

**Safety Data Sheet**

according to UK REACH Regulation

**Sauerstoff**

Revision date: 22.11.2022

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Sauerstoff

CFH No. 52504, 52505, 52508

Substance name: oxygen  
CAS No: 7782-44-7  
Index No: 008-001-00-8  
EC No: 231-956-9  
UFI: 7TDP-V41C-R00R-84NC

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Fuel

**1.3. Details of the supplier of the safety data sheet**

Company name: CFH Löt- und Gasgeräte GmbH  
Street: Bahnhofstraße 50  
Place: D-74254 Offenau  
Telephone: +49 (0)7136 9594 0  
e-mail: Info@cfh-gmbh.de  
Contact person: Torsten Bogesch  
e-mail: Info@cfh-gmbh.de  
Internet: www.cfh-gmbh.de

Telefax: +49 (0)7136 9594 44

**1.4. Emergency telephone number:** +49(0) 551 - 1 92 40 (GIZ-Nord, 24h)**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Ox. Gas 1; H270  
Compressed gas; H280

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****GB CLP Regulation****Signal word:** Danger**Pictograms:****Hazard statements**

H270 May cause or intensify fire; oxidiser.  
H280 Contains gas under pressure; may explode if heated.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

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P220	smoking.
P244	Keep away from clothing and other combustible materials.
P370+P376	Keep valves and fittings free from oil and grease.
P410+P403	In case of fire: Stop leak if safe to do so. Protect from sunlight. Store in a well-ventilated place.

#### 2.3. Other hazards

No information available.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

##### Hazardous components

CAS No	Chemical name	Quantity
	EC No	
	Index No	
	REACH No	
	Classification (GB CLP Regulation)	
7782-44-7	oxygen	100 %
	231-956-9	
	008-001-00-8	
	Ox. Gas 1, Compressed gas; H270 H280	

Full text of H and EUH statements: see section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### After inhalation

Provide fresh air.

##### After contact with skin

No information available.

##### After contact with eyes

Rinse immediately carefully and thoroughly with eye-bath or water.

##### After ingestion

Rinse mouth immediately and drink 1 glass of water.

#### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

 Co-ordinate fire-fighting measures to the fire surroundings.  
Extinguishing powder, Water spray jet, Carbon dioxide (CO<sub>2</sub>), alcohol resistant foam

#### 5.2. Special hazards arising from the substance or mixture

No information available.

#### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

#### Additional information

Use water spray jet to protect personnel and to cool endangered containers.

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#### SECTION 6: Accidental release measures

##### 6.1. Personal precautions, protective equipment and emergency procedures

###### General advice

Remove all sources of ignition.

##### 6.2. Environmental precautions

No special environmental measures are necessary.

##### 6.3. Methods and material for containment and cleaning up

###### Other information

Provide adequate ventilation.

##### 6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

#### SECTION 7: Handling and storage

##### 7.1. Precautions for safe handling

###### Advice on safe handling

Handle with care - avoid bumps, friction and impact.

###### Advice on protection against fire and explosion

Take action to prevent static discharges.

Keep away from sources of ignition - No smoking.

###### Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff.

##### 7.2. Conditions for safe storage, including any incompatibilities

###### Requirements for storage rooms and vessels

Keep container tightly closed.

###### Hints on joint storage

Do not store together with: Pyrophoric or self-heating substances

##### 7.3. Specific end use(s)

Fuel

#### SECTION 8: Exposure controls/personal protection

##### 8.1. Control parameters

###### Additional advice on limit values

To date, no national critical limit values exist.

##### 8.2. Exposure controls

###### Individual protection measures, such as personal protective equipment

###### Eye/face protection

Wear eye/face protection.

###### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

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#### Skin protection

Use of protective clothing.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	gaseous	
Colour:	colourless	
Odour:	odourless	
Melting point/freezing point:	-219 °C	
Boiling point or initial boiling point and boiling range:	-183 °C	
Flammability:	not applicable	
	not determined	
Lower explosion limits:	not determined	
Upper explosion limits:	not determined	
Flash point:	not applicable	
Decomposition temperature:	not determined	
pH-Value:	not determined	
Water solubility:	39 g/L	
Solubility in other solvents	not determined	
Partition coefficient n-octanol/water:	not determined	
Vapour pressure:	not determined	
Density (at 20 °C):	0,00143 g/cm <sup>3</sup>	
Relative vapour density:	not determined	

### 9.2. Other information

#### Information with regard to physical hazard classes

##### Explosive properties

Risk of explosion if heated under confinement.

##### Self-ignition temperature

Solid:

not applicable

Gas:

not determined

##### Oxidizing properties

The product is not: oxidising.

#### Other safety characteristics

Evaporation rate:

not determined

Solid content:

not determined

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Reducing agent

Combustible substance

Base

Hydrocarbons

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**10.4. Conditions to avoid**

Handle with care - avoid bumps, friction and impact. Explosive. Remove all sources of ignition. Keep away from: Heat. Ignition.

