

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

SDS\_Ind.Mix\_017

## **Alipak Fruitmix**

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier		
Product form	: Mixture	
Trade name	: Alipak Fruitmix	
SDS code	: SDS_Ind.Mix_017	
Internal reference no.	: 000394	
1.2. Relevant identified uses of the 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 the 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 number		
Emergency telephone number	: +39 0295705444 (24/7)	

### **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture			
Classification according to Regulation (EC) No. 1272/2008 [CLP]			
Physical hazards	Oxidising Gases, Category 1	H270	
	Gases under pressure: Liquefied gas	H280	
Health hazards	Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336	

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

: GHS03 GHS04 GHS07
: Danger
H270 - May cause or intensify fire; oxidiser.
: H280 - Contains gas under pressure; may explode if heated.
H336 - May cause drowsiness or dizziness.
- Prevention : P220 - Keep away from clothing and other combustible materials.
P244 - Keep valves and fittings free from oil and grease.
<ul> <li>Response : P304+P340+P315 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get immediate medical advice / attention.</li> <li>P370+P376 - In case of fire: stop leak if safe to do so.</li> </ul>
- Storage : P403 - Store in a well-ventilated place.

### 2.3. Other hazards

Other hazards not contributing to the classification

: Contact with liquid may cause cold burns/frostbite.

### **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

- Not applicable
- 3.2. Mixtures



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

#### SDS\_Ind.Mix\_017

# **Alipak Fruitmix**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nitrous oxide	CAS-No.: 10024-97-2 EC-No.: 233-032-0 EC Index-No.: Registration-No.: 01-2119970538-25	65	Ox. Gas 1, H270 Press. Gas (Liq.), H280 STOT SE 3, H336
Argon	CAS-No.: 7440-37-1 EC-No.: 231-147-0 EC Index-No.: Registration-No.: *1	25	Press. Gas (Comp.), H280
Carbon dioxide	CAS-No.: 124-38-9 EC-No.: 204-696-9 EC Index-No.: Registration-No.: *1	5	Press. Gas (Liq.), H280
Oxygen	CAS-No.: 7782-44-7 EC-No.: 231-956-9 EC Index-No.: 008-001-00-8 Registration-No.: *1	5	Ox. Gas 1, H270 Press. Gas (Comp.), H280

Full text of H-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.

\*2: Registration deadline not expired.

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

### **SECTION 4: First aid measures**

4.1. Description of first aid	neasures
- 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	<ul> <li>In case of frostbite spray with water for at least 15 minutes. Apply a sterile dressing. Obtain medical assistance.</li> </ul>
- 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 sympto	ms and effects, both acute and delayed
	In low concentrations may cause narcotic effects. Symptoms may include dizziness, headache, nausea and loss of co-ordination. Refer to section 11.

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

Obtain medical assistance.

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 subs	stance or mixture
Specific hazards	: Supports combustion. Exposure to fire may cause containers to rupture/explode.
Hazardous combustion products	: Nitric oxide/nitrogen dioxide.
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>Move containers away from the fire area if this can be done without risk.</li> </ul>
Special protective equipment for fire fighters	Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. Standard EN 943-2: Protective clothing against liquid and gaseous chemicals, aerosols and solid particles. Gas-tight chemical protective suits for emergency teams. 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

 Try to stop release.

 Evacuate area.
 Konitor concentration of released product.

 Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
 Eliminate ignition sources.



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

#### SDS\_Ind.Mix\_017

## **Alipak Fruitmix**

	•
	Ensure adequate air ventilation. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Act in accordance with local emergency plan. Stay upwind.
6.2. Environmental precautions	
	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 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. 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>Keep equipment free from oil and grease.</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>Use only oxygen approved lubricants and oxygen approved sealings.</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>
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. Segregate from flammable gases and other flammable materials in store. 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)		
OEL : Occupational Exposure Limits		
	ACGIH TWA (ppm)	5000 ppm
ACGIH	ACGIH STEL (ppm)	30000 ppm
	Remark (ACGIH)	Asphyxia



