




heated			
2.2 Label elements			
Labelling in accordance with Regulation 1272/2008 (CLP) and its amendments at the date of the issue of the document			
Hazard pictogram(s):			
Signal word		Danger	
Hazard statement(s):	H270 H280	May cause or intensify fire; oxidiser Contains gas under pressure; may explode if heated	
Precautionary statement(s):	P370+376 P244 P220 P410+403 P411	In case of fire: Stop leak if safe to do so. Keep valves and fittings free from oil and grease. Keep away from clothes and other combustible materials. Protect from sunlight. Store in well-ventilated place. Keep at a temperatures not exceeding 50 °C.	
2.3 Other hazards - Not known			
PBT or vPvB criteria.		The substance is not assessed as persistent, bioaccumulative or toxic (PBT) or very persistent and very bioaccumulative (vPvT).	
Endocrine disrupting properties		Data lacking	
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS			
▣ V7 3.1 Substances			
Index №	Name	Content, % (v/v)	SCL, M – factor/ATE
008-001-00-8	Oxygen	min 98.5	- ▣
SECTION 4: FIRST- AID MEASURES			
4.1 Description of first aid measures			
- general notes	Speed is essential. If unconscious, place casualty in a recovery position with head sideways to avoid choking.		
- following inhalation:	Immediately move the casualty to fresh air if adverse effects occur (e.g. headache, dizziness, respiratory tract irritation, drowsiness, poor coordination, nausea, fever, trouble the soul, fainting). If not breathing apply artificial respiration. If breathing is difficult qualified person to apply oxygen Seek medical advice immediately▣.		
- following skin contact:	No adverse effects expected.		
- following eye contact:	No adverse effects expected.		
- following ingestion:	Not considered a potential route of exposure.		
-self-protection of the first aider	The first aider must observe and apply all collective and personal protective equipment.		

4.2 Most important symptoms and effects, both acute and delayed	
Nausea, dizziness, difficulty breathing and convulsions may occur due to prolonged inhalation of concentrations above 75%.	
4.3 Indication of any immediate medical attention and special treatment needed	
The doctor should be informed that the victim suffers from hyperoxia. Apply symptomatically treatment.	
SECTION 5: FIRE - FIGHTING MEASURES	
5.1 Extinguishing media	
Suitable extinguishing media:	Use appropriate extinguishing media for surrounding fire. Cool tanks and bottles with water from a protected area because exposure to fire tanks may rupture/explode
Unsuitable extinguishing media :	Not applicable
5.2 Special hazards arising from the substance or mixture	
Strong oxidiser, reacts violently with combustible and reducing agents, risk of fire and explosion. Especially dangerous contact with hydrocarbons.	
5.3 Advice for firefighters	
Heat resistant personnel protective equipment, gloves, boots and self-contained breathing apparatus.	
SECTION 6: ACCIDENTAL RELEASE MEASURES	
6.1 Personal precautions, protective equipment and emergency procedures	
6.1.1 For non-emergency personal	
Protective equipment: Wear suitable personal protective equipment (listed in Section 8 on the safety data sheet)	
Emergency procedures: All activities should be carried out by well-trained staff. Do not allow untrained and unprotected personnel in the area or personnel not involved in the elimination of an incident and its consequences. Eliminate all possible sources of fire and provide adequate ventilation. Stop the leakage if possible. Isolate every leaking bottle. Prevent entry into sewers, basements, and other areas where accumulation may be hazardous. Stay upwind. Act in accordance with emergency plan	
6.1.2 For emergency responders	
Especially resistant to high temperature clothing, gloves, boots, self-contained breathing apparatus.	
6.2 Environmental precautions	
Try to stop leaking without risk. Inform local authority if some environmental compartment have been contaminated.	
6.3 Methods and material for containment and cleaning up	
Provide adequate ventilation.	
6.4 Reference to other sections	
See Section 8 for personal protective equipment and Section 13 for waste disposal.	
SECTION 7: HANDLING AND STORAGE	
7.1 Precautions for safe handling	
7.1.1 Protective measures:	Only experienced and properly instructed persons should handle gases under pressure. Store containers according to national legislation. Keep equipment clean of grease and oil. Use only approved for oxygen lubricants and seals. Use only properly specified equipment which is suitable for this product, its supply

