

# Safety data sheet

Complies with Regulation (EC) No. 1907/2006 (REACH) as amended by Regulation (EU) 2015/830

#### **OXYGEN 6.0**

Issue date: 10/14/2021

Revision date: 10/14/2021

Version: 6.0

SDS reference: EIGA097A

<b>SECTION 1: Identificat</b>	ion of the substa	ance/mixture and company/undertaking				
1.1. Product identifier						
Trade name	OXYGEN					
MSDS No.	EIGA097A					
Chemical description						
		per: 7782-44-7				
	N°ONE: 10					
Desite the state of the state o		r: 231-956-9				
Registration number Chemical formula		Annex IV/V of REACH, exempt from registration				
	02 dusos of the substanc	e or mixture and uses advised against				
Relevant uses identified						
Relevant uses identified		and professional. Carry out a risk analysis before use libration gas				
		cutting and brazing.				
	-	reaction/synthesis				
		e gas for welding processes.				
	Water tre					
	Lasing gas	ies.				
	Use in the	e manufacture of electronic or photovoltaic components.				
	Laborator	y use				
	Food appl					
		Contact the supplier for more information on use				
Uses advised against	Consumer					
1.3. Information regard						
Company identification		SARL RAYANOX				
		oua Wilaya of Oran, Algeria				
		79-35-22				
		-79-32-23				
		<u>@rayanox.co</u>				
		nox@gmail.com				
1.4. Emergency call num	<u>mber</u>					
Emergency call number	Tel: +213	365550342				
<b>SECTION 2: Hazard Ide</b>	entification					
2.1. Classification of th	e substance or mixtu	re				
Classification according to Regula						
	ng gases, Category 1	H270				
-	der pressure: Compresse	ed gas H280				
2.2. Label elements						
Labeling according to Regulation	(FC) No. 1272/2008 [CLF					
Hazard pictograms (CLP)	(20) 10: 12/2/2000 [01					
		$\mathbf{V}$ $\mathbf{V}$				
		GHS03 GHS04				
Signal word (CLP)		: Hazard				
Hazard statements (CLP)		: H270 - May cause or aggravate a fire; oxidant.				
		: H281 - Contains gas under pressure; may explode if heated.				
Precautionary statements (CLP)						
	– Prevention:	P220 - Keep away from combustible materials.				
		P244 - No oil or grease on taps and fittings.				
	<ul> <li>Intervention:</li> </ul>	P370+P376 - In the event of fire: close the leak if it can be done without danger.				
2.2 Other demostr	– Storage :	P403 - Store in a well-ventilated area.				
2.3. Other dangers						



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Replaces sheet: 4.0

: Not classified as PBT or vPvB.

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

#### 3.1. Substances

NAME	Product identifier	%			Impu	urities			Classification according to Regulation (EC) No. 1272/2008 [CLP]
Oxygen	<u>(</u> CAS No. 7782-44-7 (EC No.) 231-956-9	99.9999	N2 ≤0.5ppm	Ar ≤1ppm	H2O ≤0.5ppm	CnHm ≤0.1ppm	CO ≤0.1ppm	CO2 ≤0.1ppm	Ox. Gas 1, H270 Press. Gas (Ref. Liq.), H281
Does	s not contain other compo	nents or impur	ities which cou	uld modify the o	classification	of the produ	ct		
32 M	ixtures:Not applicab	le							
5.2. <u>III</u>	inter applied								
CTION 4	4: First aid								
4.1. <u>D</u> e	escription of first aid	<u>1</u>							
- Inha	alation							•	eathing apparatus
									t. Call a doctor.
							ation if the vi	•	reathing.
Chir	n contact			No adverse			aminated are	a.	
	contact			No adverse (					
	estion						ble mode of	exposure	
•	ost important symp	toms <u>and e</u>	ffects <u>, both</u>	-					
						f concentra	tions above 7	'5% may cau	se nausea, dizziness, difficulty
				breathing ar	nd convulsi	ons.			
				Refer to sect	tion 11.				
4.3. <u>In</u>	dication of any imm	ediate med	ical attenti	on and spec	cial treatn	nent need	<u>ed</u>		
				: None).					
CTION !	5: Fire-fighting	measure	S						
	tinguishing media								
	table extinguishing age	nts	Water sp	ray or cloud					
			-	-	burn, use fi	re-fighting	measures ap	propriate for	the surrounding fire
- Uns	uitable extinguishing a	gents	None).					•	<u> </u>
5.2. Sp	ecial hazards arising	g from the s	ubstance o	r mixture					
cific risks		-		s combustion					
			Exposure	to fire may ca	ause contai	iners to rup	ture and exp	ode	
zardous con	nbustion products		None).						
5.3. Ac	dvice for firefighters		,						
pecific methods			Use extingui	ishing medi	a suitable f	or the surrou	nding fire. Ex	posure to fire and heat may cause	
			containers to rupture. Cool exposed containers with water spray from a protected location. Do n						
				allow wateri	ing water u	sed in emei	rgency cases	to flow into t	he gutters.
				If possible, s					
							e the fumes t		
								er with wate	r. Water the surrounding area (fro
				protected lo					
ocial protoct	ive equipment for firef	ightors					t can be done		s. for firefighters
pecial protective equipment for firefighters		igneis			•				rd EN 659: Protective gloves
				For firefight			ing for meng	iters. standa	
	6: Measures to	be taker	າ in the <del>ເ</del>	event of a	acciden	tal relea	ase		
	ersonal precautions,	protective	equipment	and emerg	ency proc	edures			
6.1. Pe				Act accordin	ng to the loo	cal emerger	ncy plan		
	ers								
	ers			Try to stop t	he leak				
6.1. <u>Pe</u> r non-rescue	ers			Try to stop t Evacuate the					
	275				e area.				