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

SDS\_Ind.Mix\_017

# **Alipak Fruitmix**

	Regulatory reference	ACGIH 2017
	TWA (IT) OEL 8h [mg/m <sup>3</sup> ]	9000 mg/m <sup>3</sup>
Italy	TWA (IT) OEL 8h [ppm]	5000 ppm
	Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.
Nitrous oxide (10024-97-2)		
OEL : Occupational Exposure L	ACGIH TWA (ppm)	50 nnm
ACGIH	Remark (ACGIH)	50 ppm CNS impair; hematologic eff
	Regulatory reference	ACGIH 2017
Nitrous oxide (10024-97-2)		
DNEL: Derived no effect level (	Workers)	
Long-term - systemic effects	,	mg/m³
PNEC (Predicted No-Effect Conc	centration) : None established.	
3.2. Exposure controls		
8.2.1. Appropriate engineer	ring controls	
	Provide adequate general	and local exhaust ventilation.
	Product to be handled in a	a closed system.
		should be regularily checked for leakages.
	•	occupational exposure limits (where available).
		used when oxidising gases may be released.
		k permit system e.g. for maintenance activities.
3.2.2. Individual protection	measures, e.g. personal protective equipm	ent
		be conducted and documented in each work area to assess the risks related to t select the PPE that matches the relevant risk. The following recommendations
	PPE compliant to the reco	mmended EN/ISO standards should be selected.
Eye/face protection	: Wear goggles when transf	filling or breaking transfer connections.
	Standard EN 166 - Persor	nal eye-protection - specifications.
Skin protection		
- Hand protection	: Wear working gloves whe	n handling gas containers.
	Standard EN 388 - Protec	tive gloves against mechanical risk.
	Wear cold insulating glove	es when transfilling or breaking transfer connections.
	Standard EN 511 - Cold ir	nsulating gloves.
- Other	: Wear safety shoes while h	andling containers
Other		Personal protective equipment - Safety footwear.
<ul> <li>Respiratory protection</li> </ul>		all surrounding conditions e.g. type and concentration of the contaminant(s) and
		e mask, where exposure limits may be exceeded for a short-term period, e.g.
	Consult respiratory device	supplier's product information for the selection of the appropriate device.
	Gas filters do not protect a	against oxygen deficiency.
	Standard EN 14387 - Gas	filter(s), combined filter(s) and full face mask - EN 136.
	Keep self contained breat	hing apparatus readily available for emergency use.
	Self contained breathing a	pparatus is recommended, where unknown exposure may be expected, e.g. ties on installation systems.
	Standard EN 137 - Self-co	ontained open-circuit compressed air breathing apparatus with full face mask.
Thermal hazards	: None in addition to the ab	ove sections.
8.2.3. Environmental expos	sure controls	
		for restriction of emissions to the atmosphere. See section 13 for specific method

9.1. Information on basic physical and chemical properties		
Appearance		
Physical state at 20°C / 101.3kPa	: Gas	
• Colour	Mixture contains one or more component(s) which have the following colour(s): Colourless. There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.	
Odour	<ul> <li>Mixture contains one or more component(s) which have the following odour:</li> <li>Sweetish.</li> </ul>	
Odour threshold	: Odour threshold is subjective and inadequate to warn of overexposure.	
pH	: Not applicable for gases and gas mixtures.	
Melting point / Freezing point	: Not applicable for gas mixtures.	
Boiling point	: Not applicable for gas mixtures.	
Flash point	: Not applicable for gases and gas mixtures.	

**SECTION 9: Physical and chemical properties** 



## Safety Data Sheet

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

#### SDS\_Ind.Mix\_017

Alipak	Fruitmix
Anpan	I I MILIIIA

Evaporation rate	: Not applicable for gases and gas mixtures.
Flammability (solid, gas)	: Non flammable.
Explosive limits	: Non flammable.
Vapour pressure [20°C]	: Not known.
Vapour density	: Not applicable.
Relative density, gas (air=1)	: Heavier than air.
Partition coefficient n-octanol/water (Log Kow)	: Not applicable for gas mixtures.
Auto-ignition temperature	: Non flammable.
Decomposition temperature	: Not applicable.
Viscosity	: No reliable data available.
Explosive properties	: Not applicable.
Oxidising properties	: Oxidiser.
9.2. Other information	
Molar mass	: Not applicable for gas mixtures.
Other data	: Gas/vapour heavier than air. May accumulate in confined spaces, particularly at or below ground level.
SECTION 10: Stability and reactivit	V
•	
10.1. Reactivity	

10.1. Reactivity	
	No reactivity hazard other than the effects described in sub-sections below.
10.2. Chemical stability	
	Stable under normal conditions.
10.3. Possibility of hazardous reactions	
	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 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 toxicological effects		
Acute toxicity	: Classification criteria are not met.	

