

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

Version: 1.0 Revision date: 13/12/2022 Issue date: 13/12/2022

MSDS.000206

Alipak 170

SECTION 1: Identification of the sub	stance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Trade name	: Alipak 170
SDS code	: MSDS.000206
	tance or mixture and uses advised against
Relevant identified uses	: Industrial and professional uses. Perform risk assessment prior to use.
	Food applications.
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 d	lata sheet
Sapio Produzione Idrogeno Ossigeno Srl	
Via S. Pellico, 48	
20900 Monza	
T +39 039 836068	
www.sapio.it	
E-mail address of competent person responsible f	or the SDS : sds@sapio.it
1.4. Emergency telephone number	
Emergency telephone number	: +39 0295705444 (24/7)
SECTION 2: Hazards identification	
2.1. Classification of the substance or mi	ixture
Classification according to Regulation (EC) No	
Physical hazards Gases under pres	
	ssure: Liquefied gas H280
2.2. Label elements	
2.2. Label elements Labelling according to Regulation (EC) No. 127	
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2.2. Label elements Labelling according to Regulation (EC) No. 127 Hazard pictograms (CLP)	
2.2. Label elements Labelling according to Regulation (EC) No. 127 Hazard pictograms (CLP) Signal word (CLP)	72/2008 [CLP]
2.2. Label elements Labelling according to Regulation (EC) No. 127 Hazard pictograms (CLP)	72/2008 [CLP] GHS04 : Warning
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2.2. Label elements Labelling according to Regulation (EC) No. 127 Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP) - Storage	 72/2008 [CLP] <i>G</i>HS04 Warning H280 - Contains gas under pressure; may explode if heated. P403 - Store in a well-ventilated place.
2.2. Label elements Labelling according to Regulation (EC) No. 127 Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP) - Storage	 72/2008 [CLP] <i>i i i i i i i i i i</i>
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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]
Carbon dioxide	CAS-No.: 124-38-9 EC-No.: 204-696-9 EC Index-No.: REACH-no: *1	70	Press. Gas (Liq.), H280
Nitrogen	CAS-No.: 7727-37-9 EC-No.: 231-783-9 EC Index-No.: REACH-no: *1	30	Press. Gas (Comp.), H280

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

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

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

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

SECTION 4: First aid measures	
4.1. Description of first aid measures	
Inhalation	 Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped.
Skin contact	: In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance.
Eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes.
Ingestion	: Ingestion is not considered a potential route of exposure.
4.2. 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 attentio	n and special treatment needed
	None.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray or fog. 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 o	r mixture
Specific hazards	: Exposure to fire may cause containers to rupture/explode.
Hazardous combustion products	: None.
5.3. Advice for firefighters	
Specific methods	 Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may cause gas receptacles to rupture. Cool endangered receptacles with water spray jet from a protected position. Prevent water used in emergency cases from entering sewers and drainage systems. If possible, stop flow of product. Use water spray or fog to knock down fire fumes if possible. Move containers away from the fire area if this can be done without risk.



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Special protective equipment for fire fighters : In confined space use self-contained breathing apparatus. Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fig Standard EN 469 - Protective clothing for firefighters. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full SECTION 6: Accidental release measures Environmental precautions, protective equipment and emergency procedures For non-emergency personnel : Act in accordance with local emergency plan. 	for face mask. n can be
6.1. Personal precautions, protective equipment and emergency procedures For non-emergency personnel : 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 dangerous. Stay upwind. See section 8 of the SDS for more information on personal protective equipment For emergency responders : Wear self-contained breathing apparatus when entering area unless atmosphere is proved to 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.	
For non-emergency personnel : 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 dangerous. Stay upwind. See section 8 of the SDS for more information on personal protective equipment For emergency responders : Wear self-contained breathing apparatus when entering area unless atmosphere is proved to 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.	
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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.	o be safe.
Try to stop release.	
6.3. 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 starses	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Safe use of the product : The product must be handled in accordance with good industrial hygiene and safety procedu 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 temperature. Contact your gas supplier if in doubt. Avoid suck back of water, acid and alkalis. Do not breathe gas. Avoid release of product into work area.	
 Safe handling of the gas receptacle 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.) design transport cylinders. Leave valve protection caps in place until the container has been secured against either a w 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 disconnected from equipment. Close container valve after each use and when empty, even if still connected to equipment. 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 container. Suck back of water into the container must be prevented. Open valve slowly to avoid pressure shock. 	vall or bench · is



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7.2. Conditions for safe storage, including any incompatibilities

Observe all regulations and local requirements regarding storage of containers.

Containers should not be stored in conditions likely to encourage corrosion.

Container valve guards or caps should be in place.

Containers should be stored in the vertical position and properly secured to prevent them from falling over.

Stored containers should be periodically checked for general condition and leakage.

Keep container below 50°C in a well ventilated place.

Store containers in location free from fire risk and away from sources of heat and ignition. Keep away from combustible materials.

