

Safety Data Sheet

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

SDS_Ind.Mix_184

Eliomix ND 13.5 4.5

SECTION 1: Identification of the substance/mixture and of the company/undertaking 1. Product identifier Product form :: Mixture Trade name :: Ellomix ND 13.5.4.5 SDS code SDS ind Mx, 184 International reference no. : ODTRI 1.2. Relevant identified uses of the substance or mixture and uses advised against Contact supplier of more information on uses. Consumer use. Consumer use. 1.3. Details of the supplier of the safety data sheet Company identification Sapio Produzione idrogeno Ossigeno Sri Via S. Pelico, 48 Vise Produzione idrogeno Ossigeno Sri Vise Safety data sheet Company identification Sapio Produzione idrogeno Ossigeno Sri Vise Produzione idrogeno Ossigeno Sri Vise Safety data sheet Company identification Company identification Company identification Company identification Company identification Company identificat			
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Trade name Image in the image intervent	1.1. Product identifier		
Relevant identified uses :: Industrial and professional. Perform risk assessment prior to use. Contract supplier for more information on uses. Uses advised againt :: Somsumer use. 13. Details of the supplier of the safety data :: Company identification :: Sapio Productione Idrogeno Ossigeno Srl Via S. Pellico, 48 2000 Monza - TALIA + 39 039 83801 -39 039 838068 + 39 039 8381 -39 039 838068 A. Emergency telephone number :: 4 : 39 0295705444 (24/7) SECTION 21: Hazards identification :: 4 : 39 0295705444 (24/7) Classification of the substance or mixture Image: Sapio Idrogene Stresses Classification according to Regulation (EC) No. 1272/2008 (CLP) H280 Physical hazards Gases under pressure: Compressed gas H280 Classification according to Regulation (EC) No. 1272/2008 (CLP) H280 Physical hazards Gases under pressure: Compressed gas H280 Classification according to Regulation (EC) No. 1272/2008 (CLP) H280 H280 Azard pictograms (CLP) :: Varning H280 H280 Signal word (CLP) :: H280 - Contains gas under pressure; may explode if heated. H280 Signal word (CLP) :: H280 - Contains gas under pressure; may explode if heated. H280 Signal word (CLP) : H280	Trade name SDS code	: Eliomix ND 13.5 4.5 : SDS_Ind.Mix_184	
Contact supplier for more information on uses.Uses advised against:Company identification:Sepio Produzione Idrogeno Ossigeno Sri Via S. Pellico. 48 20900 Monza - ITALIA +39 039 3380 F1 +39 039 338068 http://www.sapio.it ads@sapio.it 1.4. Emergency telephone number :Emergency telephone number:SECTION 2: Hazards identification 2.1. Classification of the substance or mikure Classification to the substance or mikure Classification to Regulation (EC) No. 1272/2008 [CLP]Physical hazardsGases under pressure: Compressed gasHazard pictograms (CLP):Hazard pictograms (CLP):Warning Hazard statements (CLP):Precautionary statements (CLP):Preca	1.2. Relevant identified use	es of the substance or mixture and uses advised against	
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	Precautionary statements (CLP)		
		- Storaye . F403 - Store III a weil-veritilateu place.	
	2.3. Other hazards		

Other hazards not contributing to the classification

: Asphyxiant in high concentrations.

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]
Helium	CAS-No.: 7440-59-7 EC-No.: 231-168-5 EC Index-No.: Registration-No.: *1	82	Press. Gas (Comp.), H280
Nitrogen	CAS-No.: 7727-37-9 EC-No.: 231-783-9 EC Index-No.: Registration-No.: *1	13,5	Press. Gas (Comp.), H280
Carbon dioxide	CAS-No.: 124-38-9 EC-No: 204-696-9 EC Index-No.: Registration-No.: *1	4,5	Press. Gas (Liq.), H280

Full text of H-statements: see section 16

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



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

SDS_Ind.Mix_184

Eliomix ND 13.5 4.5

*2: Registration deadline not expired.

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

SECTION 4: First aid m	easures	
4.1. Description of first aid m	easures	
- 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 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.

SECTION 5: Firefighting measure	es and a second s
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	 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.
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.

SECTION 6: Accidental release r	neasures	
6.1. Personal precautions, protective eq	uipment and emergency procedures	
	Try to stop release. Evacuate area. Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe. Ensure adequate air ventilation. Act in accordance with local emergency plan. Stay upwind. Oxygen detectors should be used when asphyxiating gases may be released.	
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	ge	
7.1. Precautions for safe handling		
Safe use of the product	: The product must be handled in accordance with good industrial hygiene and safety procedures.	

Consider pressure relief device(s) in gas installations.

Only experienced and properly instructed persons should handle gases under pressure.



