

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 16/10/2013 Revision date: 09/01/2025 Supersedes version of: 17/08/2021 Version: 1.7

SECTION 1: Identification of the substance/mixture and of the company/undertaking **1.1. Product identifier** Product form : Mixture Name : CO2 30 %;O2 70 % : Gasart 207 Biogon® OC30, E948/E290 Trade name : W3GC-CVJM-EW0N-HGP6 UFI : 000010022206 Product code 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 use for chemical analysis, calibration, (routine) quality control, laboratory use, under controlled conditions. Perform risk assessment prior to use. : Food packaging gas. Use of the substance/mixture It is the responsibility of the end user to ensure that the product as supplied is suitable for its intended 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. 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	Oxidising Gases, Category 1	H270
	Gases under pressure : Compressed gas	H280

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



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Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements	
Labelling according to Regulation (EC) No. 1272/200	08 [CLP]
Hazard pictograms (CLP)	
	GHS03 GHS04
Signal word (CLP)	: Danger
Hazard statements (CLP)	: H270 - May cause or intensify fire; oxidiser.
	H280 - Contains gas under pressure; may explode if heated.
Precautionary statements (CLP)	
- Prevention	: P220 - Keep away from combustible materials.
	P244 - Keep valves and fittings free from oil and grease.
- Response	: P370+P376 - In case of fire: Stop leak if safe to do so.
- 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]
Oxygen (Main constituent)	CAS-No.: 7782-44-7 EC-No.: 231-956-9 EC Index-No.: 008-001-00-8 REACH-no: *1	70	Ox. Gas 1, H270 Press. Gas (Comp.), H280
Carbon dioxide (Component)	CAS-No.: 124-38-9 EC-No.: 204-696-9 REACH-no: *1	30	Press. Gas (Liq.), H280

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.

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



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SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures after inhalation	: Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped.	
First-aid measures after skin contact	: Adverse effects not expected from this product.	
First-aid measures after eye contact	: Adverse effects not expected from this product.	
First-aid measures after ingestion	: Ingestion is not considered a potential route of exposure.	
4.2. Most important symptoms and effects, both	acute and delayed	
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 Unsuitable extinguishing media	 Water spray or fog. 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 substance of	or mixture
Reactivity in case of fire Specific hazards Hazardous combustion products	 No reactivity hazard other than the effects described in sub-sections below. Supports combustion. Exposure to fire may cause containers to rupture/explode. None.
5.3. Advice for firefighters	
Specific methods Special protective equipment for fire fighters	 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. 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.

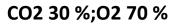


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SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and	d emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures :	Act in accordance with local emergency plan. Try to stop release. Evacuate area. Eliminate ignition sources. Ensure adequate air ventilation. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Stay upwind. See section 8 of the SDS for more information on personal protective equipment.	
6.1.2. For emergency responders		
Emergency procedures :	Monitor concentration of released product. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. See section 5.3 of the SDS for more information.	
6.2. Environmental precautions		
Try to stop release.		
6.3. Methods and material for containment and cleaning up		
Methods and material for containment and cleaning up :	Ventilate area.	
6.4. Reference to other sections		
See also sections 8 and 13.		

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Safe use of the product	 Keep equipment free from oil and grease. For more guidance, refer to the EIGA Doc. 33 - Cleaning of Equipment for Oxygen Service downloadable at http://www.eiga.eu. Use no oil or grease. 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.



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Safe handling of the gas receptacle	: 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 a	ny incompatibilities
Conditions for safe storage, including any	: Segregate from flammable gases and other flammable materials in store.
incompatibilities	Observe all regulations and local requirements regarding storage of containers.

incompatibilities	observe un regulations una local requirements regularing 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Carbon dioxide (124-38-9)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Carbon dioxide	
IOEL TWA	9000 mg/m³	
IOEL TWA [ppm]	5000 ppm	
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC	

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Carbon dioxide (124-38-9)		
Austria - Occupational Exposure Limits		
Local name	Kohlenstoffdioxid	
MAK (OEL TWA)	9000 mg/m ³	
MAK (OEL TWA) [ppm]	5000 ppm	
MAK (OEL STEL)	18000 mg/m³ (3x 60(Mow) min)	
MAK (OEL STEL) [ppm]	10000 ppm (3x 60(Mow) min)	
Regulatory reference	BGBI. II Nr. 156/2021	

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

CO2 30 %;O2 70 %		
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

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Provide adequate general and local exhaust ventilation. Gas detectors should be used when oxidising gases may be released. Consider the use of a work permit system e.g. for maintenance activities. Systems under pressure should be regularily checked for leakages. Ensure exposure is below occupational exposure limits (where available).

8.2.2. 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):



8.2.2.1. Eye and face protection

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



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8.2.2.2. Skin protection

Hand protection:

Wear working gloves when handling gas containers. Standard EN 388 - Protective gloves against mechanical risks, performance level 1 or higher.