7.3. Specific end use(s)

None.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Carbon dioxide (124-38-9)			
EU - Indicative Occupational Exposure Limit (IOEI	-)		
Local name		Carbon dioxide	
IOEL TWA		9000 mg/m³	
IOEL TWA [ppm]		5000 ppm	
Regulatory reference		COMMISSION DIRECTIVE 2006/15/EC	
DNEL (Derived-No Effect Level)	: None availab	ble.	
PNEC (Predicted No-Effect Concentration)	: None availat	: None available.	
8.2. Exposure controls			
8.2.1. Appropriate engineering controls			
	Oxygen dete Systems und Ensure expo	quate general and local exhaust ventilation. ctors should be used when asphyxiating gases may be released. ler pressure should be regularily checked for leakages. sure is below occupational exposure limits (where available).	
8.2.2. Individual protection measures, e.g. persona	I protective equipme	nt	
Eye/face protection	the use of the recommendation of the precommendation of the precomplication of the precomplex of the	sment should be conducted and documented in each work area to assess the risks related to e product and to select the PPE that matches the relevant risk. The following tions should be considered: int to the recommended EN/ISO standards should be selected. s when transfilling or breaking transfer connections.	
	Standard EN	166 - Personal eye-protection - specifications.	
Skin protection Hand protection	Standard EN Wear workin	 Wear cold insulating gloves when transfilling or breaking transfer connections. Standard EN 511 - Cold insulating gloves. Wear working gloves when handling gas containers. Standard EN 388 - Protective gloves against mechanical risk, performance level 1 or higher. 	
Other		: Wear safety shoes while handling containers.	
Respiratory protection	: When indica the Respirate hazards of th Self containe during maint	 Standard EN ISO 20345 - Personal protective equipment - Safety footwear. 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. 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. 	
Thermal hazards		tion to the above sections.	
8.2.3. Environmental exposure controls			
	None necess	;ary.	



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SECTION 9: Physical and chemical prope	erties
9.1. Information on basic physical and chemic	al properties
Appearance	
- Physical state at 20°C / 101.3kPa	: Gas.
- Colour	: Colourless.
Odour	: Odourless.
	Odour threshold is subjective and inadequate to warn of overexposure.
Melting point / Freezing point	: Not applicable for gases and gas mixtures.
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.
Lower explosive limit (LEL)	: Not available.
Upper explosive limit (UEL)	: Not available.
Flash point	: Not applicable for gases and gas mixtures.
Auto-ignition temperature	: Non flammable.
Decomposition temperature	: Not applicable.
pH	: Not applicable for gases and gas mixtures.
Viscosity, kinematic	: Not applicable for gases and gas mixtures.
Water solubility [20°C]	: Mixture is partially soluble in water
Partition coefficient n-octanol/water (Log Kow)	: Not available.
Vapour pressure [20°C]	: Not known.
	Component with lowest volatility : Carbon dioxide 57.3 bar(a)
	Component with highest volatility: Not applicable - component is a compressed gas
Vapour pressure [50°C]	: Not available.
Density and/or relative density	: Not applicable.
Relative vapour density (air=1)	: Heavier than air.
Particle characteristics	: Not applicable for gases and gas mixtures.
9.2. Other information	
9.2.1. Information with regard to physical hazard clas	ses
Explosion limits	: Non flammable.
Oxidising properties	: No oxidising properties.
9.2.2. Other safety characteristics	
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Other data	: 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 mixture are not available.
10.2. Chemical stability	
	Stable under normal conditions.
10.3. Possibility of hazardous reactions	
	None.
Reactivity	: None.
10.4. Conditions to avoid	
	Avoid moisture in installation systems.
10.5. Incompatible materials	
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.



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SECTION 11: Toxicological information	
11.1. Information on hazard classes as defined	in Regulation (EC) No 1272/2008
Acute toxicity	: Toxicological effects not expected from this product if occupational exposure limit values are not exceeded.
Skin corrosion/irritation	: No known effects from this product.
Serious eye damage/irritation	: No known effects from this product.
Respiratory or skin sensitisation	: No known effects from this product.
Germ cell mutagenicity	: No known effects from this product.
Carcinogenicity	: No known effects from this product.
Toxic for reproduction : Fertility	: No known effects from this product.
Toxic for reproduction : unborn child	: No known effects from this product.
STOT-single exposure	: No known effects from this product.
STOT-repeated exposure	: No known effects from this product.
Aspiration hazard	: Not applicable for gases and gas mixtures.
11.2. Information on other hazards	
Other information	 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. The substance/mixture has no endocrine disrupting properties.
SECTION 12: Ecological information	
12.1. Toxicity	
Assessment	: No ecological damage caused by this product.
EC50 48h - Daphnia magna [mg/l] EC50 72h - Algae [mg/l] LC50 96 h - Fish [mg/l]	 No data available. No data available. No data available.
12.2. Persistence and degradability	
Assessment	: No ecological damage caused by this product.
12.3. Bioaccumulative potential	
Assessment	: No ecological damage caused by this product.
<u>12.4. Mobility in soil</u>	
Assessment	: No ecological damage caused by this product.
12.5. Results of PBT and vPvB assessment	
Assessment	: Not classified as PBT or vPvB.
12.6. Endocrine disrupting properties	The substance/mixture has no endocrine disrupting properties.
12.7. Other adverse effects	
Other adverse effects Effect on the ozone layer Effect on global warming	 No known effects from this product. No effect on the ozone layer. Contains greenhouse gas(es)

- : No effect on the ozone layer.
 - : Contains greenhouse gas(es).