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6.3. <u>Meth</u> 6.4. <u>Refe</u> ECTION 7: 7.1. <u>Preca</u> fety when using	cautions for environmental pre- chods and material for containations erence to other SECTIONS Handling and storage cautions for safe handling	Check the concer Wear a self-contiverified that it is See section 5.3 o Try to stop the le Liquid spills can control the spills can contr	air ventilation. the SDS for more information on personal protective equination of the released product. ained breathing apparatus (SCBA) when entering the area safe f the SDS for more information ak. ause embrittlement of building materials a 8 and 13 t be handled in accordance with good industrial hygiene h appropriate experience and training should handle gass pressure safety valve(s) to the installation. the entire gas installation has been (or is regularly) che hile handling the product. free of oil and grease	a unless you have and safety procedur es under pressure. ecked for the absenc
r first aiders 6.2. <u>Prec</u> 6.3. <u>Meti</u> 6.4. <u>Refe</u> ECTION 7: 7.1. <u>Prec</u> fety when using	cautions for environmental pre- chods and material for containation of the section of the sections for safe handling and storage cautions for safe handling	Ensure adequate See section 8 of t Check the concer Wear a self-contriverified that it is See section 5.3 o rotection Try to stop the le Liquid spills can c inment and cleaning up Ventilate the are See also sections The product mus Only persons wit Consider adding You ensure that leaks, before use Do not smoke wh Keep equipment Do not use oil or Use only specifit temperature. Co Use only lubricar	air ventilation. he SDS for more information on personal protective equination of the released product. ained breathing apparatus (SCBA) when entering the area safe f the SDS for more information ak. ause embrittlement of building materials a 8 and 13 t be handled in accordance with good industrial hygiene h appropriate experience and training should handle gas pressure safety valve(s) to the installation. the entire gas installation has been (or is regularly) che hile handling the product. free of oil and grease grease. ed equipment appropriate for this product and its of	a unless you have and safety procedur es under pressure. ecked for the absenc
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6.4. <u>Refe</u>	erence to other SECTIONS Handling and storage cautions for safe handling	Ventilate the are See also sections The product mus Only persons wit Consider adding You ensure that leaks, before use Do not smoke wh Keep equipment Do not use oil or Use only specifi temperature. Co Use only lubricar	8 and 13 t be handled in accordance with good industrial hygiene h appropriate experience and training should handle gas pressure safety valve(s) to the installation. the entire gas installation has been (or is regularly) che hile handling the product. free of oil and grease grease. ed equipment appropriate for this product and its o	es under pressure.
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7.1. <u>Prec</u>	cautions for safe handling	The product mus Only persons wit Consider adding You ensure that leaks, before use Do not smoke wh Keep equipment Do not use oil or Use only specifi temperature. Co Use only lubricar	t be handled in accordance with good industrial hygiene h appropriate experience and training should handle gas pressure safety valve(s) to the installation. the entire gas installation has been (or is regularly) che nile handling the product. free of oil and grease grease. ed equipment appropriate for this product and its o	es under pressure.
7.1. <u>Prec</u>	cautions for safe handling	The product mus Only persons wit Consider adding You ensure that leaks, before use Do not smoke wh Keep equipment Do not use oil or Use only specifi temperature. Co Use only lubricar	h appropriate experience and training should handle gas pressure safety valve(s) to the installation. the entire gas installation has been (or is regularly) che nile handling the product. free of oil and grease grease. ed equipment appropriate for this product and its o	es under pressure.
