

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 16/10/2013 Revision date: 25/02/2025 Supersedes version of: 22/07/2024 Version: 1.3

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

#### 1.1. Product identifier

Product form : Mixture

Name : O2 21 %:N2 79 %

Trade name : Compressed Air, breathing air, air synthetic med.

Product code : 000010022047 Other means of identification : Compressed Air

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

#### 1.2.1. Relevant identified uses

Relevant identified uses : Industrial and professional uses. Perform risk assessment prior to use.

Perform risk assessment prior to use.

1.2.2. Uses advised against

Uses advised against : Consumer use.

Uses other than those listed above are not supported, contact your supplier for more

information on other uses.

Restrictions on use : Industrial or technical grade is unsuitable for medical and/or food applications or inhalation.

## 1.3. Details of the supplier of the safety data sheet

Linde Gas GmbH Carl-von-Linde-Platz 1 A-4651 Stadl-Paura Austria T +43 50 4273

office@at.linde-gas.com

#### 1.4. Emergency telephone number

Emergency number : UMCO/NCEC: +44 1865 407333 (English); +49 89 220 61012 (German)

## **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

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

## Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

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#### 2.2. Label elements

#### Labelling 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)

- Storage : P403 - Store in a well-ventilated place.

#### 2.3. Other hazards

Other hazards : Not classified as PBT or vPvB. The substance/mixture has no endocrine disrupting

properties.

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## **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] ATE, EUH-statements, M-Factors
Nitrogen (Main constituent)	CAS-No.: 7727-37-9 EC-No.: 231-783-9 REACH-no: *1	79	Press. Gas (Comp.), H280
Oxygen (Component)	CAS-No.: 7782-44-7 EC-No.: 231-956-9 EC Index-No.: 008-001-00-8 REACH-no: *1	21	Ox. Gas 1, H270 Press. Gas (Comp.), H280

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

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

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Adverse effects not

expected from this product.

First-aid measures after skin contact : Adverse effects not expected from this product. Wash skin with plenty of water.

First-aid measures after eye contact : Adverse effects not expected from this product. Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell. Ingestion is not considered a potential

route of exposure.

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<sup>\*1:</sup> Listed in Annex IV / V REACH, exempted from registration.

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

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

Most important symptoms and effects, both acute

See section 11.

and delayed

## 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. Water spray. Dry powder. Foam. Product does not burn, use fire control

measures appropriate for the surrounding fire.

Unsuitable extinguishing media : Do not use water jet to extinguish.

## 5.2. Special hazards arising from the substance or mixture

Reactivity in case of fire : No reactivity hazard other than the effects described in sub-sections below.

Hazardous decomposition products in case of fire

Specific hazards

: Toxic fumes may be released.

: Supports combustion.

Exposure to fire may cause containers to rupture/explode.

Hazardous combustion products : None.

#### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

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. EN 15090 Footwear for firefighters. EN 443 Helmets for fire fighting in

buildings and other structures.

Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full

face mask.

## **SECTION 6: Accidental release measures**

## 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

Emergency procedures : Act in accordance with local emergency plan. Ventilate spillage area. Stay upwind. See

section 8 of the SDS for more information on personal protective equipment.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

Emergency procedures : See section 5.3 of the SDS for more information.

### 6.2. Environmental precautions

Avoid release to the environment. None.

#### 6.3. Methods and material for containment and cleaning up

Other information : Dispose of materials or solid residues at an authorized site.

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Methods and material for containment and cleaning : Ventilate area. up None.

#### 6.4. Reference to other sections

For further information refer to section 13. See also sections 8 and 13.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling

Hygiene measures

Safe use of the product

Sale use of the produc

Safe handling of the gas receptacle

: Ensure good ventilation of the work station. Wear personal protective equipment.

: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

 The product must be handled in accordance with good industrial hygiene and safety procedures

Only experienced and properly instructed persons should handle gases under pressure. Consider pressure relief device(s) in gas installations.

Ensure the complete gas system was (or is regularily) checked for leaks before use.

Do not smoke while handling product.

Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.

Use only oxygen approved lubricants and oxygen approved sealings.

Avoid suck back of water, acid and alkalis.

Do not breathe gas.

Avoid release of product into work area.

: Refer to supplier's container handling instructions.

Do not allow backfeed into the container.

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 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.

