

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.000212

Alipak 123

1.1. Product identifier					
Product form		Mixture			
Trade name	:	Alipak 123			
SDS code	:	MSDS.000212			
1.2. Relevant identifie	d uses of the substance or m	ixture and uses adv	ised against		
Relevant identified uses	:		onal uses. Perform risk a	assessment prior to use.	
		Food applications.	onal uso for chomical an	alusis calibration (routin	e) quality control, laboratory use
		under controlled condi		alysis, calibration, (loutin	
		Perform risk assessme			
Uses advised against	:	Consumer use.			
		Uses other than those uses.	listed above are not sup	ported, contact your supp	blier for more information on oth
1.3. Details of the sup	plier of the safety data sheet	uses.			
Sapio Produzione Idrogen					
Via S. Pellico, 48	-				
20900 Monza					
T +39 039 836068					
www.sapio.it E-mail address of compete	ent person responsible for the SDS :	sds@sanio.it			
1.4. Emergency teleph		<u></u>			
Emergency telephone num		+39 0295705444 (24/7	7)		
			· ,		
SECTION 2: Hazard	Is identification				
2.1. Classification of t	he substance or mixture				
Classification according	to Regulation (EC) No. 1272/2008	[CLP]			
-	to Regulation (EC) No. 1272/2008	[CLP]		H270	
Classification according Physical hazards	Oxidising Gases, Category 1			H270	
-				H270 H280	
-	Oxidising Gases, Category 1				
Physical hazards 2.2. Label elements	Oxidising Gases, Category 1	ressed gas			
Physical hazards 2.2. Label elements	Oxidising Gases, Category 1 Gases under pressure : Comp	ressed gas	~		
Physical hazards 2.2. Label elements Labelling according to R	Oxidising Gases, Category 1 Gases under pressure : Comp	P]			
Physical hazards 2.2. Label elements Labelling according to R Hazard pictograms (CLP)	Oxidising Gases, Category 1 Gases under pressure : Comp egulation (EC) No. 1272/2008 [CLI	P] GHS03	GHS04		
Physical hazards 2.2. Label elements Labelling according to R Hazard pictograms (CLP) Signal word (CLP)	Oxidising Gases, Category 1 Gases under pressure : Comp egulation (EC) No. 1272/2008 [CLI :	P] GHS03 Danger			
Physical hazards 2.2. Label elements Labelling according to R Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP)	Oxidising Gases, Category 1 Gases under pressure : Comp egulation (EC) No. 1272/2008 [CLI :	PJ GHS03 Danger H270 - May cause or i		H280	
Physical hazards 2.2. Label elements Labelling according to R Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP) Precautionary statements	Oxidising Gases, Category 1 Gases under pressure : Comp egulation (EC) No. 1272/2008 [CLI : :	PJ GHS03 Danger H270 - May cause or i H280 - Contains gas u	ntensify fire; oxidiser. Inder pressure; may exp	H280	
Physical hazards 2.2. Label elements Labelling according to R Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP)	Oxidising Gases, Category 1 Gases under pressure : Comp egulation (EC) No. 1272/2008 [CLI : :	PJ GHS03 Danger H270 - May cause or i H280 - Contains gas u P220 - Keep away from	ntensify fire; oxidiser. Inder pressure; may exp m combustible materials.	H280 lode if heated.	
Physical hazards 2.2. Label elements Labelling according to R Hazard pictograms (CLP) Signal word (CLP) Hazard statements (CLP) Precautionary statements - Prevention	Oxidising Gases, Category 1 Gases under pressure : Comp egulation (EC) No. 1272/2008 [CLI : : : :	P GHS03 Danger H270 - May cause or i H280 - Contains gas u P220 - Keep away from P244 - Keep valves ar	ntensify fire; oxidiser. Inder pressure; may exp m combustible materials. nd fittings free from oil ar	H280 lode if heated.	
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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.000212

Alipak 123

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	CAS-No.: 7782-44-7 EC-No.: 231-956-9 EC Index-No.: 008-001-00-8 REACH-no: *1	66	Ox. Gas 1, H270 Press. Gas (Comp.), H280
Carbon dioxide	CAS-No.: 124-38-9 EC-No.: 204-696-9 EC Index-No.: REACH-no: *1	25	Press. Gas (Liq.), H280
Nitrogen	CAS-No.: 7727-37-9 EC-No.: 231-783-9 EC Index-No.: REACH-no: *1	9	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	: Adverse effects not expected from this product.
Eye contact	: Adverse effects not expected from this product.
Ingestion	: Ingestion is not considered a potential route of exposure.
4.2. Most important symptoms and	d effects, both acute and delayed

See section 11.

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

None.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray or fog. 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 of	or mixture
Specific hazards	: Supports combustion. 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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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.000212

Alipak 123

Special protective equipment for fire fighters

Standard protective clothing and equipment (Self Contained Breathing Apparatus) for fire fighters.
 Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters.
 Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.

