

Safety Data Sheet

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

Air

Reference number: 000B Revision date: 04/05/2021 Supersedes version of: 10/01/2019 Issue date: 10/01/2019 Version: 7.0

Warning



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

1.1. Product identifier			
SDS no	: 000B		
1.2. Relevant identified uses of the substance or mixture and uses advised against			
Relevant identified uses	: Industrial and professional uses. Perform risk assessment prior to use.		
Uses advised against	Contact supplier for more information on uses. : Consumer use.		
1.3. Details of the supplier of the safety data she	et		
Company identification E-Mail address (competent person)	 SOL SpA Via G. Borgazzi 27 20900 MONZA - Italia T +39 039 23.96.1 http://www.sol.it msds@sol.it msds@sol.it 		
1.4. Emergency telephone number			
Emergency telephone number	: Linea verde SET - 800452661 (24h/24h, 365 giorni l'anno); Dall'estero +39 0283421263		
SECTION 2: Hazards identification	·		
2.1. Classification of the substance or mixture			
Classification according to Regulation (EC) No. 1	272/2008 [CLP]		
Physical hazards Gases under pressure : Compressed gas H280			
2.2. Label elements			
Labelling according to Regulation (EC) No. 1272/2	2008 [CLP]		
Hazard pictograms (CLP)	GHS04		
Signal word (CLP) Hazard statements (CLP) Precautionary statements (CLP) - Storage	 : Warning : H280 - Contains gas under pressure; may explode if heated. : P403 - Store in a well-ventilated place. 		
2.3. Other hazards			
	None.		
SECTION 3: Composition/information o			

3.1. Substances

Not applicable

3.2. Mixtures



Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nitrogen Compressed	CAS-No.: 7727-37-9 EC-No.: 231-783-9 EC Index-No.: REACH-no: *1	80	Press. Gas (Comp.), 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-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			
	No effect on living tissue.		
	Refer to 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.		
- Unsuitable extinguishing media	: Do not use water jet to extinguish.		

5.2. Special hazards arising from the substance or mixture

Specific hazards	: Supports combustion.
	Exposure to fire may cause containers to rupture/explode.
Hazardous combustion products	: None.
Reactivity	: This mixture contains components with the following reactivity : Violently oxidises organic material.
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	: 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 equi	ipment and emergency procedures
	Try to stop release. Act in accordance with local emergency plan. Stay upwind.
6.2. Environmental precautions	
	None.
6.3. Methods and material for containmen	t and cleaning up
	None.
6.4. Reference to other sections	
	See also sections 8 and 13.
SECTION 7: Handling and storage	
	G
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. 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. Do not breathe gas.
Safe handling of the gas receptacle	 Avoid release of product into work area. 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 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.
7.2. Conditions for safe storage, including	g 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

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering cont	rols
	Provide adequate general and local exhaust ventilation. Systems under pressure should be regularily checked for leakages. Consider the use of a work permit system e.g. for maintenance activities.
8.2.2. Individual protection measure	es, e.g. personal protective equipment
	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.
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.
- Other	: Wear safety shoes while handling containers. Standard EN ISO 20345 - Personal protective equipment - Safety footwear.
Respiratory protection	 Self contained breathing apparatus (SCBA) or positive pressure airline with mask are to be used in oxygen-deficient atmospheres. Standard EN 137 - Self-contained open-circuit compressed air breathing apparatus with full face mask.
 Thermal hazards 	: None necessary.
8.2.3. Environmental exposure cont	rols

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	: 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.
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рН	: Not applicable for gas mixtures.
Melting point / Freezing point	: Not applicable for gas mixtures.
Boiling point	: Not applicable for gas mixtures.
Flash point	: Not applicable for gas mixtures.
Evaporation rate	: Not applicable for gas mixtures.
Flammability (solid, gas)	:
Explosive limits	: Non flammable.
Vapour pressure [20°C]	: Not applicable.
Vapour pressure [50°C]	: 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.
Viscosity	: Not applicable.
Explosive properties	: Not applicable.
Oxidising properties	: Not applicable.