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	g the product	Only persons wit Consider adding You ensure that leaks, before use Do not smoke wi Keep equipment Do not use oil or Use only specifi temperature. Co Use only lubricar	h appropriate experience and training should handle gas pressure safety valve(s) to the installation. the entire gas installation has been (or is regularly) che nile handling the product. free of oil and grease grease. ed equipment appropriate for this product and its o	es under pressure.
fety when hand		Consider adding You ensure that leaks, before use Do not smoke wh Keep equipment Do not use oil or Use only specifi temperature. Co Use only lubricar	pressure safety valve(s) to the installation. the entire gas installation has been (or is regularly) che nile handling the product. free of oil and grease grease. ed equipment appropriate for this product and its o	cked for the absent
fety when hand		You ensure that leaks, before use Do not smoke wh Keep equipment Do not use oil or Use only specifi temperature. Co Use only lubricar	the entire gas installation has been (or is regularly) che nile handling the product. free of oil and grease grease. ed equipment appropriate for this product and its o	
fety when hand		Do not smoke wh Keep equipment Do not use oil or Use only specifi temperature. Co Use only lubricar	nile handling the product. free of oil and grease grease. ed equipment appropriate for this product and its o	onerating pressure
fety when hand		Keep equipment Do not use oil or Use only specifi temperature. Co Use only lubricar	free of oil and grease grease. ed equipment appropriate for this product and its o	onerating pressure
fety when hand		Do not use oil or Use only specifi temperature. Co Use only lubricar	grease. ed equipment appropriate for this product and its o	onerating pressure
fety when hand		temperature. Co Use only lubricar		onerating pressure
fety when hand		Use only lubricar	ntact vour gas supplier it in doupt.	operating pressure
fety when hand		•	its and seals approved for oxygen service	
fety when hand		Use only with cle	aned equipment approved for oxygen use and calculated	d for cylinder pressu
fety when hand			of water, acids and alkalis.	
	dling the gas container	Do not breathe t Refer to the supp	ne gas. Ilier's instructions for handling the container.	
			from rising into the container	
			from physical damage, do not pull, roll, slide, drop :les even a short distance, use a cart (bottle rolls,	
			r transporting bottles	
			tection cap in place until the container is again secured e	ither by a wall or sup
			ntainer or placed in position for use. Sounters any difficulty opening or closing the cylinder	valve the user sh
			and contact the supplier	valve, the user sh
			repair or modify a container valve or its pressure relief of	devices.
		•	s should be reported immediately to the supplier from containers clean and not contaminated, particularly	v with oil or water
			has been equipped with one, as soon as it has been	-
		-	ace the cap or the tap outlet cap.	
		Close the contai equipment.	ner tap after each use and when empty, even if it is	s still connected to
		Never attempt to	transfer gases from a bottle/container into another con	
			t flame or electric heater to increase the pressure in the r damage the labels put by the supplier to identify the co	
			om being drawn into the container.	Sincents of the bottle
		Open the tap slow	wly to avoid a sudden build-up of pressure (water hamm	er).
7.2. <u>Conc</u>	ditions for safe storage, inclu		egulations and requirements for container storage.	
		Containers shoul	d not be stored in conditions likely to aggravate corrosion	n.
			overs or caps must be in place. be stored in an upright position and secured to prevent f	falling.
		Containers in sto	ck should be periodically checked for general condition a	and absence of leaks.
			er in a well-ventilated area, at a temperature below 50°( ate flammable gases and other flammable materials	с
			in areas not exposed to the risk of fire and away from sou	rces of heat and igni
7.2 6	oific and us-(-)	Keep away from	combustible materials	
7.3. <u>Spec</u>	<u>cific end use(s)</u>	: None).		
RL RAYANOX Bethioua Wilaya of Oran Jeria.		EN: French		



