

Compressed air

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: RS-02-N2-024 Issue date: 02/01/2019 Revision date: 09/01/2024 Supersedes version of: 09/01/2023 Version: 3C

Warning



quality control, laboratory use, under controlled conditions. Breathing gas. Test gas / Calibration gas. Purging. Uses advised against : Consumer use. Contact your supplier for more information on other uses. Perform fisk assessment prior to use. Uses other than those listed above are not supported contact your supplier for more information on other uses. Attention: These products must not be applied to humans or animals unless they are expressly designated as medical or medicinal gases. 1.3. Details of the supplier of the safety data sheet Messer Tehnogas AD Beograd Banjicki put, 62 RS- 11090 Belgrade, Sorbia T +381 113 53 7200 - F +381 113 53 7291 postoffice@messer.rs. 1.4. Emergency telephone number Ernergency telephone number Ernergency telephone number Ensistication according to Regulation (EC) No. 1272/2008 (CLP] Physical hazards Gases under pressure : Compressed gas Labelling according to Regulation (EC) No. 1272/2008 (CLP] Phazard pictograms (CLP) : Warning Signal word (CLP) : Warning Hazard statements (CLP) : H280 - Contains gas under pressure; may explode if heated.	1.1. Product identifier	
Other means of identification I. None. CAS no. :: None. EC no. :: None. 12. Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses :: Industrial and professional uses. Consumer use. For chemical analysis, calibration, (routine quality control, laboratory use, under controlled conditions. Breathing gas. Tast gas / Calibration gas. Purging. Uses advised against :: Consumer use. Control your supplef for more information on other uses. Parform risk. Attention: These products must no be applied to humans or animals unless they are expressly designated as medical or medicinal gases. 13. Details of the supplier of the safety data sheet Messer Tehnogas AD Beograd Banjicki put, 62 RS-11090 Belgrade, Sarbia T-330 11 35 37 291 postoffice Breaser ris 14. Emergency telephone number Emergency telephone number 22. Label elements Labelling according to Regulation (EC) No. 12722008 [CLP] Physical heazards Gassification according to Regulation (EC) No. 12722008 [CLP] Physical heazards Gasse under pressure : Contains gas under pressure; may explode if heated. Signal word (CLP) :: Warning Signal word (CLP)		: Air; Air synth.; Synth. air 5.0 without CH
CAS no. E None. E C no. E None. E C no. E None. Hole no. E None. 1.2. Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses in the substance or mixture and uses advised against Relevant identified uses in the substance or mixture and uses advised against Relevant identified uses in the substance or mixture and uses advised against Uses advised against in the substance or mixture and uses advised against 1.3. Details of the substance or mixture and uses in the substance or not supported contact your supplier for more information on other uses. Perform risk assessment prior to use. Uses other than those listed above are not supported contact your supplier for more information on other uses. Attention: These products must not be applied to humans or animals unless they are expressly designated as medical or medicinal gases. 1.3. Details of the supplier of the safety data sheet Messer Tohnogas AD Beograd Banjick put, 62 RS-11030 Belgrade, Serbia T-331 11 35 37 200 - F-331 11 35 37 201 postoffice dimension: The yelf way messer to 1.4. Emergency telephone number Energency telephone number Energency telephone number E.1. classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Physical hazards Gases under pressure : Compressed gas H280 2.1. Labelemints Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) : Warning Exact pictograms (CLP) : Warning Exact pictograms (CLP) : Warning Hazard statements (CLP) : Hazards I have the compressure; may explode if heated. Precountory statements (CLP) : Precounters (CLP) Precountory statements (CLP) : Proves. Exact pictograms (CLP) : Pation - Contains gas under pressure; may explode if heated. Precountory statements (CLP) Precountory statement		: RS-02-N2-024