Other skin protection

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

Other information:

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

8.2.2.3. Respiratory protection

Respiratory protection:

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.

8.2.2.4. Thermal hazards

Thermal hazard protection:

None in addition to the above sections.

8.2.3. 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.

SECTION 9: Physical and chemical properties				
9.1. Information on basic physical and c	hemical properties			
Appearance				
Physical state	: Gas			
Colour	: Colourless.			
Form	: Compressed gas			
Odour	: Odourless.			
Odour threshold	: Odour threshold is subjective and inadequate to warn of overexposure.			
Melting point	: Not applicable for gases and gas mixtures.			
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: Oxygen -183 °C			
Flammability	: Non flammable.			
Oxidising properties	: Oxidiser.			
Explosive limits	: Non flammable.			
Lower explosion limit	: Not available			
Upper explosion limit	: Not available			
Flash point	: Not applicable for gases and gas mixtures.			
Auto-ignition temperature	: Non flammable.			
Decomposition temperature	: Not applicable.			
рН	: Not applicable for gases and gas mixtures.			
Viscosity, kinematic	: Not applicable for gases and gas mixtures.			



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Viscosity, dynamic	: Not applicable for gases and gas mixtures.
Solubility in water	: Not known.
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.
Density	: Not applicable
Relative density	: Not applicable
Relative vapour density at 20°C	: Not applicable for gases and gas mixtures.
Relative gas density	: Heavier than 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 cla	sses
Oxidising power (OP)	: Oxidising power, based on ISO10156 calculation : 60.87 %

9.2.2. Other safety characteristics

Gas group	: Compressed gas
Additional 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

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

Violently oxidises organic material.

10.4. Conditions to avoid

Avoid moisture in installation systems.

10.5. Incompatible materials

May react violently with combustible materials. May react violently with reducing agents. Keep equipment free from oil and grease. For more guidance, refer to the EIGA Doc. 33 - Cleaning of Equipment for Oxygen Service downloadable at http://www.eiga.eu. 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.



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Adverse health effects caused by endocrine disrupting : The substance/mixture has no endocrine disrupting properties.

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11.2.2. Other information

Other information

: For more information, see 'EIGA Safety Info 24: Carbon Dioxide, Physiological Hazards' at www.eiga.eu,Unlike simple asphyxiants, carbon dioxide has the ability to cause death even when normal oxygen levels (20-21%) are maintained. 5% CO2 has been found to act synergistically to increase the toxicity of certain other gases (CO, NO2). CO2 has been shown to enhance the production of carboxy- or met-hemoglobin by these gases possibly due to carbon dioxide's stimulatory effects on the respiratory and circulatory systems.

SECTION 12: Ecological information

12.1. Toxicity : No ecological damage caused by this product. Assessment Hazardous to the aquatic environment, short-term : Not classified (acute) Hazardous to the aquatic environment, long-term : Not classified (chronic) Not rapidly degradable CO2 30 %;O2 70 % 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. Carbon dioxide (124-38-9) 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 CO2 30 %;O2 70 % Assessment No ecological damage caused by this product. Carbon dioxide (124-38-9) Assessment No ecological damage caused by this product. Oxygen (7782-44-7) Assessment No ecological damage caused by this product.





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12.3. Bioaccumulative potential				
CO2 30 %;O2 70 %				
Partition coefficient n-octanol/water (Log Pow)	Not applicable for gas mixtures.			
Assessment	essment No ecological damage caused by this product.			
Carbon dioxide (124-38-9)				
Partition coefficient n-octanol/water (Log Pow)	0.83			
Partition coefficient n-octanol/water (Log Kow)	0.83			
	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

CO2 30 %;O2 70 %			
Assessment	No ecological damage caused by this product.		
Carbon dioxide (124-38-9)			
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			
Assessment	 No known effects from this product. The substance/mixture has no endocrine disrupting properties. The substance/mixture has no endocrine disrupting properties. 		

12.7. Other adverse effects	
Other adverse effects	: No known effects from this product.
Effect on the ozone layer Effect on global warming	No effect on the ozone layer.Contains greenhouse gas(es).