## **OXYGEN 6.0**

Replaces sheet: 4.0

Revision date: 10/14/2021

Version: 6.0

SECTION 8: Exposure controls/persona	l protection
8.1. Control Settings	
OEL (Occupational Exposure Limits)	: Not available.
DNEL (Derived No Effect Dose)	: Not available.
PNEC (Predicted No Effect Concentration(s))	: Not available.
8.2. Exposure controls	
8.2.1. Appropriate technical controls	
	Maintain appropriate exhaust ventilation locally and overall.
	Pressure equipment should be checked regularly for leaks
	Avoid atmospheres enriched in oxygen (>23.5%)
	Gas detectors should be used when oxidizing gases are likely to be released
	Think about work permits, e.g. for maintenance.
8.2.2. Personal protective equipment	
	A risk analysis of the use of the product must be conducted and documented in all workplaces
	affected by the use of the product in order to choose personal safety equipment regarding the
	identified risks. The following recommendations should be considered
	Choose Personal Protective Equipment that complies with recommended EN/ISO standards.
Eye/face protection	Wear tight safety glasses and a face shield when transferring or disconnecting transfer lines.
	Standard EN 166 - Individual eye protection - Specifications.
Skin protection	
-Hand protection	Wear protective gloves when handling gas cylinders.
	Standard EN 388-Protective gloves against mechanical risks.
	Wear cold-insulating gloves during transfer or disconnection of transfer lines.
	Standard EN 511 - Insulating gloves against the cold.
- Miscellaneous	Consider the use of fire-resistant safety clothing.
	Standard EN ISO 14116 - Materials with limited flame expansion.
	Wear safety shoes when handling cylinders.
	Standard EN ISO 20345: Personal Protective Equipment - safety shoes.
Respiratory protection	None required for normal use. Self-contained breathing apparatus should be used when working
The second states	with this product in confined spaces.
Thermal risks	Wear insulating gloves against the cold. Wear cold-insulating gloves when transferring or breaking the transfer.
8.2.3. Ambient exposure controls	
	Refer to local regulations for atmospheric emission restrictions. See Section 13 for specific methods
	for treating waste gases.

#### **SECTION 9: Physical and chemical properties**

Information on essential physical and chemical ph	
Appearance	
<ul> <li>Physical state at 20°C / 101.3kPa</li> </ul>	: Gaseous
Color	: Colorless.
Smell	: Not detectable by odor
Olfactory threshold	: Detection of thresholds by smell is subjective and inappropriate for warning in the event of overexposure
рН	: Not applicable to gases and gas mixtures.
Melting point / Freezing point	: -219°C / -218.4°C
Boiling point	: -183°C
Flash point	: Not applicable to gases and gas mixtures.
Evaporation rate	: Not applicable to gases and gas mixtures.
Flammability (solid, gas)	: Non-flammable.
Explosive limits	: Non-flammable.
Vapor pressure [20°C]	: Not applicable.
Vapor pressure [50°C]	: Not applicable.
Vapor density	: Not applicable.
Relative density, liquid (water=1)	: 1.1
Relative density, gas (air=1)	: 1.1
Water solubility	: 39 mg/l
Partition coefficient n-octanol/water (Log Kow)	: Not applicable to inorganic gases
Auto-ignition temperature	: Non-flammable.
Decomposition temperature	: Not applicable.
Viscosity	: No reliable data available.
Explosive properties	: Not applicable.
SARL RAYANOX ZA Bethioua Wilaya of Oran, Algeria. Tel: 041-79-35-22/ Fax: 041-79-32-23	EN: French 4/7

Rayan X	OXYG	EN 6.0	
ssue date: 10/14/2021 SDS reference: EIGA097A	Replaces sheet: 4.0	Revision date: 10/14/2021	Version: 6
Dxidizing properties	: Oxidizing.		
Other information			
Aolar mass iritical temperature [°C]	32 g/mol -118°C		
Dxygen equivalence coefficient (Ci)	1		
ECTION 10: Stability and re	eactivity		
10.1. <u>Reactivity</u>			
	No reactivity ha	ard other than the effects described in the sections be	elow
10.2. Chemical stability	Stable under no		
10.3. Possibility of hazardous re			
10.5. <u>1055151117 01 11221 0003 10</u>		s organic matter.	
		if the product spills on structures made of organic ma	iterials (e.g. wood or
	asphalt).		
10.4. Conditions to avoid			
	Avoid humidity i	n installations.	
10.5. Incompatible materials			
	May react violer	tly with combustible materials.	
	May react violer	tly with reducing agents.	
	Keep equipment	free of oil and grease	
	presence of chlo (>30 bar).	nt, in the event that there is inflammation, the potenti rinated or fluorinated polymers in high pressure oxyge mation on compatibility, refer to ISO 11114.	
	temperatures ar suitable materia refrigerated liqu	as carbon steels, low alloy steels and plastic mater id are likely to break. Use Is resistant to the cryogenic conditions present in the s efied gases for specific recommendations	
10.6. Hazardous decomposition	products : None).		