EC no. i None. Idex no. i None. 1. Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses i industrial and professional uses. Consumer use. For chemical analysis, calibration, (routine quality control, laboratory use, under controlled conditions. Breathing gas. Testing Uses advised against : Consumer use. Contact your supplier for more information on other uses. Perform risk assessment prior to use. Uses other than those listed above are not supported contact your supplier for use uses there than those listed above are not supported contact your supplier for use. Uses other than those listed above are not supported contact your supplier for use. Uses other than those listed above are not supported contact your supplier for use. Uses other than those listed above are not supported contact your supplier for use. Uses other than those listed above are not supported contact your supplier for use. Uses other than those listed above are not supported contact your supplier for use. Uses other than those listed above are not supported contact your supplier for more information on other uses. 1.3. Details of the supplier of the safety data sheet Masser Tehnogas AD Beograd Banjicki put, g2 RS-11000 Belgrade, Setia T-381 113 53 72 91 postoffice@Imesser.fs 1.4. : +381(0) 11 360 8440 (24h) SECTION 2: Hazards identification 2.1. Classification according to Regulation (EC) No. 1272/2008 [CLP] Physical hazards Gases under pressure : Compressed gas H280 2.1. abel elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Physical hazards Gases under pressure : Compressed gas under pressure; may explode if heated. Precautionary statements (CLP) recautionary sta		· Nono
Idex no. i None. 1.2. Relevant identified uses of the substance or mixture and uses advised against : Industrial and professional uses. Consumer use. For chemical analysis, calibration, (routine quality control, laboratory use, under controlled conditions. Breathing gas. Test gas / Calibration gas. Purging. Uses advised against :: Consumer use. Contact your supplier for more information on other uses. Attention: These products must not be applied to humans or animals unless they are expressly designated as medical or medicinal gases. 1.3. Details of the supplier of the safety data sheet Messer Tehnogas AD Beograd Banjick jurt, 62 Reserve view interve to the safety data sheet Messer Tehnogas AD Beograd Banjick jurt, 62 Banjick jurt, 62 Period for the safety data sheet Messer Tehnogas AD Beograd Banjick jurt, 62 Banjick jurt, 62 Poison Control Center, VMA Crontravska 17, Belgrade Serbia T-33 113 53 72 91 1-3.11 13 53 7200 - F +381 113 53 72 91 Poison Control Center, VMA Crontravska 17, Belgrade Serbia Tel : +381(0) 11 300 8440 (24h) SECTION 2: Hazards identification Consumer use identification 2.1. Classification after substance or mixture Consumer use identification Basick jurt dependents Consumer use identification 2.1. Label elements Chesod <th></th> <th></th>		
Relevant identified uses : Industrial and professional uses. Consumer use. For chemical analysis, calibration, (routine quality control, laboratory use, under controlled conditions. Breating gas. Test gas / Calibration gas. Purging: Uses advised against :: Consumer use. Contact your supplier for more information on other uses. Perform risk assessments profor to use. Uses other than those listed above are not supported contact your supplier for more information on other uses. 1.3. Details of the supplier of the safety data sheet Reserve the products must not be applied to humans or animals unless they are expressly designated as medical or medicinal gases. 1.3. Details of the supplier of the safety data sheet Messer Tehnogas AD Beograd Banjicki put, 62 RS - 11090 Belgrade, Serbia T-381 11 35 37 201 1.4. Emergency telephone number : Polison Control Center, VMA Crontoravska 17, Belgrade Serbia Tel: +381(0) 11 360 8440 (24h) Crontoravska 17, Belgrade Serbia SECTION 2: Hazards identification Calibration according to Regulation (EC) No. 1272/2008 [CLP] Physical hazards Gases under pressure : Compressed gas H280 21. Label elements Gases under pressure : Compressed gas H280 Signal word (CLP) :: Warning Gases under pressure; may explode if heated. Precountionary statements (CLP) :: H280 - Contains gas under pressure; may explode if heated. Precountionary statements (CL		
quality control, laboratory use, under controlled conditions. Breathing gas. Test gas / Calibration gas. Purging. Uses advised against :: Consumer use. Contact your supplier for more information on other uses. Perform fick assessment prior to use. Uses other than those listed above are not supported contact your supplier for more information on other uses. Attention: These products must not be applied to humans or animals unless they are expressly designated as medical or medicinal gases. 1.1	1.2. Relevant identified uses of the substance	or mixture and uses advised against