Effect on global warming



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Alipak 170 **SECTION 13: Disposal considerations** 13.1. 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 : 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04. 2000/532/EC as amended) 13.2. Additional information External treatment and disposal of waste should comply with applicable local and/or national regulations. **SECTION 14: Transport information** 14.1. UN number or ID number In accordance with ADR / RID / IMDG / IATA / ADN UN-No. : 3163 14.2. UN proper shipping name : LIQUEFIED GAS, N.O.S. (Carbon dioxide, Nitrogen) Transport by road/rail (ADR/RID) : Liquefied gas, n.o.s. (Carbon dioxide, Nitrogen) Transport by air (ICAO-TI / IATA-DGR) : LIQUEFIED GAS, N.O.S. (Carbon dioxide, Nitrogen) Transport by sea (IMDG) 14.3. Transport hazard class(es) Labelling 2.2 : Non-flammable, non-toxic gases. Transport by road/rail (ADR/RID) Class : 2 Classification code 2A Hazard identification number 20 Tunnel Restriction C/E - Tank carriage : Passage forbidden through tunnels of category C, D and E. Other carriage : Passage forbidden through tunnels of category E Transport by air (ICAO-TI / IATA-DGR) : 2.2 Class / Div. (Sub. risk(s)) Transport by sea (IMDG) Class / Div. (Sub. risk(s)) : 2.2 Emergency Schedule (EmS) - Fire : F-C Emergency Schedule (EmS) - Spillage : S-V 14.4. Packing group Transport by road/rail (ADR/RID) : Not applicable Transport by air (ICAO-TI / IATA-DGR) : Not applicable Transport by sea (IMDG) : Not applicable 14.5. Environmental hazards Transport by road/rail (ADR/RID) : None. Transport by air (ICAO-TI / IATA-DGR) : None. Transport by sea (IMDG) : None. 14.6. Special precautions for user Packing Instruction(s) Transport by road/rail (ADR/RID) : P200 Transport by air (ICAO-TI / IATA-DGR) Passenger and Cargo Aircraft : 200. Cargo Aircraft only 200.

Sapio Produzione Idrogeno Ossigeno Srl

Transport by sea (IMDG)

P200



Special transport precautions

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: Avoid transport on vehicles where the load space is not separated from the driver's compartment.

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.
14.7. Maritime transport in bulk according to IM	
	Not applicable.
SECTION 15: Regulatory information	
	ons/legislation specific for the substance or mixture
EU-Regulations	
Restrictions on use Other information, restriction and prohibition regulations	 Contains no substance(s) listed on the REACH Candidate List. Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals).
Seveso Directive : 2012/18/EU (Seveso III)	: Not covered.
National regulations	
Regulatory reference	: Ensure all national/local regulations are observed.
15.2. Chemical safety assessment	
	A CSA does not need to be carried out for this product.
SECTION 16: Other information	: Not applicable.
Abbreviations and acronyms	 ATE - Acute Toxicity Estimate CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 EINECS - European Inventory of Existing Commercial Chemical Substances CAS# - Chemical Abstract Service number PPE - Personal Protection Equipment LC50 - Lethal Concentration to 50 % of a test population RMM - Risk Management Measures PBT - Persistent, Bioaccumulative and Toxic vPvB - Very Persistent and Very Bioaccumulative STOT - SE : Specific Target Organ Toxicity - Single Exposure CSA - Chemical Safety Assessment EN - European Agreement concerning the International Carriage of Dangerous Goods by Road IATA - International Maritime Dangerous Goods RID - Regulations concerning the International Carriage of Dangerous Goods by Roail WGK - Water Hazard Class STOT - RE : Specific Target Organ Toxicity - Repeated Exposure UFI : Unique Formula Identifier
Training advice	 UFI: Unique Formula identifier The hazard of asphyxiation is often overlooked and must be stressed during operator training. For more guidance, refer to EIGA SL 01 "Dangers of Asphyxiation", downloadable at http://www.eiga.eu
Further information	 Classification 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).



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Contains gas under pressure; may explode if heated.
Gases under pressure : Compressed gas
Gases under pressure: Liquefied gas

DISCLAIMER OF LIABILITY

Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out.

Details given in this document are believed to be correct at the time of going to press.

Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

End of document