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

SDS_Ind.Mix_184

	Eliomix ND 13.5 4.5
Safe handling of the gas receptacle	 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. Avoid suck back of water, acid and alkalis. Do not breathe gas. Avoid release of product into atmosphere. Do not allow backfeed into the container. Protect receptacles from physical damage; do not drag, roll, slide or drop. When moving receptacles, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport receptacles. 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 receptacle 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 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 receptacle contents. Suck back of water into the container must be prevented.
7.2. Conditions for safe storage, including	Open valve slowly to avoid pressure shock.
	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)				
OEL : Occupational Exposure Limi	ts			
ACGIH	ACGIH TWA (ppm)	5000 ppm		
	ACGIH STEL (ppm)	30000 ppm		
ACGIN	Remark (ACGIH)	Asphyxia		
	Regulatory reference	ACGIH 2017		
	TWA (IT) OEL 8h [mg/m ³]	9000 mg/m ³		
Italy	TWA (IT) OEL 8h [ppm]	5000 ppm		
	Regulatory reference	Allegato XXXVIII del D.Lgs. 9 aprile 2008, n. 81 e s.m.i.		
DNEL (Derived-No Effect Level)	: None available.			
PNEC (Predicted No-Effect Concent	ration) : None available.			
8.2. Exposure controls				
8.2.1. Appropriate engineering	g controls			
	Provide adequate general and lo	cal exhaust ventilation.		
		be regularily checked for leakages.		
		ational exposure limits (where available).		
		d when asphyxiating gases may be released.		
	,,,	Consider the use of a work permit system e.g. for maintenance activities.		
8.2.2. Individual protection m	easures, e.g. personal protective equipment	it system e.g. for maintenance activities.		
	A risk assessment should be cor	nducted and documented in each work area to assess the risks related to the		
	use of the product and to select the should be considered:	the PPE that matches the relevant risk. The following recommendations		
	PPE compliant to the recommen	ded EN/ISO standards should be selected.		
 Eye/face protection 	: Wear safety glasses with side sh	: Wear safety glasses with side shields.		
	Standard EN 166 - Personal eye	-protection - specifications.		
Skin protection				
- Hand protection	: Wear working gloves when hand	ling gas containers.		



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

SDS_Ind.Mix_184

	Eliomix ND 13.5 4.5
	Standard EN 388 - Protective gloves against mechanical risk.
- Other	: Wear safety shoes while handling containers.
	Standard EN ISO 20345 - Personal protective equipment - Safety footwear.
Respiratory protection	: Gas filters may be used if all surrounding conditions e.g. type and concentration of the contaminant(s) and duration of use are known.
	Use gas filters with full face mask, where exposure limits may be exceeded for a short-term period, e.g. connecting or disconnecting containers.
	Gas filters do not protect against oxygen deficiency.
	Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen- deficient atmospheres.
	Standard EN 14387 - Gas filter(s), combined filter(s) and full face mask - EN 136.
	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.

9.1. Information on basic physical and ch	emical 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.
Odour	: Odourless.
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.
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, gas (air=1)	: Lighter or similar to 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	: Not applicable.

Molar mass Other data

SECTION 10: Stability and 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		
	None.	
10.4. Conditions to avoid		
	Avoid moisture in installation systems.	
10.5. Incompatible materials		
	None. For additional information on compatibility refer to ISO 11114.	
10.6. Hazardous decomposition products		
	Under normal conditions of storage and use, hazardous decomposition products sho	ould not be produced.
Sapio Produzione Idrogeno Ossigeno Srl	EN (English) Internal reference no.: 001781	4/7

: Not applicable for gas mixtures.

: None.



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

SDS_Ind.Mix_184

Eliomix ND 13.5 4.5

SECTION 11: Toxicological information	SECTION 11:	Toxicologic	al informati	on
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11.1. Information on toxicological effects		
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.	

SECTION 12: Ecological information	1
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	: 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 consideration	ns
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.
SECTION 14: Transport information	
14.1. UN number	

UN-No.

: 1956



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

Revision date: 04/07/2018 Version: 1.0

SDS_Ind.Mix_184

	Eliomix ND 13.5 4.5
14.2. UN proper shipping name	
Fransport by road/rail (ADR/RID)	COMPRESSED GAS, N.O.S. (Helium, Nitrogen)
Fransport by air (ICAO-TI / IATA-DGR)	Compressed gas, n.o.s. (Helium, Nitrogen)
	COMPRESSED GAS, N.O.S. (Helium, Nitrogen)
Fransport by sea (IMDG)	COMPRESSED GAS, N.O.S. (Helium, Nitrogen)
14.3. Transport hazard class(es)	
abelling	
	2.2 : Non-flammable, non-toxic gases.
Fransport by road/rail (ADR/RID)	
Class	: 2
Classification code	: 1A
Hazard identification number	: 20
Funnel Restriction	: E - Passage forbidden through tunnels of category E
Transport by air (ICAO-TI / IATA-DGR) Class / Div. (Sub. risk(s))	
Fransport by sea (IMDG)	: 2.2
Class / Div. (Sub. risk(s))	: 2.2
Emergency Schedule (EmS) - Fire	: F-C
Emergency Schedule (EmS) - Spillage	: S-V
4.4. Packing group	
ransport by road/rail (ADR/RID)	: Not applicable
Fransport by air (ICAO-TI / IATA-DGR)	: Not applicable
Fransport by sea (IMDG)	: Not applicable
4.5. Environmental hazards	
Fransport 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)	: P200
Fransport by air (ICAO-TI / IATA-DGR)	
Passenger and Cargo Aircraft	: 200.
Cargo Aircraft only	: 200.
ransport 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.
14.7 Transport in bulk according to An	- Ensure valve protection device (where provided) is correctly fitted.
14.7. Transport in bulk according to Ani	nex II of MARPOL 73/78 and the IBC Code Not applicable.
SECTION 15: Regulatory inform	
	egulations/legislation specific for the substance or mixture



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

SDS_Ind.Mix_184

Eliomix ND 13.5 4.5

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 informa	tion
ndication 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.
<u>.</u>	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)
	Classification in accordance with the calculation methods of Regulation (EC) 1272/2008 CLP.

Full wording of relevant H Statements and classification codes

Press. Gas (Comp.)	Gases under pressure: Compressed gas
Press. Gas (Liq.)	Gases under pressure: Liquefied gas
H280	Contains gas under pressure; may explode if heated.

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.