**10.5. Incompatible materials**

No information available.

**10.6. Hazardous decomposition products**

No known hazardous decomposition products.

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in GB CLP Regulation****Acute toxicity**

Based on available data, the classification criteria are not met.

**Irritation and corrosivity**

Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

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****Endocrine disrupting properties**

Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information****12.1. Toxicity**

The product is not: Ecotoxic.

**12.2. Persistence and degradability**

The product has not been tested.

**12.3. Bioaccumulative potential**

The product has not been tested.

**12.4. Mobility in soil**

The product has not been tested.

**12.5. Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of UK REACH.

The product has not been tested.

**12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects**

No information available.

**Further information**

Avoid release to the environment.

**SECTION 13: Disposal considerations**

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#### 13.1. Waste treatment methods

##### Disposal recommendations



Dispose of waste according to applicable legislation.

##### Contaminated packaging



Wash with plenty of water. Completely emptied packages can be recycled.

### SECTION 14: Transport information



#### Land transport (ADR/RID)

<b>14.1. UN number or ID number:</b>	UN 1072
<b>14.2. UN proper shipping name:</b>	OXYGEN, COMPRESSED
<b>14.3. Transport hazard class(es):</b>	2
<b>14.4. Packing group:</b>	-
Hazard label:	2.2+5.1
	 
Classification code:	10
Special Provisions:	355 655 662
Limited quantity:	0
Excepted quantity:	E0
Transport category:	3
Hazard No:	25
Tunnel restriction code:	E

#### Inland waterways transport (ADN)

<b>14.1. UN number or ID number:</b>	UN 1072
<b>14.2. UN proper shipping name:</b>	OXYGEN, COMPRESSED
<b>14.3. Transport hazard class(es):</b>	2
<b>14.4. Packing group:</b>	-
Hazard label:	2.2+5.1
	 
Classification code:	10
Special Provisions:	355 655 662
Limited quantity:	0
Excepted quantity:	E0

#### Marine transport (IMDG)

<b>14.1. UN number or ID number:</b>	UN 1072
<b>14.2. UN proper shipping name:</b>	OXYGEN, COMPRESSED
<b>14.3. Transport hazard class(es):</b>	2.2
<b>14.4. Packing group:</b>	-
Hazard label:	2.2+5.1
	 
Special Provisions:	355
Limited quantity:	0
Excepted quantity:	E0
EmS:	F-C, S-W

#### Air transport (ICAO-TI/IATA-DGR)

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<b>14.1. UN number or ID number:</b>	UN 1072
<b>14.2. UN proper shipping name:</b>	OXYGEN, COMPRESSED
<b>14.3. Transport hazard class(es):</b>	2.2
<b>14.4. Packing group:</b>	-
Hazard label:	2.2+5.1



Special Provisions:	A175 A302
Limited quantity Passenger:	Forbidden
Passenger LQ:	Forbidden
Excepted quantity:	E0
IATA-packing instructions - Passenger:	200
IATA-max. quantity - Passenger:	75 kg
IATA-packing instructions - Cargo:	200
IATA-max. quantity - Cargo:	150 kg

#### 14.6. Special precautions for user

Warning: Oxidising substances.

#### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU regulatory information

Information according to 2012/18/EU (SEVESO III): 25 Oxygen (7782-44-7)

##### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): - - non-hazardous to water

#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

### SECTION 16: Other information

#### Changes

This data sheet contains changes from the previous version in section(s): 1,2,11.

#### Abbreviations and acronyms

CLP: Classification, labelling and Packaging  
 REACH: Registration, Evaluation and Authorization of Chemicals  
 GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
 UN: United Nations  
 CAS: Chemical Abstracts Service  
 DNEL: Derived No Effect Level  
 DMEL: Derived Minimal Effect Level  
 PNEC: Predicted No Effect Concentration  
 ATE: Acute toxicity estimate  
 LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%  
 LL50: Lethal loading, 50%  
 EL50: Effect loading, 50%

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EC50: Effective Concentration 50%  
ErC50: Effective Concentration 50%, growth rate  
NOEC: No Observed Effect Concentration  
BCF: Bio-concentration factor  
PBT: persistent, bioaccumulative, toxic  
vPvB: very persistent, very bioaccumulative  
ADR: Accord européen sur le transport des marchandises dangereuses par Route  
(European Agreement concerning the International Carriage of Dangerous Goods by Road)  
RID: Regulations concerning the international carriage of dangerous goods by rail  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
intérieures)  
IMDG: International Maritime Code for Dangerous Goods  
EmS: Emergency Schedules  
MFAG: Medical First Aid Guide  
IATA: International Air Transport Association  
ICAO: International Civil Aviation Organization  
MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
IBC: Intermediate Bulk Container  
SVHC: Substance of Very High Concern  
For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

**Relevant H and EUH statements (number and full text)**

H270 May cause or intensify fire; oxidiser.  
H280 Contains gas under pressure; may explode if heated.

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.