9.2. Other information	
Molar mass	: Not applicable for gas mixtures.
Other data	None.
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	
	None under recommended storage and handling conditions (see section 7). None.
10.5. Incompatible materials	
	None.
	For additional information on compatibility refer to ISO 11114.
10.6. Hazardous decomposition products	
	None.
SECTION 11: Toxicological information	
11.1. Information on toxicological effects	

Acute toxicity	: No 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.

SECTION 12: Ecological information

12.1. Toxicity

SOL SpA	en (English)	Reference number: 000B	5
Assessment	: No data available.		
<u>12.4. Mobility in soil</u>			
Assessment	: No data available.		
12.3. Bioaccumulative potential			
Assessment	: No data available.		
12.2. Persistence and degradability			
LC50 96 h - Fish [mg/l]	: No data available.		
EC50 72h - Algae [mg/l]	: No data available.		
EC50 48h - Daphnia magna [mg/l]	: No data available.		
Assessment	: No ecological damag	e caused by this product.	



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12.5. Results of PBT and vPvB assessment			
Assessment	: Not classified as PBT or vPvB.		
12.6. Other adverse effects			
Effect on the ozone layer	: None.		
Effect on global warming	: No known effects from this product.		
SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
	Contact supplier if guidance is required.		
	May be vented to atmosphere. Do not discharge into any place where its accumulation could be dangerous.		
	Refer to the EIGA code of practice Doc.30 "Disposal of Gases", downloadable at		
	http://www.eiga.org for more guidance on suitable disposal methods.		
List of hazardous waste codes (from Commission	: 16 05 05 : Gases in pressure containers other than those mentioned in 16 05 04.		
Decision 2000/532/EC as amended)			
13.2. Additional information			
	None.		
SECTION 14: Transport information			
<u>14.1. UN number</u>			
In accordance with ADR / RID / IMDG / IATA / ADN			
UN-No.	: 1002		
14.2. UN proper shipping name			
Transport by road/rail (ADR/RID)	: AIR, COMPRESSED		
Transport by air (ICAO-TI / IATA-DGR)	: Air, compressed		
Transport by sea (IMDG)	: AIR, COMPRESSED		
14.3. Transport hazard class(es)			
Labelling			
	2		
	2.2 : Non-flammable, non-toxic gases.		
Transport by road/rail (ADR/RID)	. 2		
Class Classification code	: 2 : 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)) Emergency Schedule (EmS) - Fire	: 2.2 : F-C		
Emergency Schedule (EmS) - File Emergency Schedule (EmS) - Spillage	: S-V		
14.4. Packing group			
Transport by road/rail (ADR/RID)	· Not applicable		
Transport by road/rail (ADR/RID) Transport by air (ICAO-TI / IATA-DGR)	: Not applicable : Not applicable		

Transport by road/rail (ADR/RID)	
Transport by air (ICAO-TI / IATA-DGR)	:

None. None. SOL

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. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture					
EU-Regulations					
Other information, restriction and prohibition regulations	: Ensure all national/local regulations are observed.				
Seveso Directive : 2012/18/EU (Seveso III)	: Not covered.				
National regulations					
No additional information available					
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 2015/830.				
Training advice	: Receptacle under pressure.				
Further information	 This Safety Data Sheet has been established in accordance with the applicable European Union legislation. Classification in accordance with the procedures and calculation methods of Regulation (EC) 1272/2008 (CLP). 				

Full text of H- and EUH-statements					
Ox. Gas 1	Oxidising Gases, 0	Oxidising Gases, Category 1			
Press. Gas (Comp.)	Gases under pres	Gases under pressure : Compressed gas			
H270	May cause or inter	May cause or intensify fire; oxidiser.			
H280	Contains gas unde	Contains gas under pressure; may explode if heated.			
DISCLAIMER OF LIABILITY	compatibility ar Details given in Whilst proper c	is product in any new process or experiment, a thoround safety study should be carried out. This document are believed to be correct at the time of are has been taken in the preparation of this document ulting from its use can be accepted.	ime of going to press.		
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