Perform risk assessment prior to use. Uses other than those listed above are not supported contact your supplier for more information on other uses. Attention: These products must not be applied to humans or animals unless they are expressly designated as medical or medicinal gases. 1. Details of the supplier of the safety data sheet Messer Tehnogas AD Beograd Banjicki pur, 62 RS- 11090 Belgrade, Serbia T. 381 113 53 7200 - F. 381 113 53 7201 postoffice @messer.rs - www.messer.rs 1. Emergency telephone number Emergency telephone number Perform risk assessment prove the safety data sheet SECTION 2: Hazards identification 2. Label dements Labeling according to Regulation (EC) No. 1272/2008 [CLP] Physical hazards Gases under pressure : Compressed gas 2. Label elements Labeling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) Ying Hazard statements (CLP) Ying Hazard statements (CLP) Ying Hazard statements (CLP) Ying Hazard statements (CLP) Ying Hazard statements (CLP) Ying Hazard statements (CLP) Ying Hazard statements (CLP) Ying Hazard statements (CLP) Ying Hazard statements (CLP) Ying Hazard statements (CLP) Ying Hazard statements (CLP) Ying Hazard	Relevant identified uses	quality control, laboratory use, under controlled conditions. Breathing gas. Test gas /
expressily designated as medical or medicinal gases. 1.3. Details of the supplier of the safety data sheet Messer Tehnogas AD Beograd Banjicki pur, 62 RS-11090 Delgrade, Serbia T +381 11 35 37 200 F +381 11 35 37 291 postoffice @messer.rs. vww.messer.rs 1.4. Emergency telephone number Emergency telephone number Emergency telephone number Emergency telephone number Et : +381(0) 11 360 8440 (24h) 5. ECTION 2: Hazards identification 2. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Physical hazards Gases under pressure : Compressed gas Labeling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) Signal word (CLP) Signal wor	Uses advised against	: Consumer use. Contact your supplier for more information on other uses. Perform risk assessment prior to use. Uses other than those listed above are not supporte contact your supplier for more information on other uses.
Messer Tehnogas AD Beograd Banjidki put , 62 RS- 11090 Belgrade, Serbia T + 381 11 35 37 200 - F + 381 11 35 37 291 postoffice @messer.rs 1.4. Emergency telephone number Emergency telephone number Emergency		
Banjicki put , 62 RS - 11090 Belgrade, Serbia T - 2811 11 35 37 209 F - 8311 135 37 291 postoffice @messer.rs - www.messer.rs 1.4 Emergency telephone number Emergency telephone number : Poison Control Center, VMA Crrotravska 17, Belgrade Serbia Tel. : +381(0) 11 360 8440 (24h) SECTION 2: Hazards identification 2.1.Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Physical hazards Gases under pressure : Compressed gas H280 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) : Warning Hazard pictograms (CLP) : Warning Hazard statements (CLP) : H280 - Contains gas under pressure; may explode if heated. Precautionary statements (CLP) - Storage : P403 - Store in a well-ventilated place. 2.3. Other hazards Not classified as PBT or vPvB.	1.3. Details of the supplier of the safety data s	<u>heet</u>
RS- 11900 Belgrade, Serbia T +381 11 35 37 200 - F +381 11 35 37 291 postoffice@messer.rs 1.4.Emergency telephone number : Poison Control Center, VMA Crnotravska 17, Belgrade Serbia Tel. : +381(0) 11 360 8440 (24h) SECTION 2: Hazards identification 21.Classification of the substance or mixture Classification fot he substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Physical hazards Gases under pressure : Compressed gas H280 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) : Hazards i Verning Hazard statements (CLP) : Hazards : Verning Hazard statements (CLP) : Hazard : P403 - Store in a well-ventilated place. 2.3. Other hazards Not classified as PBT or vPvB.	5 5	
T +381 11 35 37 200 - F +381 11 35 37 291 postoffice @messer.rs - www.messer.rs 14. Emergency telephone number Foison Control Center, VMA		
postoffice @messer.rs - www.messer.rs 1.4.Emergency telephone number		
1.4. Emergency telephone number Poison Control Center, VMA Crnotravska 17, Belgrade Serbia Tel. : +381(0) 11 360 8440 (24h) SECTION 2: Hazards identification 2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Physical hazards Gases under pressure : Compressed gas 2.1. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) Y		
Emergency telephone number : Poison Control Center, VMA Crnotravska 17, Belgrade Serbia Tel. : +381(0) 11 360 8440 (24h) SECTION 2: Hazards identification 2.1.Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Physical hazards Gases under pressure : Compressed gas H280 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) : Signal word (CLP) : Hazard statements (CLP) : Hazard statements (CLP) : Precautionary statements (CLP) : - Storage : - Storage : 2.1. Classified as PBT or vPvB.		