Close container valve after each use and when empty, even if still connected to 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 remove or deface labels provided by the supplier for the identification of the content of the container.

Suck back of water into the container must be prevented.

Open valve slowly to avoid pressure shock.

## 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

Conditions for safe storage, including any incompatibilities

: Store in a well-ventilated place. Keep cool.

: 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.

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#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

O2 21 %;N2 79 %		
DNEL/DMEL (additional information)		
Additional information None available.		
PNEC (additional information)		
Additional information None available.		

#### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

#### Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station. 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.

#### **Personal protection equipment**

#### Personal 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.

#### Personal protective equipment symbol(s):





#### Eye and face protection

#### Eye protection:

Wear safety glasses with side shields. Safety glasses. Standard EN 166 - Personal eye-protection - specifications

#### **Skin protection**

## Skin and body protection:

Wear suitable protective clothing

#### 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.

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#### **Respiratory protection**

#### Respiratory protection:

Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. Self contained breathing apparatus is recommended, where unknown exposure may be expected, e.g. during maintenance activities on installation systems. 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

#### Thermal hazard protection:

None in addition to the above sections.

#### **Environmental exposure controls**

#### **Environmental exposure controls:**

Refer to local regulations for restriction of emissions to the atmosphere. See section 13 for specific methods for waste gas treatment. Avoid release to the environment. None necessary.

#### Other information:

Wear safety shoes while handling containers. Standard EN ISO 20345 - Personal protective equipment - Safety footwear.

## **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Appearance

Physical state : Gas Colour : Colourless. Form Compressed gas Odour Odourless.

Odour threshold Odour threshold is subjective and inadequate to warn of overexposure.

Not applicable for gases and gas mixtures. Melting point

Freezing point Not applicable

Boiling point Not applicable for gas mixtures.

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. Oxidising properties No oxidising properties. **Explosive limits** Non flammable.

Lower explosion limit Not available Upper explosion limit Not available

Not applicable for gases and gas mixtures. Flash point

: Non flammable. Auto-ignition temperature Decomposition temperature Not applicable.

: Not applicable for gases and gas mixtures. pН Viscosity, kinematic : Not applicable for gases and gas mixtures. Not applicable for gases and gas mixtures. Viscosity, dynamic Not known, but considered to have low solubility. Solubility in water

Partition coefficient n-octanol/water (Log Kow) : Not available

Partition coefficient n-octanol/water (Log Pow) : Not applicable for gas mixtures.

Vapour pressure : Not applicable. Vapour pressure at 50°C : Not applicable. : Not applicable Density Relative density Not applicable

Relative vapour density at 20°C Not applicable for gases and gas mixtures.

Relative gas density Lighter or similar to air.

Particle characteristics Not applicable

Not applicable for gases and gas mixtures.

## 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

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#### 9.2.2. Other safety characteristics

Gas group : Compressed gas

Additional information : None.

## **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

Data for mixtures are not available.

This mixture contains components with the following reactivity: Violently oxidises organic material.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions 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

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological information**

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

Acute toxicity : No known toxicological effects by inhalation from this product.

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Skin corrosion/irritation : No known effects from this product.

pH: Not applicable for gases and gas mixtures.

Nitrogen (7727-37-9)		
pH Not applicable for gases and gas mixtures.		
Oxygen (7782-44-7)		
pH Not applicable for gases and gas mixtures.		
Sorious ava damaga/irritation . No known offects from this product		

Serious eye damage/irritation : No known effects from this product.

pH: Not applicable for gases and gas mixtures.

Nitrogen (7727-37-9)

pH Not applicable for gases and gas mixtures.

## Oxygen (7782-44-7)

pH Not applicable for gases and gas mixtures.

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.

Reproductive toxicity : Not classified

Toxic for reproduction : Fertility : No known effects from this product.

Toxic for reproduction : unborn child : No known effects from this product.

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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.

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O2 21 %;N2 79 %	
Viscosity, kinematic Not applicable for gases and gas mixtures.	
Nitrogen (7727-37-9)	
Viscosity, kinematic Not applicable for gases and gas mixtures.	
Oxygen (7782-44-7)	
Viscosity, kinematic	No reliable data available.

## 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

: The substance/mixture has no endocrine disrupting properties.