	<p>temperature and pressure. Comply with the residual pressure requirement of 0.05MPa. Suck back of water into the container must be prevented.. Protect cylinders from damage. Use a suitable handcart or trucks to move the bottles - no drag, no roll, no skating, do not knock the bottles. Never lift cylinders without safety caps - cap is intended solely to protect the valve. Never put objects inside the cap (e.g. wrench, screwdriver and others) - this can damage the valve and can cause gas leaking. Open valve slowly to avoid pressure shock. The valve of the container is closed after each use and after emptying the bottle, even if it is connected to the appliance. Do not transfer gas from one bottle to another. If the valve opens harder, stop work and call their supplier. Keep labels. When working provide the still gripping the bottle to a stationary object or cart.</p> <p>Do not use a fire or electric heater to increase the pressure in the containers.</p>
<p>7.1.2 Advice on general occupation hygiene:</p>	<p>Work under a high standard of personal hygiene. Do not eat, drink or smoke in work areas. Wash hands after handling with the product. Remove clothing and protective equipment before visiting the catering.</p>
<p>7.2 Conditions for safe storage, including any incompatibilities Oxygen cylinders shall not be stored in one room with other pressure equipment for explosive, extremely flammable, highly flammable or flammable fluids. Store: - away from sources of ignition and heat; - separate from flammable gases and other combustible materials in the store; - in a well ventilated place at a temperature not exceeding 50 °C . Keep away from direct sunlight. Full and empty containers should be stored separately and should be well secured. Full bottles with support are stored in the warehouses in the vertical position. To prevent falls, the bottles are placed in specially prepared cages, or enclosed with barrier. Empty bottles without support can be stored horizontally on wooden frames or racks. Outdoor, bottles with support can be stacked one above the other into regular geometric shapes up to 1.5 m high, placing wooden boards, ropes, or rubber between the horizontal rows. With such an arrangement, the valves of the cylinders are directed in one direction and measures are taken to prevent the uncontrolled movement of the cylinders. Bottles without trays must be stored horizontally, on wooden frames or shelves up to 1.5 m high or in pallets. Gas cylinders should be at least 1 m away from heating radiators. Doors and windows of the oxygen storage should be opened outwards. The floors of the warehouses should be flat, with no slippery surfaces and material to exclude the possibility of sparks being struck. The distance between bottles and heat sources intended to heat indoor storage must be at least 1 meter. Display "No smoking and no light fire " in the areas of storage and usage of oxygen. Do not transport compressed gas cylinders in a confined space (e.g. luggage-carrier of a car).</p>	
<p>▣ V7 7.3 Specific end use(s): no information ▣</p>	
<p>SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION</p>	
<p>8.1 Control parameters</p>	
<p>Regulated occupational exposure limit values:</p>	<p>No official data available</p>
<p>8.2 Exposure controls</p>	
<p>8.2.1 Appropriate engineering controls:</p>	
<p>Appropriate engineering controls:</p>	<p>Provide adequate ventilation is good industrial practice. Avoid oxygen saturation (> 21 %). Pressure systems should be periodically inspected</p>

	for leaks.
8.2.2 Individual protection measures, such as personal protective equipment	
Depending on the risk and on the work performed, adequate protective equipment should be selected and approved by a specialist Please follow the supplier's instructions about conditions of use and expiration date.	
Respiratory protection:	Provide ventilation in areas where there is danger of oxygen saturation
Hand protection:	Protective gloves (EN 388)
Eye protection:	Chemical goggles (EN 166)
Skin and body protection:	Working clothes and boots
■ V7 Thermal hazard:	No precautionary measures are necessary. ■
8.2.3 Environmental exposure controls:	The product does not affect the environment.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES	
9.1 Information on basic physical and chemical properties	
a) Physical state	Gas (at 20°C and 101,3 kPa)
b) Colour	Colourless
c) Odour	Odourless
d) Melting/Freezing point	- 218,4 °C
e) Boiling point	- 182,9 °C
f) Flammability	Non flammable
g) Lower and upper exposure limit	Not applicable
h) Flash-point	Not applicable
i) Auto-ignition temperature	Not applicable
j) Decomposition temperature	Not known
k) pH	Not applicable
l) Viscosity	Not applicable
m) Solubility	Slightly
n) Partition coefficient n-octanol/water:	Not applicable
o) Vapour pressure:	Not applicable
p) Density and/or relative density	Not applicable
q) Relative vapour density(air = 1)	1.1
r) Particle characteristics	Not applicable
9.2 Other information	
9.2.1 Information with regard to physical hazard classe	
a) Explosives	Not explosive
b) Flammable gases	Not flammable gas
c) Oxidising gases	Oxidising gases, hazard category 1 (Oxid. Gas 1),
d) Gases under pressure	Gases under pressure: compressed gases (Press. Gas.),
9.2.2 Other safety characteristics	