#### 10.6. Hazardous decomposition products

# **SECTION 11: Toxicological information**

acute toxicity	: This product has no known toxicological effects.
Skin corrosion/irritation	: No known effects with this product.
Serious eye damage/eye irritation	: No known effects with this product.
Respiratory or skin sensitization	: No known effects with this product.
Cell mutagenicity	: No known effects with this product.
Carcinogenicity	: No known effects with this product.
Toxic for reproduction: fertility	: No known effects with this product.
Toxic for reproduction: fetus	: No known effects with this product.
Specific target organ toxicity — single exposure	: No known effects with this product.
Specific target organ toxicity – repeated exposure	: No known effects with this product.
Inhalation hazard	: Not applicable to gases and gas mixtures

SECTION 12: Ecological information		
12.1. <u>Toxicity</u>		
Assessment	This product is ecologically safe.	
EC50 48h - Daphnia magna [mg/l]	No data available.	
EC50 72h - Algae [mg/l]	No data available.	
LC50 96 Hours - fish [mg/l]	No data available.	
12.2. Persistence and degradability		
Assessment	This product is ecologically safe.	
12.3. Bioaccumulation potential		
Assessment	This product is ecologically safe.	
12.4. Mobility in the ground		
Assessment	Due to its high volatility, pollution of soil or water by this product is unlikely.	
	Penetration into the ground not likely.	
12.5. Results of PBT and VPVB assessments		
Assessment	No data available.	
SARL RAYANOX ZA Bethinua Wilava of Oran	EN: French	5/7



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### **OXYGEN 6.0**

Replaces sheet: 4.0

Revision date: 10/14/2021

Version: 6.0

12.6. Other adverse effects	
Other adverse effects	May cause frost damage to vegetation.
Effect on the ozone layer	: None).
Effect on global warming	: None).
SECTION 13: Disposal Considerations	
13.1. Waste treatment methods	
	Contact the supplier if instructions are needed.
	Can be placed in a well-ventilated area
	Do not discharge into any location where its accumulation could be hazardous.
	Check that the emission levels imposed by local regulations or operating permits are not exceede
	For further recommendations on gas disposal methods, refer to the EIGA code of practice Doc 3
	"Disposal of gases", downloadable from http://www.eiga.eu.
	Return the uneaten product to the supplier in its original container
List of hazardous waste	16 05 04: Gases in pressure vessels (including halons) containing substances
12.2. Funth on information	Dangerous.
13.2. Further information	The treatment and disperal of waste by third parties must be in accordance with lass
	The treatment and disposal of waste by third parties must be in accordance with loca and/or national legislation.
SECTION 14: Transport information	
14.1. <u>UN number</u> UN number	: 1072
	: 1072
14.2. <u>UN proper shipping name</u> Transport by road/rail (ADR/RID <u>)</u>	OXYGEN Tablet
Air transport (ICAO-TI / IATA-DGR)	Oxygen, compressed
Transport by sea (IMDG)	OXYGEN, COMPRESSED
	Oxfgen, COMPRESSED
14.3. Transport hazard class(es)	
Labeling	
	2.2: Non-flammable, non-toxic gases.
	5.1: Oxidizing materials.
Transport by road/rail (ADR/RID)	
Class	:2
Classification code	: 10
Danger no.	: 25
Restriction of passage in tunnels	: E - Passage prohibited in category E tunnels.
Transport by sea (IMDG)	
Class or division / Subsidiary risk(s)	: 2.2 (5.1)
<b>14.4.</b> <u>Packing group</u> Transport by road/rail (ADR/RID)	· Not applicable
	: Not applicable
Air transport (ICAO-TI / IATA-DGR)	: Not applicable
Transport by sea (IMDG)	: Not applicable
14.5. Environmental hazards	
Transport by road/rail (ADR/RID)	: None).
Air transport (ICAO-TI / IATA-DGR)	: None).
Transport by sea (IMDG)	: None).
14.6. Special precautions to be taken by the user	
Packaging instruction(s)	
Transport by road/rail (ADR/RID)	: P203
Air transport (ICAO-TI / IATA-DGR)	
Passenger and cargo aircraft	: 200
	: 200
Cargo plane only	
Cargo plane only Transport by sea (IMDG)	P200
	P200 Avoid transport in vehicles where the load compartment is not separated from the driver's cab.
Transport by sea (IMDG)	

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