Crootravska 17, Belgrade Serbia Tel.: +381(0) 11 360 8440 (24h) SECTION 2: Hazards identification 21. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Physical hazards Gases under pressure : Compressed gas 22. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) Eabelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS04 Signal word (CLP) : Warning Hazard statements (CLP) : H280 - Contains gas under pressure; may explode if heated. Precautionary statements (CLP) : H280 - Contains gas under pressure; may explode if heated. Precautionary statements (CLP) : H280 - Contains gas under pressure; may explode if heated. Precautionary statements (CLP) : H280 - Contains gas under pressure; may explode if heated. Precautionary statements (CLP) : H280 - Contains gas under pressure; may explode if heated. Precautionary statements (CLP) : H280 - Contains gas under pressure; may explode if heated. Precautionary statements (CLP) : H280 - Contains gas under pressure; may explode if heated. Precautionary statements (CLP) : Nto classified as PBT or vPvB. <th></th> <th>· Poison Control Contor VMA</th>		· Poison Control Contor VMA
2.1. Classification of the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Physical hazards Gases under pressure : Compressed gas H280 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) :		Crnotravska 17, Belgrade Serbia
Classification according to Regulation (EC) No. 1272/2008 [CLP] Physical hazards Gases under pressure : Compressed gas H280 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) : GHS04 Signal word (CLP) : Hazard statements (CLP) : Heazerd statements (CLP) : Hazard statements (CLP) : Precautionary statements (CLP) : Precautionary statements (CLP) : Not classified as PBT or vPvB.	SECTION 2: Hazards identification	
Physical hazards Gases under pressure : Compressed gas H280 2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) :	2.1. Classification of the substance or mixture	
2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) : GHS04 Signal word (CLP) : Hazard statements (CLP)	Classification according to Regulation (EC) No	p. 1272/2008 [CLP]
Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) : GHS04 Signal word (CLP) : Hazard statements (CLP) : Hazard statements (CLP) : Precautionary statements (CLP) : - Storage : - Storage : P403 - Store in a well-ventilated place. 2.3. Other hazards Not classified as PBT or vPvB.	Physical hazards Gases under pressur	e : Compressed gas H280
Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) : GHS04 Signal word (CLP) : Hazard statements (CLP) : Hazard statements (CLP) : Hazard statements (CLP) : Precautionary statements (CLP) : - Storage : P403 - Store in a well-ventilated place. 2.3. Other hazards Not classified as PBT or vPvB.	2.2. Label elements	
Hazard pictograms (CLP) : GHS04 Signal word (CLP) : Warning Hazard statements (CLP) : H280 - Contains gas under pressure; may explode if heated. Precautionary statements (CLP) : P403 - Store in a well-ventilated place. 2.3. Other hazards Not classified as PBT or vPvB.		72/2008 [CLP]
Signal word (CLP) : Warning Hazard statements (CLP) : H280 - Contains gas under pressure; may explode if heated. Precautionary statements (CLP) : P403 - Store in a well-ventilated place. 2.3. Other hazards Not classified as PBT or vPvB.		
Signal word (CLP) : Warning Hazard statements (CLP) : H280 - Contains gas under pressure; may explode if heated. Precautionary statements (CLP) : - Storage : P403 - Store in a well-ventilated place. 2.3. Other hazards Not classified as PBT or vPvB.		
Signal word (CLP) : Warning Hazard statements (CLP) : H280 - Contains gas under pressure; may explode if heated. Precautionary statements (CLP) : - Storage : P403 - Store in a well-ventilated place. 2.3. Other hazards Not classified as PBT or vPvB.		
Signal word (CLP) : Warning Hazard statements (CLP) : H280 - Contains gas under pressure; may explode if heated. Precautionary statements (CLP) : - Storage : P403 - Store in a well-ventilated place. 2.3. Other hazards Not classified as PBT or vPvB.		
Hazard statements (CLP) : H280 - Contains gas under pressure; may explode if heated. Precautionary statements (CLP) : P403 - Store in a well-ventilated place. 2.3. Other hazards Not classified as PBT or vPvB.		GHS04
Precautionary statements (CLP) : P403 - Store in a well-ventilated place. 2.3. Other hazards Not classified as PBT or vPvB.		•
- Storage : P403 - Store in a well-ventilated place. 2.3. Other hazards Not classified as PBT or vPvB.		: H280 - Contains gas under pressure; may explode if heated.
2.3. Other hazards Not classified as PBT or vPvB.		: P403 - Store in a well-ventilated place.
Not classified as PBT or vPvB.	5	