Gas / vapor heavier than air. Molecular weight:32	
Critical temperature -118.6 °C, Critical pressure: 50 атм.	
SECTION 10: STABILITY AND REACTIVITY	
10.1 Reactivity	
Stable under recommended storage and handling conditions (see section 7, handling and storage).	
10.2 Chemical stability	
Stable under recommended storage and handling conditions (see section 7, handling and storage).	
10.3 Possibility of hazardous reactions	
Supports combustion.	
10.4 Conditions to avoid	
High temperatures and limited or confined spaces where gas may be accumulated.	
10.5 Incompatible materials	
Oils, grease, fats and combustible materials	
10.6 Hazardous decomposition products	
None	
SECTION 11: TOXICOLOGICAL INFORMATION	
11.1 Information on hazard classes as defined in Regulation (EC) №1272/2008	
Not known toxicological effects from this product	
Acute toxicity	Based on available data, the classification criteria are not met
Skin corrosion/irritation	Based on available data, the classification criteria are not met
Serious eye damage/irritation	Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met
Mutagenicity	Based on available data, the classification criteria are not met
Carcinogenicity	Based on available data, the classification criteria are not met
Reproductive toxicity	Based on available data, the classification criteria are not met
STOT - single exposure	Based on available data, the classification criteria are not met
STOT - repeated exposure	Based on available data, the classification criteria are not met
Aspiration hazard	Based on available data, the classification criteria are not met
11.2 Information on other hazards	
11.2.1 Endocrine disrupting properties - data lacking	
■ V7 11.2.2 Other information - data lacking ■	
SECTION 12: ECOLOGICAL INFORMATION	
12.1 Toxicity	not toxic and does not pollute the soil and aquatic environment.
12.2 Persistence and degradability	No ecological damages caused by this product

12.2 Bioaccumulative potential	The product does not show any bioaccumulation properties.
12.4 Mobility in soil	Unlikely to cause pollution due to its high volatility
12.5 Results of PBT and vPvB assessment	No data available
12.6 Endocrine disrupting properties	Data lacking
12.7 Other adverse effects	No known effects from this product
■ V7 12.8 Additional information -	Data lacking
SECTION 13: DISPOSAL CONSIDERATIONS	
Waste treatment methods:	Discharge only in a well-ventilated place. Do not discharge into any place where its accumulation could be dangerous. Avoid discharge of large quantities into the atmosphere.
Package waste disposal:	Bring back the bottle to the supplier, as comply with the residual pressure of 0.05 MPa.
SECTION 14: TRANSPORT INFORMATION	
14.1 UN No. ADR/RID	- 1072
14.2 UN proper shipping name - ADR/RID	- OXYGEN, COMPRESSED
14.3 Transport hazard class(es)	- 2
14.4 Packing group: ADR/RID - not applicable	
Labelling ADR/RID	  <p>2.2: Non flammable, non toxic gas + 5.1 Oxidising substances , (+13RID)</p>
ADR/RID Hazard identification number:	- 25
ADR/RID Classification code:	- 10
14.5 Environmental hazards	- none
14.6 Special precautions for users	The person transporting the product must be trained and know how to respond to an accident.
■ V7 14.7 Maritime transport in bulk according to IMO instruments	- not applicable

SECTION 15: REGULATORY INFORMATION	
15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture:	
EU regulations	Regulation EC 1907/2006 (REACH), Regulation EC 1272/2008 (CLP), Directive 2012/18/EU (Seveso III), Quantity 1) 200 t; Quantity 2) - 2000 t * <u>Regulations / legislation and amendments to the date of issue of the document are indicated</u>
15.2 Chemical Safety Assessment	Does not required for this product.
16. OTHER INFORMATION	
<p>Indication of changes: Changes of the last version are highlighted with ■ V7...■ . This version replaces all previous versions.</p>	
<p>The information above is on the basis of our knowledge about the product and represents the data currently available to us t the moment of safety data sheet issue. This document is intended as guidance for the appropriate precautionary handling with the product by a properly trained person using this product, and does not legally bind in no way manufacturer with guarantee for specific properties, qualities and applications. Neochim PLC does not grant, guarantee or implies any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Neochim PLC does not carry any liability for damages resulting from the product use or reliance upon this information, data and recommendations for it. Users are responsible to make their own investigations to determine the suitability of the information and the product for their particular purposes, and to comply with applicable laws.</p>	