#### 11.2.2. Other information

No additional information available

## **SECTION 12: Ecological information**

## 12.1. Toxicity

Assessment : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

Hazardous to the aquatic environment, long-term

razardous to the aquatic environment, long-term

(chronic)

Not rapidly degradable

: Not classified

: Not classified

O2 21 %;N2 79 %		
LC50 96 h - Fish [mg/l]	No data available.	
EC50 48h - Daphnia magna [mg/l]	No data available.	
EC50 72h - Algae [mg/l]	No data available.	
Nitrogen (7727-37-9)		
LC50 96 h - Fish [mg/l]	No data available.	
EC50 48h - Daphnia magna [mg/l]	No data available.	
EC50 72h - Algae [mg/l]	No data available.	
Oxygen (7782-44-7)		
LC50 96 h - Fish [mg/l]	No data available.	
EC50 48h - Daphnia magna [mg/l]	No data available.	
EC50 72h - Algae [mg/l]	No data available.	

## 12.2. Persistence and degradability

O2 21 %;N2 79 %	
Assessment	No ecological damage caused by this product.

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Nitrogen (7727-37-9)		
Assessment No ecological damage caused by this product.		
Oxygen (7782-44-7)		
Assessment	No ecological damage caused by this product.	

## 12.3. Bioaccumulative potential

O2 21 %;N2 79 %		
Partition coefficient n-octanol/water (Log Pow)  Not applicable for gas mixtures.		
Assessment	No data available.	
Nitrogen (7727-37-9)		
Partition coefficient n-octanol/water (Log Pow)	Not applicable for gas mixtures.	
Partition coefficient n-octanol/water (Log Kow)	Not applicable for inorganic products.	
	No ecological damage caused by this product.	
Oxygen (7782-44-7)		
Partition coefficient n-octanol/water (Log Pow)	Not applicable for gas mixtures.	
Partition coefficient n-octanol/water (Log Kow)	Not applicable for inorganic products.	
	No ecological damage caused by this product.	

## 12.4. Mobility in soil

O2 21 %;N2 79 %	
Assessment Because of its high volatility, the product is unlikely to cause ground or water pollution Partition into soil is unlikely.	
Nitrogen (7727-37-9)	
Ecology - soil No ecological damage caused by this product.	
Oxygen (7782-44-7)	
Ecology - soil	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

Other adverse effects : No known effects from this product.

Assessment : The substance/mixture has no endocrine disrupting properties.

Adverse effects on the environment caused by : The substance/mixture has no endocrine disrupting properties.

endocrine disrupting properties

## 12.7. Other adverse effects

Other adverse effects : No known effects from this product.

Effect on the ozone layer : No effect on the ozone layer.

Effect on global warming : No known effects from this product.

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## **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods

: Contact supplier if guidance is required. Ensure that the emission levels from local regulations or operating permits are not exceeded. Refer to the EIGA code of practice Doc.30 "Disposal of Gases", downloadable at http://www.eiga.eu for more guidance on suitable disposal methods. Dispose of contents/container in accordance with licensed collector's sorting instructions. May be vented to atmosphere in a well ventilated place. Do not discharge into any place where its accumulation could be dangerous. 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 treatment and disposal of waste should comply with applicable local and/or national regulations.

## **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID n	umber			
UN 1002	UN 1002	UN 1002	UN 1002	UN 1002
14.2. UN proper shipping	g name			
AIR, COMPRESSED	AIR, COMPRESSED	Air, compressed	Not applicable	Not applicable
ransport document descr	iption			
UN 1002 AIR, COMPRESSED, 2.2, (E)	UN 1002 AIR, COMPRESSED, 2	UN 1002 Air, compressed, 2.2	UN 1002 , 2.2	UN 1002 , 2.2
14.3. Transport hazard o	class(es)			
2.2	2.2	2.2	2.2	2.2
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental haz	ards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No

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## 14.6. Special precautions for user

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 protection device (where provided) is

correctly fitted.

#### **Overland transport**

Classification code (ADR) : 1A

Special provisions (ADR) : 392, 397, 655, 662

Limited quantities (ADR) : 120ml
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P200
Vehicle for tank carriage : AT
Transport category (ADR) : 3
Tunnel restriction code (ADR) : E

#### Transport by sea

Limited quantities (IMDG) : 120 ml
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P200
Stowage category (IMDG) : A

Properties and observations (IMDG) : Non-flammable gas.

