www.atsdr.cdc.gov/). European Chemical Agency: Guidance on the Co- European Chemical Agency: Information on Regi http://apps.echa.europa.eu/registered/registe European Industrial Gases Association (EIGA) Do guide. 		Registry (ATSDR) e Compilation of Safety Data Sheets. Registered Substances egistered-sub.aspx#search) Doc. 169 Classification and Labelling y (http://www.inchem.org/) Determination of fire potential and valve outlets. logy (NIST) Standard Reference Database information System) platform of the SIS (http://ecb.jrc.ec.europa.eu/esis/). FIC) ERICards. of Medicine's toxicology data network html) can Conference of Governmental		
Wording of the H-s	tatements in se	ction 2 and 3 H270 H280	May cause or intensify fire; c Contains gas under pressure	
Classification acco	rding to Regulat	ion (EC) No 12	272/2008 as amended.	
		Press. Gas C	Compr. Gas, H280	
Other information:		Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. Ensure adequate air ventilation. Ensure all national/local regulations are observed. 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.		
Last revised date: Disclaimer:		13.02.2020 This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.		