Compressed air

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: RS-02-N2-024

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nitrogen	CAS no.: 7727-37-9 EC no.: 231-783-9 Index no.:	Rest	Press. Gas (Comp.), H280
oxygen	CAS no.: 7782-44-7 EC no.: 231-956-9 Index no.: 008-001-00-8 REACH no.: *1	≤ 20,5	Ox. Gas 1, H270 Press. Gas (Comp.), H280

Full text of H- and EUH-statements: see section 16

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

*1: Listed in Annex IV / V REACH, exempted from registration.

*3: Registration not required: Substance manufactured or imported < 1t/y.

SECTION 4: First aid measures

4.1. Description of first aid measures

- Inhalation
- Skin contact
- Eye contact

Adverse effects not expected from this product.Adverse effects not expected from this product.

Adverse effects not expected from this product.
 Adverse effects not expected from this product.

- Ingestion

Adverse effects not expected from

: Ingestion is not considered a potential route of exposure.

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

See section 11.

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

None.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media	: Water spray or fog.
- Unsuitable extinguishing media	Product does not burn, use fire control measures appropriate for the surrounding fire.Do not use water jet to extinguish.
5.2. Special hazards arising from the substanc	e or mixture
Specific hazards Hazardous combustion products	Supports combustion. Exposure to fire may cause containers to rupture/explode.None.
5.3. Advice for firefighters	
Specific methods	: Use fire control measures appropriate for 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. If possible, stop flow of product. Use water spray or fog to knock down fire fumes if possible. Move containers away from the fire area if this can be done without risk.
Special protective equipment for fire fighters	 Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters. Standard EN 469 - Protective clothing for firefighters. Standard EN 659 - Protective gloves for firefighters. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.



Compressed air

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: RS-02-N2-024

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel :	Act in accordance with local emergency plan. Stay upwind. See section 8 of the SDS for more information on personal protective equipment.	
For emergency responders :	See section 5.3 of the SDS for more information.	
6.2. Environmental precautions		
	None.	
6.3. Methods and material for containment and cleaning up		
	None.	
6.4. Reference to other sections		
	See also sections 8 and 13.	