#### Air transport

PCA Excepted quantities (IATA) : E1 PCA Limited quantities (IATA) Forbidden PCA limited quantity max net quantity (IATA) Forbidden PCA packing instructions (IATA) 200 PCA max net quantity (IATA) 75kg CAO packing instructions (IATA) 200 CAO max net quantity (IATA) 150kg : A221, A302 Special provisions (IATA) ERG code (IATA) . 2L

,

#### Inland waterway transport

Classification code (ADN) : 1A

Special provisions (ADN) : 392, 397, 655, 662

Limited quantities (ADN) : 120 ml Excepted quantities (ADN) : E1 Equipment required (ADN) : PP

#### Rail transport

Classification code (RID) : 1A

Special provisions (RID) : 392, 397, 655, 662

Excepted quantities (RID) : E1

Portable tank and bulk container instructions (RID) : (M)

Tank codes for RID tanks (RID) : CxBN(M)

Special provisions for RID tanks (RID) : TA4, TT9

Transport category (RID) : 3

Colis express (express parcels) (RID) : CE3

Hazard identification number (RID) : 20

## 14.7. Maritime transport in bulk according to IMO instruments

IBC code : Not applicable.

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### **SECTION 15: Regulatory information**

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

#### 15.1.1. EU-Regulations

#### **REACH Annex XVII (Restriction List)**

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

#### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### **POP Regulation (Persistent Organic Pollutants)**

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

#### VOC Directive (2004/42)

Restrictions on use

#### **Seveso Directive (Disaster Risk Reduction)**

Seveso Directive: 2012/18/EU (Seveso III) : Not covered.

#### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### **Drug Precursors Regulation (273/2004)**

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

Ensure all national/local regulations are observed.

Safety data sheet in accordance with commission regulation (EU) No 2020/878.

Council Directive 89/391/EEC on the introduction of measures to encourage improvements in the safety and health of workers at work Directive 2016/425/EEC on personal protective equipment

Directive 2014/34/EU on equipment and protective systems intended for use in potentially explosive atmospheres (ATEX)

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

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

No chemical safety assessment has been carried out

## **SECTION 16: Other information**

## Indication of changes:

Safety data sheet in accordance with commission regulation (EU) No 2020/878.

Abbreviations and acronyms:	
ADR European Agreement concerning the International Carriage of Dangerous Goods by Road	
BCF Bioconcentration factor	
EC-No. European Community number	

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Abbreviations and acronyms:		
SDS	Safety Data Sheet	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
CAO	Cargo Aircraft only / Cargo Aircraft only	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
CAS-No.	Chemical Abstract Service number	
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
EC	European Inventory of Existing Commercial Chemical Substances	
ED	Endocrine disruptor	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
IOELV	Indicative Occupational Exposure Limit Value	
LC50	Median lethal concentration	
LD50	Median lethal dose	
LOAEL	Lowest Observed Adverse Effect Level	
NOAEC	No-Observed Adverse Effect Concentration	
NOAEL	No-Observed Adverse Effect Level	
NOEC	No-Observed Effect Concentration	
N.O.S.	Not Otherwise Specified	
OECD	Organisation for Economic Co-operation and Development	
OEL	Occupational Exposure Limit	
PBT	Persistent Bioaccumulative Toxic	
PCA	Passenger and Cargo Aircraft / Passenger and Cargo Aircraft	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
STP	Sewage treatment plant	
ThOD	Theoretical oxygen demand (ThOD)	
TLM	Median Tolerance Limit	
TRGS	Technical Rules for Hazardous Substances	
STOT-RE	Specific Target Organ Toxicity-Repeated Exposure	

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Abbreviations and acronyms:	
STOT-SE	Specific Target Organ Toxicity-Single Exposure
UFI	Unique Formula Identifier
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

Training advice

: None.

Other information

: Classification using data from databases maintained by the European Industrial Gases Association (EIGA). Data is maintained in EIGA doc 169: 'Classification and Labelling Guide', downloadable at: http://www.eiga.eu. Classification in accordance with the procedures and calculation methods of Regulation (EC) 1272/2008 (CLP).

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

The classification complies with DISCLAIMER OF LIABILITY

: ATP 12

: Before using this product in any new process or experiment, a thorough material  $\ensuremath{\mathsf{I}}$ 

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.

Safety Data Sheet (SDS), EU AT

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

End of document