

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 16/10/2013 Revision date: 21/02/2025 Supersedes version of: 21/11/2024 Version: 1.3

1.1. Product identifier	
	. Minture
Product form Name	: Mixture : CO2 2 %; He 20 %;Ar 78 %
Trade name	: Gasart 566 Cronigon® 2He20
Product code	: 000010022115
1.2. Relevant identified uses of the sub	stance or mixture and uses advised against
1.2.1. Relevant identified uses	
Relevant identified uses	<ul> <li>Industrial and professional use for chemical analysis, calibration, (routine) quality control, laboratory use, under controlled conditions.</li> <li>Perform risk assessment prior to use.</li> </ul>
1.2.2. Uses advised against	
Jses 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 F +43 50 4273 <u>office@at.linde-gas.com</u>	
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 r	mixture
Classification according to Regulation (EC)	No. 1272/2008 [CLP]
Physical hazards Gases under press	ure : Compressed gas H280
Full text of H- and EUH-statements: see section	216
Adverse physicochemical, human health and No additional information available	a environmental effects
2.2. Label elements	
Labelling according to Regulation (EC) No. 1 Hazard pictograms (CLP)	272/2008 [CLP]

## Safety Data Sheet

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

Signal word (CLP) Hazard statements (CLP)	GHS04 : Warning : H280 - Contains gas under pressure; may explode if heated.
Precautionary statements (CLP) - Storage Supplemental information	<ul><li>P403 - Store in a well-ventilated place.</li><li>Asphyxiant in high concentrations.</li></ul>
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
Argon (Main constituent)	CAS-No.: 7440-37-1 EC-No.: 231-147-0 REACH-no: *1	78	Press. Gas (Comp.), H280
Helium (Component)	CAS-No.: 7440-59-7 EC-No.: 231-168-5 REACH-no: *1	20	Press. Gas (Comp.), H280
Carbon dioxide (Component)	CAS-No.: 124-38-9 EC-No.: 204-696-9 REACH-no: *1	2	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

## 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 First-aid measures after eye contact	<ul><li>Adverse effects not expected from this product.</li><li>Adverse effects not expected from this product.</li></ul>
First-aid measures after ingestion	: Ingestion is not considered a potential route of exposure.

### Safety Data Sheet

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

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

Most important symptoms and effects, both acute and delayed

In high concentrations may cause asphyxiation. Symptoms may include loss of mobility/consciousness. Victim may not be aware of asphyxiation. 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	<ul> <li>Water spray or fog. Product does not burn, use fire control measures appropriate for the surrounding fire.</li> <li>Do not use water jet to extinguish.</li> </ul>
5.2. Special hazards arising from the sub	bstance or mixture
Reactivity in case of fire Specific hazards Hazardous combustion products	<ul> <li>No reactivity hazard other than the effects described in sub-sections below.</li> <li>Exposure to fire may cause containers to rupture/explode.</li> <li>None.</li> </ul>
5.3. Advice for firefighters	
Specific methods Special protective equipment for fire fighters	<ul> <li>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.</li> <li>If possible, stop flow of product.</li> <li>Use water spray or fog to knock down fire fumes if possible.</li> <li>Move containers away from the fire area if this can be done without risk.</li> <li>In confined space use self-contained breathing apparatus.</li> <li>Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.</li> <li>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.</li> <li>Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.</li> </ul>

SECTION 6: Accidental release measur	es
6.1. Personal precautions, protective equip	ment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Act in accordance with local emergency plan. Try to stop release. Evacuate area. 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	: Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Oxygen detectors should be used when asphyxiating gases may be released. See section 5.3 of the SDS for more information.
6.2. Environmental precautions	

Try to stop release.

### Safety Data Sheet

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

6.3. Methods and material for containment and cleaning up

Methods and material for containment and cleaning : Ventilate area. up

6.4. Reference to other sections

See also sections 8 and 13.