SECTION 7: Handling and storage	9
7.1. Precautions for safe handling	
Safe use of the product	 The product must be handled in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke while working with the product. Wash hands after use. Only experienced and properly instructed persons should handle gases under pressure. Wear personal protective equipment (See section 8). Consider pressure relief device(s) in gas installations. Ensure the complete gas system was (or is regularily) checked for leaks before use. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Avoid suck back of water, acid and alkalis. Do not breathe gas. Avoid release of product into work area.
Safe handling of the gas receptacle	 Refer to supplier's container handling instructions. Protect containers from physical damage; do not drag, roll, slide or drop. 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 the protection cap is too tight, remove it with adjustable wrench. Never insert sharp objects into the cavities of the cap, this can lead to damage to the valve and leakage. Open valve slowly to avoid pressure shock. If user experiences any difficulty operating valve discontinue use and contact supplier. Never attempt to repair or modify container valves or safety relief devices. Damaged valves should be reported immediately to the supplier. Keep container valve outlets clean and free from contaminants particularly oil and water. Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment. 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. Do not allow backfeed into the container. Suck back of water into the container must be prevented. Do not remove or deface labels provided by the supplier for the identification of the content of the container.
7.2. Conditions for safe storage, including	any incompatibilities Observe all regulations and local requirements regarding storage of containers.
	Containers should not be stored in conditions likely to encourage corrosion.

Container valve guards or caps should be in place.

Containers should be stored in the vertical position and properly secured to prevent them from falling over. Stored containers should be periodically checked for general condition and leakage. 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. Keep away from combustible materials.

7.3. Specific end use(s)

None.



Compressed air

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: RS-O2-N2-024

SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
OEL (Occupational Exposure Limits)	: None available.	
DNEL (Derived-No Effect Level)	: None available.	
PNEC (Predicted No-Effect Concentration)	: None available.	
8.2. Exposure controls		
8.2.1. Appropriate engineering controls		
	Provide adequate general and local exhaust ventilation. Systems under pressure should be regularily checked for leakages. Ensure exposure is below occupational exposure limits (where available). Consider the use of a work permit system e.g. for maintenance activities.	
8.2.2. Individual protection measures, e.g. pers	onal 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 - specifications.	
Skin protection		
- Hand protection	 Wear working gloves when handling gas containers. Standard EN 388 - Protective gloves against mechanical risks, performance level 1 or higher. Recommended types include wrist gloves from leather or synthetic material with equivalent performance, fabric gloves, fabric gloves with leather palms. Wear safety shoes while handling containers 	
- Other	 Wear safety shoes while handling containers. Standard EN ISO 20345 - Personal protective equipment - Safety footwear. 	
Respiratory protection	 Self contained EN ISO 20043 - reisonal protective equipment - Salety footweat. Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. When indicated by a risk assessment, Respiratory Protective Equipment must be used. The selection of the Respiratory Protective Device (RPD) must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected RPD. 	
• Thermal hazards	: None in addition to the above sections.	
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.
Melting point / Freezing point	: Not known.
Boiling point	: Not known.
	It is technically not possible to determine the boiling point or range of this mixture.
	Component with lowest boiling point: Nitrogen -196 °C
Flammability	: Non flammable.
Lower explosion limit	: Not applicable.
Upper explosion limit	: Not applicable.
Flash point	: Not applicable for gases and gas mixtures.
Auto-ignition temperature	: Not available
Decomposition temperature	: Not applicable.
pH	: Not applicable for gases and gas mixtures.



Compressed air

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: RS-O2-N2-024

Viscosity, kinematic	: No reliable data available.
Water solubility [20°C]	: Mixture is partially soluble in water.
Partition coefficient n-octanol/water (Log Kow)	: Not applicable for inorganic products.
Vapour pressure [20°C]	: Not applicable.
Vapour pressure [50°C]	: Not applicable.
Density and/or relative density	: Not applicable for gases and gas mixtures.
Relative vapour density (air=1)	:1
Particle characteristics	: Not applicable for gases and gas mixtures.
	Nanoforms are not relevant for gases and gas mixtures.
9.2. Other information	
9.2.1. Information with regard to physical hazard	d classes
Explosion limits	: Not applicable.
Oxidising properties	: No oxidising properties.
9.2.2. Other safety characteristics	
Molar mass	: 29 g/mol
SECTION 10: Stability and reactivity	
10.1. Reactivity	
	Data for mixtures are not available.
10.2. Chemical stability	
	Stable under normal conditions.
10.3. Possibility of hazardous reactions	
	None.
	This mixture contains components with the following reactivity: Violently oxidises organic
	material.
10.4. Conditions to avoid	
10.4. 00Hallions to avoid	
	Avoid moisture in installation systems.
10.5. Incompatible materials	
	For additional information on compatibility refer to ISO 11114.
10.6. Hazardous decomposition products	
10.0. Hazardous decomposition products	
	None.

