

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.000203

Alipak 333D

SECTION 1: Identifica	
1.1. Product identifier	
Product form Trade name	: Mixture
SDS code	: Alipak 333D : MSDS.000203
Relevant identified uses	Ises of the substance or mixture and uses advised against : Industrial and professional uses. Perform risk assessment prior to use.
Velevant identified uses	Food applications.
Uses advised against	: Consumer use.
	Uses other than those listed above are not supported, contact your supplier for more information on oth uses.
1.3. Details of the suppli	er of the safety data sheet
Sapio Produzione Idrogeno O	issigeno Srl
Via S. Pellico, 48	
20900 Monza T +39 039 836068	
www.sapio.it	
	person responsible for the SDS : <u>sds@sapio.it</u>
1.4. Emergency telephor	ne number
Emergency telephone number SECTION 2: Hazards i 2.1. Classification of the	r : +39 0295705444 (24/7) identification substance or mixture
Emergency telephone number SECTION 2: Hazards i 2.1. Classification of the Classification according to I	r : +39 0295705444 (24/7)
Emergency telephone number SECTION 2: Hazards i 2.1. Classification of the Classification according to I Physical hazards	r : +39 0295705444 (24/7) identification substance or mixture Regulation (EC) No. 1272/2008 [CLP]
Emergency telephone number SECTION 2: Hazards i 2.1. Classification of the Classification according to I Physical hazards 2.2. Label elements	r : +39 0295705444 (24/7) identification substance or mixture Regulation (EC) No. 1272/2008 [CLP] Gases under pressure : Compressed gas H280
Physical hazards 2.2. Label elements Labelling according to Regu	r : +39 0295705444 (24/7) identification substance or mixture Regulation (EC) No. 1272/2008 [CLP]
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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]
Nitrogen	CAS-No.: 7727-37-9 EC-No.: 231-783-9 EC Index-No.: REACH-no: *1	50	Press. Gas (Comp.), H280
Carbon dioxide	CAS-No.: 124-38-9 EC-No.: 204-696-9 EC Index-No.: REACH-no: *1	30	Press. Gas (Liq.), H280
oxygen	CAS-No.: 7782-44-7 EC-No.: 231-956-9 EC Index-No.: 008-001-00-8 REACH-no: *1	20	Ox. Gas 1, H270 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	:	Adverse effects not expected from this product.
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 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 su	bstance 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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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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures		
For non-emergency personnel	: Act in accordance with local emergency plan.	
	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	
For emergency responders	: See section 5.3 of the SDS for more information.	
6.2. Environmental precautions		
	None.	

6.3. Methods and material for containment and cleaning up

None.

6.4. Reference to other sections

SECTION 7: Handling and storage

See also sections 8 and 13.

Safe use of the product	 The product must be handled in accordance with good industrial hygiene and safety procedures. Only experienced and properly instructed persons should handle gases under pressure. Consider pressure relief device(s) in gas installations. Ensure the complete gas system was (or is regularily) checked for leaks before use. Do not smoke while handling product. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Use only oxygen approved lubricants and oxygen approved sealings. Avoid suck back of water, acid and alkalis. Do not breathe gas. Avoid release of product into work area. 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 benc
Safe handling of the gas receptacle	 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. 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.
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	When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders.
	transport cylinders.
	Leave valve protection caps in place until the container has been secured against either a wail of benc
	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.



