

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

089B\_AP\_100

## Alipak 100 refrigerated liquid

	of the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Substance
Trade name	: Alipak 100 refrigerated liquid
SDS code	: 089B_AP_100
Internal reference no.	: 002103
Chemical description	: Nitrogen
CAS-No.	: 7727-37-9
EC-No.	: 231-783-9
EC Index-No.	:
Registration-No.	: Listed in Annex IV / V REACH, exempted from registration.
Chemical formula	: N2
1.2. Relevant identified uses of	he substance or mixture and uses advised against
Relevant identified uses	: Industrial and professional. Perform risk assessment prior to use.
	Food applications.
	Contact supplier for more information on uses.
Uses advised against	: Consumer use.
1.3. Details of the supplier of th	safety data sheet
Company identification	: Sapio Produzione Idrogeno Ossigeno Srl
	Via S. Pellico, 48
	20900 Monza - ITALIA
	+39 039 83981   +39 039 836068
	http://www.sapio.it/
	sds@sapio.it
1.4. Emergency telephone num	er .
Emergency telephone number	: +39 0295705444 (24/7)
Emergency telephone number SECTION 2: Hazards ider 2.1. Classification of the substa Classification according to Regulati	: +39 0295705444 (24/7) ification ice or mixture
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#### 3.1. Substances



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## Alipak 100 refrigerated liquid

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nitrogen refrigerated liquid	CAS-No.: 7727-37-9 EC-No.: 231-783-9 EC Index-No.: Registration-No.: *1	100	Press. Gas (Ref. Liq.), H281

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

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

\*2: Registration deadline not expired.

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

3.2. Mixtures		
Not applicable		
<b>SECTION 4: First aid measu</b>	res	
4.1. Description of first aid measure	25	
- Inhalation	<ul> <li>Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor. Perform cardiopulmonary resuscitation if breathing stopped.</li> </ul>	
- Skin contact	<ol> <li>In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance.</li> </ol>	
- 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. Refer to section 11.

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

None.

5.1. Extinguishing media	
- Suitable extinguishing media	: Water spray or fog.
- Unsuitable extinguishing media	: Do not use water jet to extinguish.
5.2. Special hazards arising from the sub	stance or mixture
Specific hazards	: Exposure to fire may cause containers to rupture/explode.
Hazardous combustion products	: None.
5.3. Advice for firefighters	
Specific methods	<ul> <li>Use fire control measures appropriate for the surrounding fire. Exposure to fire and heat radiation may caus 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>If leaking do not spray water onto container. Water surrounding area (from protected position) to contain fire Move containers away from the fire area if this can be done without risk.</li> </ul>
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 fighters. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask. Standard EN 469 - Protective clothing for firefighters. Standard - EN 659: Protective gloves for firefighters.

6.1. Personal precautions, protective e	quipment and emergency procedures	
	Try to stop release. Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is Use protective clothing. Ensure adequate air ventilation. Act in accordance with local emergency plan. Stay upwind. Oxygen detectors should be used when asphyxiating gases may be released.	proved to be safe.
6.2. Environmental precautions		
	Try to stop release. Liquid spillages can cause embrittlement of structural materials.	
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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 storage			
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.</li> <li>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.</li> <li>Contact your gas supplier if in doubt.</li> <li>Avoid suck back of water, acid and alkalis.</li> <li>Do not breathe gas.</li> <li>Avoid release of product into atmosphere.</li> </ul>		
Safe handling of the gas receptacle	<ul> <li>Do not allow backfeed into the container.</li> <li>Protect receptacles from physical damage; do not drag, roll, slide or drop.</li> <li>When moving receptacles, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport receptacles.</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 receptacle 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 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 receptacle contents.</li> <li>Suck back of water into the container must be prevented.</li> <li>Open valve slowly to avoid pressure shock.</li> </ul>		
	Keep away from combustible materials.		
7.3. Specific end use(s)			
	None.		
SECTION 8: Exposure controls/perso	nal protection		
8.1. Control parameters			
OEL (Occupational Exposure Limits)	None available.		
DNEL (Derived-No Effect Level)	None available.		
PNEC (Predicted No-Effect Concentration)	None available.		
8.2. Exposure controls			
8.2.1. Appropriate engineering controls			
8.2.2. Individual protection measures, e.g. pers	Provide adequate general and local exhaust ventilation. Systems under pressure should be regularily checked for leakages. Oxygen detectors should be used when asphyxiating gases may be released. Consider the use of a work permit system e.g. for maintenance activities. <b>onal protective equipment</b>		
	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.



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Eye/face protection	: Wear goggles and a face shield when transfilling or breaking transfer connections.
	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.
	Wear cold insulating gloves when transfilling or breaking transfer connections.
	Standard EN 511 - Cold insulating gloves.
- Other	: Wear safety shoes while handling containers.
	Standard EN ISO 20345 - Personal protective equipment - Safety footwear.
Respiratory protection	<ul> <li>Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen- deficient atmospheres.</li> </ul>
	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	
	None necessary