SECTION 11: Toxicological information	
11.1. Information on hazard classes as define	ed in Regulation (EC) No 1272/2008
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.
Germ cell mutagenicity	: No known effects from this product.
Carcinogenicity	: No known effects from this product.
Toxic for reproduction : Fertility	: No known effects from this product.
Toxic for reproduction : unborn child	: 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.
11.2. Information on other hazards	
Other information	: The substance/mixture has no endocrine disrupting properties.



Compressed air

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: RS-02-N2-024

SECTION 12: Ecological information

12.1. Toxicity

Assessment EC50 48h - Daphnia magna [mg/l] EC50 72h - Algae [mg/l] LC50 96 h - Fish [mg/l]	 No ecological damage caused by this product. No data available. No data available. No data available. No data available.
Nitrogen (7727-37-9)	
EC50 48h - Daphnia magna [mg/l]	No data available.
EC50 72h - Algae [mg/l]	No data available.
LC50 96 h - Fish [mg/l]	No data available.
Oxygen (7782-44-7)	
EC50 48h - Daphnia magna [mg/l]	No data available.
EC50 72h - Algae [mg/l]	No data available.
LC50 96 h - Fish [mg/l]	No data available.
12.2. Persistence and degradability	
Assessment	No ecological damage caused by this product.
12.3. Bioaccumulative potential	
Assessment	No ecological damage caused by this product.
12.4. Mobility in soil	
Assessment	No ecological damage caused by this product.
12.5. Results of PBT and vPvB assessment	
Assessment	Not classified as PBT or vPvB.
12.6. Endocrine disrupting properties	
Assessment	The substance / mixture has no endocrine disrupting properties.
12.7. Other adverse effects	
	No known effects from this product.
Effect on the ozone layer Effect on global warming	No effect on the ozone layer. No known effects from this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods	
	May be vented to atmosphere. Do not discharge into any place where its accumulation could be dangerous. May be vented to atmosphere in a well ventilated place. Return unused product in original container to supplier.
List of hazardous waste codes (from Commission Decision 2000/532/EC as amended)	: 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04*.
13.2. Additional information	External tractment and diagonal of worth should comply with applicable local and/or

External treatment and disposal of waste should comply with applicable local and/or national regulations.



Compressed air

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: RS-02-N2-024

SECTION 14: Transport information

14.1. UN number or ID number

In accordance with ADR / RID / IMDG / IATA / ADN UN-No. : 1002

14.2. UN proper shipping name

Transport by road/rail/inland waterways (ADR/RID/ADN) Transport by air (ICAO-TI / IATA-DGR)

Transport by sea (IMDG)

Labelling

14.3. Transport hazard class(es)



: AIR, COMPRESSED

: AIR, COMPRESSED

: Air, compressed

2.2 : Non flammable, non-toxic gases.

Transport by road/rail/inland waterways	
(ADR/RID/ADN)	
Class	: 2
Classification code	: 1A
Hazard identification number	: 20
Tunnel Restriction	: E - Passage forbidden through tunnels of category E
Transport by air (ICAO-TI / IATA-DGR)	
Class / Div. (Sub. risk(s))	: 2.2
Transport by sea (IMDG)	
Class / Div. (Sub. risk(s))	: 2.2
Emergency Schedule (EmS) - Fire	: F-C
Emergency Schedule (EmS) - Spillage	: S-V
14.4. Packing group	
Transport by road/rail/inland waterways	: Not applicable.
(ADR/RID/ADN)	
Transport by air (ICAO-TI / IATA-DGR)	: Not applicable.
Transport by sea (IMDG)	: Not applicable.
14.5. Environmental hazards	
Transport by road/rail/inland waterways	: None.
(ADR/RID/ADN)	
Transport by air (ICAO-TI / IATA-DGR)	: None.
Transport by sea (IMDG)	: None.
14.6. Special precautions for user	
Packing Instruction(s)	
Transport by road/rail/inland waterways	: P200.
(ADR/RID/ADN)	
Transport by air (ICAO-TI / IATA-DGR)	
Passenger and Cargo Aircraft	: 200.
Cargo Aircraft only	: 200.
Transport by sea (IMDG)	: P200.
Special transport precautions	: 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 there is adequate ventilation.
	- Ensure that containers are firmly secured.
	- Ensure valve is closed and not leaking.
	- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.

- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
- Ensure valve protection device (where provided) is correctly fitted.



Compressed air

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: RS-02-N2-024

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information

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

RS Regulations

Pravilnik o ograničenjima i zabranama proizvodnje, stavljanja u promet i korišćenja hemikalija ("SI. glasnik RS", br. 105/2013, 52/2017, 21/2019 i 29/2024)		None.
Pravilnik o Listi opasnih materija i njihovim količinama i kriterijumima za određivanje vrste dokumenta koje izrađuje operater seveso postrojenja, odnosno kompleksa ("SI. glasnik RS", br. 41/2010, 51/2015 i 50/2018)	:	Not covered.
EU Regulations		
Restrictions on use Other information, restriction and prohibition		Contains no substance(s) listed on the REACH Candidate List. Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the
regulations		export and import of hazardous chemicals). Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants).
Seveso Directive : 2012/18/EU (Seveso III)	:	Not covered.
15.2. Chemical safety assessment		

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

SECTION 16: Other information	
Indication of changes	 Revised safety data sheet in accordance with commission regulation (EU) No 2020/878. In Section 1, the Safety Data Sheet is supplemented with information about relevant identified uses of the substance or mixture and uses advised against. In Section 5, the Safety Data Sheet is supplemented with information about special hazard arising from the substance or mixture. In Section 8, the Safety Data Sheet is supplemented with information about exposure control and personal protection.
Abbreviations and acronyms	 control and personal protection. ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road ATE - Acute Toxicity Estimate CAS - Chemical Abstract Service number CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 CSA - Chemical Safety Assessment DNEL - Derived No Effect Levels EINECS - European Inventory of Existing Commercial Chemical Substances EC - European Community number EIGA - European Industrial Gases Association EN - European Standard IATA - International Air Transport Association ICAO - International Air Transport Association IMDG code - International Maritime Dangerous Goods IMO - International Maritime Organization LC50 - Lethal Concentration to 50 % of a test population LD50 - Lethal Dose 50% LEL - Lower Explosive Limit OEL - Occupational exposure limits PBT - Persistent, Bioaccumulative and Toxic PNEC - Predicted No Effect Concentration PPE - Personal Protection Equipment
	REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 RID - Regulations concerning the International Carriage of Dangerous Goods by Rail



Compressed air

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Reference number: RS-O2-N2-024

	RMM - Risk Management Measures
	STOT - RE - Specific Target Organ Toxicity - Repeated Exposure
	STOT- SE - Specific Target Organ Toxicity - Single Exposure
	STEL - Short Term Exposure Limit
	TWA –8-hour total weight average
	UEL - Upper explosive limit
	UFI - Unique Formula Identifier
	UN - United Nations
	vPvB - Very Persistent and Very Bioaccumulative
	WGK - Water Hazard Class
Training advice	: The hazard of asphyxiation is often overlooked and must be stressed during operator
	training. For more guidance, refer to EIGA SL 01 "Dangers of Asphyxiation", downloadable
	at http://www.eiga.eu
Further information	: Classification in accordance with the procedures and calculation methods of Regulation
	(EC) 1272/2008 (CLP). Key literature references and sources of data are maintained in
	EIGA doc 169 : 'Classification and Labelling Guide', downloadable at http://www.eiga.eu

I text of H- and EUH-statements			
H270	May cause or intensify fire; oxidiser.		
H280	Contains gas under pressure; may explode if heated.		
Ox. Gas 1	Oxidising Gases, Category 1		
Press. Gas (Comp.)	Gases under pressure : Compressed gas		

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