Acute toxicity	: Classification criteria are not met.
Nitrous oxide (10024-97-2)	
LC50 inhalation rat	50000 ppm/4h
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	: May cause drowsiness or dizziness.
STOT-repeated exposure	: No known effects from this product.
Aspiration hazard	: Not applicable for gases and gas mixtures.

SECTION 12: Ecological information		
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.	



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

#### SDS\_Ind.Mix\_017

# **Alipak Fruitmix**

12.2. Persistence and degradability	
Assessment	: No data available.
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	: Not classified as PBT or vPvB.
12.6. Other adverse effects	
Other adverse effects	: No known effects from this product.
Effect on the ozone layer	: None.
Effect on global warming	: Contains greenhouse gas(es).
SECTION 13: Disposal consideratio	ns
13.1. Waste treatment methods	
	Contact supplier if guidance is required. Do not discharge into any place where its accumulation could be dangerous. 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. Return unused product in original receptacle to supplier.
List of hazardous waste codes (from Commission Decision 2001/118/EC)	: 16 05 04 *: Gases in pressure containers (including halons) containing dangerous substances.
13.2. Additional information	
	External treatment and disposal of waste should comply with applicable local and/or national regulations.

<b>SECTION 14: Transport informat</b>	ion
14.1. UN number	
UN-No.	: 3157
14.2. UN proper shipping name	
Transport by road/rail (ADR/RID)	: LIQUEFIED GAS, OXIDIZING, N.O.S. (Nitrous oxide, Oxygen)
Transport by air (ICAO-TI / IATA-DGR)	Liquefied gas, oxidizing, n.o.s. (Nitrous oxide, Oxygen)
Transport by sea (IMDG)	: LIQUEFIED GAS, OXIDIZING, N.O.S. (Nitrous oxide, Oxygen)
14.3. Transport hazard class(es)	
Labelling	
	2.2 : Non-flammable, non-toxic gases.
Transport by road/rail (ADR/RID)	5.1 : Oxidizing substances.
Class	: 2
Classification code	: 20
Hazard identification number	: 25
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)	
Class / Div. (Sub. risk(s))	: 2.2 (5.1)
Transport by sea (IMDG)	
Class / Div. (Sub. risk(s))	: 2.2 (5.1)



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

### SDS\_Ind.Mix\_017

# **Alipak Fruitmix**

Emergency Schedule (EmS) - Fire	: F-C
Emergency Schedule (EmS) - Spillage	: S-W
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 container 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. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

15.1 Safety health and environmental re-	gulations/legislation specific for the substance or mixture
EU-Regulations	
Restrictions on use	: None.
Seveso Directive : 2012/18/EU (Seveso III)	: 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.
SECTION 16: Other information	
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
Caria Desduring Ideagang Ossignan Osl	



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

#### SDS\_Ind.Mix\_017

# **Alipak Fruitmix**

	UN: United Nations ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
	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	: Users of breathing apparatus must be trained.
	Ensure operators understand the hazard of oxygen enrichment.
Further information	: Classification using data from databases maintained by the European Industrial Gases Association (EIGA).
	Classification in accordance with the calculation methods of Regulation (EC) 1272/2008 CLP.

#### Full wording of relevant H Statements and classification codes

Ox. Gas 1	Oxidising Gases, Category 1
Press. Gas (Comp.)	Gases under pressure: Compressed gas
Press. Gas (Liq.)	Gases under pressure: Liquefied gas
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H270	May cause or intensify fire; oxidiser.
H280	Contains gas under pressure; may explode if heated.
H336	May cause drowsiness or dizziness.

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.