7.1. Precautions for safe handling		
Safe use of the product	<ul> <li>The product must be handled in accordance with good industrial hygiene and safety procedures.</li> <li>Only experienced and properly instructed persons should handle gases under pressure. Consider pressure relief device(s) in gas installations.</li> <li>Ensure the complete gas system was (or is regularily) checked for leaks before use.</li> <li>Do not smoke while handling product.</li> <li>Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt.</li> <li>Avoid suck back of water, acid and alkalis.</li> <li>Do not breathe gas.</li> </ul>	
Safe handling of the gas receptacle	<ul> <li>Avoid release of product into work area.</li> <li>Refer to supplier's container handling instructions.</li> <li>Do not allow backfeed into the container.</li> <li>Protect containers from physical damage; do not drag, roll, slide or drop.</li> <li>When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders.</li> <li>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.</li> <li>If user experiences any difficulty operating valve discontinue use and contact supplier.</li> <li>Never attempt to repair or modify container valves or safety relief devices.</li> <li>Damaged valves should be reported immediately to the supplier.</li> <li>Keep container valve outlets clean and free from contaminants particularly oil and water.</li> <li>Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.</li> <li>Close container valve after each use and when empty, even if still connected to equipment.</li> <li>Never attempt to transfer gases from one cylinder/container to another.</li> <li>Never use direct flame or electrical heating devices to raise the pressure of a container.</li> <li>Do not remove or deface labels provided by the supplier for the identification of the content of the container.</li> <li>Suck back of water into the container must be prevented.</li> <li>Open valve slowly to avoid pressure shock.</li> </ul>	
7.2. Conditions for safe storage, inclu	ding any incompatibilities	
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.

### Safety Data Sheet

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

#### **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	
	5000 ppm	
Regulatory reference	bry reference COMMISSION DIRECTIVE 2006/15/EC	
Austria - Occupational Exposure Limits		
Local name	Kohlenstoffdioxid	
MAK (OEL TWA)	9000 mg/m³	
	5000 ppm	
MAK (OEL STEL)	18000 mg/m³ (3x 60(Mow) min)	
	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 2 %; He 20 %;Ar 78 %	
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:

Provide adequate general and local exhaust ventilation. Oxygen detectors should be used when asphyxiating gases may be released. 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):

### Safety Data Sheet

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



#### Eye and face protection

#### Eye 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.

#### **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.

#### **Thermal hazards**

#### Thermal hazard protection:

None in addition to the above sections.

#### **Environmental exposure controls**

#### Environmental exposure controls:

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.
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: Helium -269 °C
Flammability	: Non flammable.
Oxidising properties	: No oxidising properties.
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.
Viscosity, dynamic	: Not applicable for gases and gas mixtures.
Solubility in water	: Mixture is partially soluble 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.

## Safety Data Sheet

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

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 classes

No additional information available

#### 9.2.2. Other safety characteristics

Gas group Additional information : Compressed gas

: 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. None.

**10.2. Chemical stability** 

Stable under normal conditions.

**10.3. Possibility of hazardous reactions** 

No additional information available

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	: Toxicological effects not expected by inhalation from this product if occupational exposure limit values are not exceeded.	
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.	
Carbon dioxide (124-38-9)		
рН	Not applicable for gases and gas mixtures.	
Argon (7440-37-1)		
рН	Not applicable for gases and gas mixtures.	

## Safety Data Sheet

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

Helium (7440-59-7)	
рН	Not applicable for gases and gas mixtures.
Serious eye damage/irritation	: No known effects from this product.
	pH: Not applicable for gases and gas mixtures.
Carbon dioxide (124-38-9)	
рН	Not applicable for gases and gas mixtures.
Argon (7440-37-1)	
рН	Not applicable for gases and gas mixtures.
Helium (7440-59-7)	
рН	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.
STOT-single exposure	<ul><li>No known effects from this product.</li><li>No known effects from this product.</li></ul>
STOT-repeated exposure Aspiration hazard	: Not applicable for gases and gas mixtures.
CO2 2 %; He 20 %;Ar 78 %	· · · · · · · · · · · · · · · · · · ·
Viscosity, kinematic	Not applicable for gases and gas mixtures.
Carbon dioxide (124-38-9)	
Viscosity, kinematic	Not applicable for gases and gas mixtures.
Argon (7440-37-1)	
Viscosity, kinematic	No reliable data available.
Helium (7440-59-7)	
Viscosity, kinematic	No reliable data available.
11.2. Information on other hazards	
11.2.1. Endocrine disrupting properties	
Adverse health effects caused by endocrine	The substance/mixture has no endocrine disrupting properties

Adverse health effects caused by endocrine : 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 Hazardous to the aquatic environment, short–term (acute) Hazardous to the aquatic environment, long–term (chronic) Not rapidly degradable	<ul> <li>No ecological damage caused by this product.</li> <li>Not classified</li> <li>Not classified</li> </ul>
CO2 2 %; He 20 %;Ar 78 %	
LC50 96 h - Fish [mg/l]	No data available.