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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 (IOEL)		
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 available	ð.
PNEC (Predicted No-Effect Concentration)	: None available	λ.
8.2. Exposure controls		
8.2.1. Appropriate engineering controls		
	Systems under Ensure exposu	ate general and local exhaust ventilation. r pressure should be regularily checked for leakages. rre is below occupational exposure limits (where available). se of a work permit system e.g. for maintenance activities.
8.2.2. Individual protection measures, e.g. personal prot	ective equipment	
	the use of the recommendation	nent should be conducted and documented in each work area to assess the risks related to product and to select the PPE that matches the relevant risk. The following ons should be considered: to the recommended EN/ISO standards should be selected.
Eye/face protection	: Wear safety gl	asses with side shields.
Skin protection	Standard EN 1	66 - Personal eye-protection - specifications.
Hand protection	-	gloves when handling gas containers. 88 - Protective gloves against mechanical risk, performance level 1 or higher.
Other		noes while handling containers. SO 20345 - Personal protective equipment - Safety footwear.
Respiratory protection	: When indicated the Respiratory hazards of the Self contained during mainten	d by a risk assessment, Respiratory Protective Equipment must be used. The selection of y Protective Device (RPD) must be based on known or anticipated exposure levels, the product and the safe working limits of the selected RPD. breathing apparatus is recommended, where unknown exposure may be expected, e.g. iance activities on installation systems. 37 - Self-contained open-circuit compressed air breathing apparatus with full face mask.
Thermal hazards		on to the above sections.
8.2.3. Environmental exposure controls		

None necessary.

SECTION 9: Physical and chemical properties 9.1. Information on basic physical and chemical properties

Appearance - Physical state at 20°C / 101.3kPa

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: Gas.



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- 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 physical hazard class	SSES
Explosion limits	: Non flammable.
Oxidising properties	: No oxidising properties.
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 hazardous reactions	
	None.
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	
	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	

j		
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity	: Toxicological effects not expected from this product exceeded.	if occupational exposure limit values are not
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.	
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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]	: No data available. : No data available.
LC50 96 h - Fish [mg/l]	: 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.
12.4. Mobility in soil	
Assessment	: No ecological damage caused by this product.
	. 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 advarage official	
12.7. Other adverse effects	
Other adverse effects Effect on the ozone layer	: No known effects from this product.
Effect on global warming	 No effect on the ozone layer. Contains greenhouse gas(es).
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.
List of hazardous wasta codes (from Commission Desision	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.
	באנוחומו ווכמוחודות מוש שופטטמו טו שמאני אוטעוש טטווויזע שונון מאוונימטוב וטכמו מושיטו חמווטוומו ופעטומווטווג.



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SECTION 14: Transport information	
14.1. UN number or ID number	
In accordance with ADR / RID / IMDG / IATA / ADN	
UN-No.	: 1956
14.2. UN proper shipping name	
Transport by road/rail (ADR/RID)	: COMPRESSED GAS, N.O.S. (Nitrogen, Carbon dioxide)
Transport by air (ICAO-TI / IATA-DGR)	: Compressed gas, n.o.s. (Nitrogen, Carbon dioxide)
Transport by sea (IMDG)	: COMPRESSED GAS, N.O.S. (Nitrogen, Carbon dioxide)
14.3. Transport hazard class(es)	
Labelling	
	2
	2.2 : Non-flammable, non-toxic gases.
Transport by road/rail (ADR/RID)	2.2. Non hallilladic, livi-tono yases.
Class	: 2
Classification code	: 1A
Hazard identification number	: 20
Tunnel Restriction	: E - Passage forbidden through tunnels of category E
Transport by air (ICAO-TI / IATA-DGR)	
Class / Div. (Sub. risk(s))	: 2.2
Transport by sea (IMDG)	
Class / Div. (Sub. risk(s))	: 2.2
Emergency Schedule (EmS) - Fire Emergency Schedule (EmS) - Spillage	: F-C : 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(c)	
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 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.

Not applicable.



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15.1 Safety health and environmental regulation	ns/legislation specific for the substance or mixture
EU-Regulations	
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)	: 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	
ndication of changes	: 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 Air Transport Association IMDG code - International Maritime Dangerous Goods RID - Regulations concerning the International Carriage of Dangerous Goods by Roal WGK - Water Hazard Class STOT - RE : Specific Target Organ Toxicity - Repeated Exposure UFI : Unique Formula Identifier
Training advice Further information	 None. 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) 1272/200 (CLP).
Full text of H- and EUH-statements	
H270	May cause or intensify fire; oxidiser.

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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