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SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	Contact supplier if guidance is required. May be vented to atmosphere in a well ventilated place. 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. 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 04 *: Gases in pressure containers (including halons) containing hazardous substances.
HP Code	: HP2 - "Oxidising:" waste which may, generally by providing oxygen, cause or contribute to the combustion of other materials.
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	ΙΑΤΑ	ADN	RID
14.1. UN number or ID num	ber		I	I
UN 3156	UN 3156	UN 3156	UN 3156	UN 3156
14.2. UN proper shipping na	ame			<u>.</u>
COMPRESSED GAS, OXIDIZING, N.O.S. (Oxygen, Carbon Dioxide)	COMPRESSED GAS, OXIDIZING, N.O.S. (Oxygen, Carbon Dioxide)	Compressed gas, oxidizing, n.o.s. (Oxygen, Carbon Dioxide)	COMPRESSED GAS, OXIDIZING, N.O.S. (Oxygen, Carbon Dioxide)	COMPRESSED GAS, OXIDIZING, N.O.S. (Oxygen, Carbon Dioxide)
Transport document descriptio	'n		1	
UN 3156 COMPRESSED GAS, OXIDIZING, N.O.S. (Oxygen, Carbon Dioxide), 2.2 (5.1), (E) 14.3. Transport hazard class	UN 3156 COMPRESSED GAS, OXIDIZING, N.O.S. (Oxygen, Carbon Dioxide), 2.2 (5.1)	UN 3156 Compressed gas, oxidizing, n.o.s. (Oxygen, Carbon Dioxide), 2.2 (5.1)	UN 3156 COMPRESSED GAS, OXIDIZING, N.O.S. (Oxygen, Carbon Dioxide), 2.2 (5.1)	UN 3156 COMPRESSED GAS, OXIDIZING, N.O.S. (Oxygen, Carbon Dioxide), 2.2 (5.1)
2.2 (5.1)	2.2 (5.1)	2.2 (5.1)	2.2 (5.1)	2.2 (5.1)
14.4. Packing group			1	1
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable



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ADR	IMDG	ΙΑΤΑ	ADN	RID
14.5. Environmental hazards				
Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the
environment: No	environment: No	environment: No	environment: No	environment: No
	Marine pollutant: No			
No supplementary information avail	able	1		
14.6. Special precautions for use	er			
Special transport precautions	En evi ad lea	oid transport on vehicles where t sure vehicle driver is aware of the ent of an accident or an emergen equate ventilation, - Ensure that o king, - Ensure valve outlet cap nu otection device (where provided)	e potential hazards of the load ar cy, Before transporting product of containers are firmly secured, - E t or plug (where provided) is cor	d knows what to do in the containers: - Ensure there is nsure valve is closed and not
Overland transport				
Classification code (ADR)	: 10	1		
ipecial provisions (ADR)	: 27	4, 655, 662		
imited quantities (ADR)	: 0			
xcepted quantities (ADR)	: EO			
acking instructions (ADR)	: P2	00		
ehicle for tank carriage	: AT			
ransport category (ADR)	: 3			
lazard identification number (Kemle	r No.) : 25			
Drange plates	:	25 3156		
Funnel restriction code (ADR)	: E			
ransport by sea				
pecial provisions (IMDG)	: 27	4		
imited quantities (IMDG)	: 0			
xcepted quantities (IMDG)	: EO			
acking instructions (IMDG)	: P2			
mS-No. (Fire)	: F-C			
EmS-No. (Spillage)	: S-\	V		
towage category (IMDG)	: D			
ir transport				
PCA Excepted quantities (IATA)	: EO			
CA Limited quantities (IATA)	: FO	RBIDDEN		
CA limited quantity max net quantit	y (IATA) : FO	RBIDDEN		
CA packing instructions (IATA)	: 20	0		
CA max net quantity (IATA)	: 75			
CAO packing instructions (IATA)	: 20			
CAO max net quantity (IATA)	: 15	Okg		
ERG code (IATA)	: 2X			



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Inland waterway transport		
Classification code (ADN)	:	10
Special provisions (ADN)	:	274, 655, 662
Limited quantities (ADN)	:	0
Excepted quantities (ADN)	:	EO
Equipment required (ADN)	:	РР
Number of blue cones/lights (ADN)	:	0
Rail transport		
Classification code (RID)	:	10
Special provisions (RID)	:	274, 655, 662
Limited quantities (RID)	:	0
Excepted quantities (RID)	:	EO
Packing instructions (RID)	:	P200
Mixed packing provisions (RID)	:	MP9
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
Special provisions for carriage - Loading, unloading and	:	CW9, CW10, CW36
handling (RID)		
Colis express (express parcels) (RID)	:	CE3
Hazard identification number (RID)	:	25

14.7. Maritime transport in bulk according to IMO instruments

IBC code

: Not applicable.

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 1005/2009 on substances that deplete the ozone layer)

VOC Directive (2004/42)

Restrictions on use



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Seveso Directive (Disaster Risk Reduction)

Seveso Directive : 2012/18/EU (Seveso III)

 Seveso III Part I (Categories of dangerous substances)
 Qualifying quantity (tonumber of the second sec

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)

: Covered.

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.

SECTION 16: Other information

Indication of changes:

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

Abbreviations and acronyms:		
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	



Safety Data Sheet

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

Abbreviations and acronyms:		
EC	European Inventory of Existing Commercial Chemical Substances	
ED	Endocrine disrupting properties	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	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	
РВТ	Persistent Bioaccumulative Toxic	
РСА	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	
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

: Ensure operators understand the hazard of oxygen enrichment.



Safety Data Sheet

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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:		
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	
Press. Gas (Liq.)	Gases under pressure : Liquefied gas	

The classification complies with DISCLAIMER OF LIABILITY

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 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.

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