# Safety Data Sheet

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

CO2 2 %; He 20 %;Ar 78 %		
002 2 /0, THE 20 /0, AT 70 /0		
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.	
Argon (7440-37-1)		
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.	
Helium (7440-59-7)		
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 2 %; He 20 %;Ar 78 %		
Assessment	No ecological damage caused by this product.	
Carbon dioxide (124-38-9)		
Assessment	No ecological damage caused by this product.	
Argon (7440-37-1)		
Assessment	No ecological damage caused by this product.	
Helium (7440-59-7)		
Assessment	No ecological damage caused by this product.	

## 12.3. Bioaccumulative potential

CO2 2 %; He 20 %;Ar 78 %	
Partition coefficient n-octanol/water (Log Pow)	Not applicable for gas mixtures.
Assessment	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.
Argon (7440-37-1)	
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.

## Safety Data Sheet

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

according to the REACH Regulation (EC) 1907/2006 amended	b by Regulation (EO) 2020/070
Helium (7440-59-7)	
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 2 %; He 20 %;Ar 78 %	
Assessment	No ecological damage caused by this product.
Carbon dioxide (124-38-9)	
Ecology - soil	No ecological damage caused by this product.
Argon (7440-37-1)	
Ecology - soil	No ecological damage caused by this product.
Helium (7440-59-7)	
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 Adverse effects on the environment caused by	: The substance/mixture has no endocrine disrupting properties. : 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	: Contains greenhouse gas(es).
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: 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

## Safety Data Sheet

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

ADR	IMDG	ΙΑΤΑ	ADN	RID
I4.1. UN number or ID number				
UN 1956	UN 1956	UN 1956	UN 1956	UN 1956
14.2. UN proper shippin	g name	· · · · · ·		
COMPRESSED GAS, N.O.S. (Argon, Helium)	COMPRESSED GAS, N.O.S. (Argon, Helium)	Compressed gas, n.o.s. (Argon, Helium)	COMPRESSED GAS, N.O.S. (Argon, Helium)	COMPRESSED GAS, N.O.S. (Argon, Helium)
Transport document descr	iption			
UN 1956 COMPRESSED GAS, N.O.S. (Argon, Helium), 2.2, (E)	UN 1956 COMPRESSED GAS, N.O.S. (Argon, Helium), 2.2	UN 1956 Compressed gas, n.o.s. (Argon, Helium), 2.2	UN 1956 COMPRESSED GAS, N.O.S. (Argon, Helium), 2.2	UN 1956 COMPRESSED GAS, N.O.S. (Argon, Helium), 2.2
14.3. Transport hazard o	class(es)			
2.2	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 hazards				
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
No supplementary information	n available	1		
14.6. Special precaution	- fer uppr			

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**

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Classification code (ADR)
Special provisions (ADR)
Limited quantities (ADR)
Excepted quantities (ADR)
Packing instructions (ADR)
Vehicle for tank carriage
Transport category (ADR)
Hazard identification number (Kemler No.)
Orange plates

Tunnel restriction code (ADR)

#### Transport by sea

Special provisions (IMDG)
Limited quantities (IMDG)
Excepted quantities (IMDG)

: 1A 274, 378, 392, 655, 662 120ml : E1 : P200 AT

3 20	
	20
	1956
E	

: 274, 378, 392

- : 120 ml
- : E1

: :

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### Safety Data Sheet

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

Packing instructions (IMDG)	: P200
EmS-No. (Fire)	: F-C
EmS-No. (Spillage)	: S-V
Stowage category (IMDG)	: A
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
ERG code (IATA)	: 2L
Inland waterway transport	
Classification code (ADN)	: 1A
Special provisions (ADN)	: 274, 378, 392, 655, 662
Limited quantities (ADN)	: 120 ml
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: 1A
Special provisions (RID)	: 274, 378, 392, 655, 662
Limited quantities (RID)	: 120ml
Excepted quantities (RID)	: E1
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 handling (RID)	: CW9, CW10, CW36
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.

### 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)

### Safety Data Sheet

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

#### 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)

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#### 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.

#### **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	
EC	European Inventory of Existing Commercial Chemical Substances	
ED	Endocrine disruptor	
EN	European Standard	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	

## Safety Data Sheet

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

Abbreviations a	nd acronyms:	
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	
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

Other information

: 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..

: 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:		
Press. Gas (Comp.)	Gases under pressure : Compressed gas	
Press. Gas (Liq.)	Gases under pressure : Liquefied gas	
H280	Contains gas under pressure; may explode if heated.	

The classification complies with

: ATP 12

## Safety Data Sheet

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

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.

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