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	: Gas
Colour	: Colourless liquid.
Odour	: No odour warning properties.
Odour threshold	: Odour threshold is subjective and inadequate to warn of overexposure.
рН	: Not applicable for gases and gas mixtures.
Melting point / Freezing point	: -210 °C
Boiling point	: -196 °C
Flash point	: Not applicable for gases and gas mixtures.
Evaporation rate	: Not applicable for gases and gas mixtures.
Flammability (solid, gas)	: Non flammable.
Explosive limits	: Non flammable.
Vapour pressure [20°C]	: Not applicable.
Vapour pressure [50°C]	: Not applicable.
Vapour density	: Not applicable.
Relative density, liquid (water=1)	: 0,8
Relative density, gas (air=1)	: 0,97
Water solubility	: 20 mg/l
Partition coefficient n-octanol/water (Log Kow)	: Not applicable for inorganic gases.
Auto-ignition temperature	: Non flammable.
Decomposition temperature	: Not applicable.
Viscosity	: No reliable data available.
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.
0.0. Others in formation	

#### 9.2. Other information

Molar mass	:	28 g/mol
Critical temperature	:	-147 °C

SECTION 10: Stability and reactivity			
10.1. Reactivity			
	No reactivity hazard other th	an the effects described in sub-sections below.	
10.2. Chemical stability			
	Stable under normal condition	ons.	
10.3. Possibility of hazardous reactions			
	None.		
10.4. Conditions to avoid			
	Avoid moisture in installation	systems.	
10.5. Incompatible materials			
	For additional information or	compatibility refer to ISO 11114.	
	Materials such as carbon ste	eel, low alloy carbon steel and plastic become brittle at low te	emperatures and are
Sapio Produzione Idrogeno Ossigeno Srl	EN (English)	Internal reference no.: 002103	4/7



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subject to failure. Use appropriate materials compatible with the cryogenic conditions present in refrigerated liquefied gas systems.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity	: No known toxicological effects from this product.	
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.	

<b>SECTION 12: Ecological informatic</b>	n
12.1. Toxicity	
Assessment	: No ecological damage caused by this product.
EC50 48h - Daphnia magna	: No data available.
EC50 72h - Algae	: No data available.
LC50 96 h - Fish	: No data available.
12.2. Persistence and degradability	
Assessment	: No ecological damage caused by this product.
12.3. Bioaccumulative potential	
Assessment	: No data available.
12.4. Mobility in soil	
Assessment	: Because of its high volatility, the product is unlikely to cause ground or water pollution. Partition into soil is unlikely.
12.5. Results of PBT and vPvB assessment	
Assessment	: No data available.
12.6. Other adverse effects	
Other adverse effects	: Can cause frost damage to vegetation.
Effect on the ozone layer	: None.
Effect on global warming	: None.
SECTION 13: Disposal consideration	ons
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 receptacle to supplier.
List of hazardous waste codes (from Commission Decision 2001/118/EC)	: 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.



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## Alipak 100 refrigerated liquid

SECTION 14: Transport information	
14.1. UN number	
JN-No.	: 1977
14.2. UN proper shipping name	
Fransport by road/rail (ADR/RID)	- NITROGEN, REFRIGERATED LIQUID
Fransport by air (ICAO-TI / IATA-DGR)	: Nitrogen, refrigerated liquid
Fransport by sea (IMDG)	<sup>1</sup> NITROGEN, REFRIGERATED LIQUID
14.3. Transport hazard class(es)	
_abelling	
	2
	2.2 : Non-flammable, non-toxic gases.
Fransport by road/rail (ADR/RID) Class	: 2
Classification code	· 2 : 3A
Hazard identification number	: 22
Funnel Restriction	: C/E - Tank carriage : Passage forbidden through tunnels of category C, D and E. Other carriage : Passage
Fransport by air (ICAO-TI / IATA-DGR)	forbidden through tunnels of category E
Class / Div. (Sub. risk(s))	: 2.2
Fransport 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	
Fransport by road/rail (ADR/RID)	: Not applicable
Fransport by air (ICAO-TI / IATA-DGR)	: Not applicable
Fransport by sea (IMDG)	: Not applicable
14.5. Environmental hazards	
Transport by road/rail (ADR/RID)	: None.
Fransport by air (ICAO-TI / IATA-DGR)	: None.
Fransport by sea (IMDG)	: None.
14.6. Special precautions for user	
Packing Instruction(s)	
Fransport by road/rail (ADR/RID)	: P203
Fransport by air (ICAO-TI / IATA-DGR)	
Passenger and Cargo Aircraft	: 202.
Cargo Aircraft only	: 202.
Fransport by sea (IMDG)	: P203
Special transport precautions	: Avoid transport on vehicles where the load space is not separated from the driver's compartment.
	<ul> <li>Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of ar accident or an emergency.</li> <li>Before transporting product containers: <ul> <li>Ensure there is adequate ventilation.</li> <li>Ensure that containers are firmly secured.</li> <li>Ensure container valve is closed and not leaking.</li> <li>Ensure valve outlet cap nut or plug (where provided) is correctly fitted.</li> <li>Ensure valve protection device (where provided) is correctly fitted.</li> </ul> </li> </ul>
	ex II of MARPOL 73/78 and the IBC Code
4.7 There are set in built and the set	

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture



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EU-Regulations	
Restrictions on use	: None.
Seveso Directive : 2012/18/EU (Seveso III)	: Not covered.
National regulations	
National legislation	: Ensure all national/local regulations are observed.
15.2. Chemical safety assessment	
	A CSA does not need to be carried out for this product.
<b>SECTION 16: Other information</b>	
Indication of changes	: Revised safety data sheet in accordance with commission regulation (EU) No 453/2010.
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
	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
Training advice	: 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
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.