Use only properly specified equipment which is suitable for this product, its supply pressure and

SECTION 6: Accidental release measures

For non-emergency personnel	: 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.
F	See section 8 of the SDS for more information on personal protective equipment
For emergency responders	: 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 containme	ent 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.
	bo not smoke while handling product.

temperature. Contact your gas supplier if in doubt.

Avoid suck back of water, acid and alkalis.

Avoid release of product into work area.

Do not breathe gas.

Use only oxygen approved lubricants and oxygen approved sealings.

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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.000212

	Alipak 123
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 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 including	
	Segregate from flammable gases and other flammable materials in store. 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 (IOEL)	
Local name	Carbon dioxide
IOEL TWA	9000 mg/m ³
IOEL TWA [ppm]	5000 ppm
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
DNEL (Derived-No Effect Level) : None availa	ble.
PNEC (Predicted No-Effect Concentration) : None availa	ble.
8.2. Exposure controls	
8.2.1. Appropriate engineering controls	
Gas detecto Consider the Systems un	equate general and local exhaust ventilation. ors should be used when oxidising gases may be released. e use of a work permit system e.g. for maintenance activities. der pressure should be regularily checked for leakages. osure is below occupational exposure limits (where available).
8.2.2. Individual protection measures, e.g. personal protective equipme	ent
the use of th recommend	essment should be conducted and documented in each work area to assess the risks related to the product and to select the PPE that matches the relevant risk. The following lations should be considered: ant to the recommended EN/ISO standards should be selected.



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.000212

Alipak 123	
Eye/face protection	: Wear safety glasses with side shields.
	Standard EN 166 - Personal eye-protection - specifications.
Skin protection	
Hand protection	: Wear working gloves when handling gas containers.
	Standard EN 388 - Protective gloves against mechanical risk, performance level 1 or higher.
Other	: Wear safety shoes while handling containers.
	Standard EN ISO 20345 - Personal protective equipment - Safety footwear.
Respiratory protection	: 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	: None in addition to the above sections.
8.2.3. 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 chemical 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.
рН	: 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 applicable.
Vapour pressure [50°C]	: Not applicable.
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 physica	hazard classes
Explosion limits	: Non flammable.
Oxidising properties	: Oxidiser.
Oxidising power (OP)	: Oxidising power, based on ISO10156 calculation : 58.67 %
9.2.2. Other safety characteristics	

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 bazardous reactions

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.000212

Alipak 123

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

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 Toxicological effects not expected from this product if occupational exposure limit values are not Acute toxicity exceeded. : No known effects from this product. Skin corrosion/irritation : No known effects from this product. Serious eye damage/irritation Respiratory or skin sensitisation No known effects from this product. : 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 : Not applicable for gases and gas mixtures. Aspiration hazard 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 methemoglobin 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		
<u>12.1. Toxicity</u>		
Assessment	: No ecological damage caused by this product.	
EC50 48h - Daphnia magna [mg/l]	: No data available.	
EC50 72h - Algae [mg/l]	: No data available.	
LC50 96 h - Fish [mg/l]	: No data available.	



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.000212

Alipak 123

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12.3. Bioaccumulative potential	
Assessment	: No ecological damage caused by this product.
12.4. Mobility in soil	
Assessment	: No ecological damage caused by this product.
12.5. Results of PBT and vPvB assessment	
Assessment	: Not classified as PBT or vPvB.
12.6. Endocrine disrupting properties	
	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	: No effect on the ozone layer.
Effect on global warming	: Contains greenhouse gas(es).
SECTION 13: Disposal considerations <u>13.1. Waste treatment methods</u>	
	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	: 16 05 04 *: Gases in pressure containers (including halons) containing hazardous substances.
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	

MSDS 000313
age forbidden through tunnels of category E
dizing substances.
n-flammable, non-toxic gases.
5.1
ESSED GAS, OXIDIZING, N.O.S. (oxygen, Carbon dioxide)
essed gas, oxidizing, n.o.s. (oxygen, Carbon dioxide)
ESSED GAS, OXIDIZING, N.O.S. (oxygen, Carbon dioxide)

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



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.000212

Alipak 123

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.
Transport by sea (IMDG)	: P200
Special transport precautions	: Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.
	Before transporting product containers:
	- Ensure there is adequate ventilation.
	- Ensure that containers are firmly secured.
	- Ensure valve is closed and not leaking.
	- Ensure valve outlet cap nut or plug (where provided) is correctly fitted.
	- Ensure valve protection device (where provided) is correctly fitted.

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

SECTION 15: Regulatory information <u>15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture</u>		
Restrictions on use	: Contains no substance(s) listed on the REACH Candidate List.	
Other information, restriction and prohibition regulations	: 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)	: 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

Indication of changes

: Not applicable.



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.000212

Alipak 123	
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 Standard
	UN - United Nations
	ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road IATA - International Air Transport Association
	IMDG code - International Maritime Dangerous Goods
	RID - Regulations concerning the International Carriage of Dangerous Goods by Rail
	WGK - Water Hazard Class
	STOT - RE : Specific Target Organ Toxicity - Repeated Exposure
	UFI : Unique Formula Identifier
Training advice	Ensure operators understand the hazard of oxygen enrichment.
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).

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

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.

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