

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.10.2017

Revision: 18.10.2017

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

1.1 Product identifier

Trade name: 35741 Disposable steel oxygen cylinder

CAS Number:

7782-44-7

EC number:

231-956-9

Index number:

008-001-00-8

1.2 Relevant identified uses of the substance or mixture and uses advised against:

No further relevant information available.

Application of the substance / the preparation: Not available.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

ROTHENBERGER Industrial GmbH

Sodener Strasse 47

65779 Kelkheim/Germany

Tel. +49 (0) 61 95/ 99 81 – 0

Fax +49 (0) 61 95/ 99 81 – 7910

Email: info-diy@rothenberger.com

Further information obtainable from: ROTHENBERGER Industrial GmbH

1.4 Emergency telephone number:

Giftinformationszentrum-Nord / GIZ-Nord Poisons Centre

Telefon / Phone +49 (0) 551/19240

24h / 7d

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008:



GHS03 flame over circle

Ox. Gas 1 H270 May cause or intensify fire; oxidiser.



GHS04 gas cylinder

Press. Gas (Comp.) H280 Contains gas under pressure; may explode if heated.

2.2 Label elements:

Labelling according to Regulation (EC) No 1272/2008:

The substance is classified and labelled according to the CLP regulation.

(Contd. on page 2)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.10.2017

Revision: 18.10.2017

Trade name: 35741 Disposable steel oxygen cylinder

(Contd. of page 1)

Hazard pictograms:



GHS03 GHS04

Signal word: Danger

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 label before use.

P220 Keep away from clothing and other combustible materials.

P244 Keep valves and fittings free from oil and grease.

P370+P376 In case of fire: Stop leak if safe to do so.

P410+P403 Protect from sunlight. Store in a well-ventilated place.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards:

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

3.1 Chemical characterisation: Substances

CAS No. Description

7782-44-7 oxygen

Identification number(s):

EC number: 231-956-9

Index number: 008-001-00-8

Dangerous components:

CAS: 7782-44-7 oxygen

50-100%

EINECS: 231-956-9 Ox. Gas 1, H270; Press. Gas (Comp.), H280

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures:

General information:

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

Keep warm, position comfortably and cover well.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: In cases of frost bites, rinse with plenty of water. Do not remove clothing.

After eye contact: Rinse opened eye for several minutes under running water.

(Contd. on page 3)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.10.2017

Revision: 18.10.2017

Trade name: 35741 Disposable steel oxygen cylinder

(Contd. of page 2)

After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed: Frost bites

4.3 Indication of any immediate medical attention and special treatment needed:

Treat frost-bitten areas appropriately.

SECTION 5: Firefighting measures

5.1 Extinguishing media:

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture: No further relevant information available.

5.3 Advice for firefighters:

Protective equipment:

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

Additional information: Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Keep away from ignition sources.

6.2 Environmental precautions: Prevent seepage into sewage system, workpits and cellars.

6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Allow to evaporate.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Open and handle receptacle with care.

Use only in well ventilated areas.

Keep away from heat and direct sunlight.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Substance/product can reduce the ignition temperature of flammable substances.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

Emergency cooling must be available in case of nearby fire.

Potentially explosive when mixed with organic substances.

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.10.2017

Revision: 18.10.2017

Trade name: 35741 Disposable steel oxygen cylinder

(Contd. of page 3)

7.2 Conditions for safe storage, including any incompatibilities:

Storage:

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Store only in the original receptacle.

Observe official regulations on storing packagings with pressurised containers.

Information about storage in one common storage facility:

Store away from flammable substances.

Store away from foodstuffs.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

Store receptacle in a well ventilated area.

7.3 Specific end use(s): No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters:

Ingredients with limit values that require monitoring at the workplace: Not required.

8.2 Exposure controls:

Personal protective equipment:

General protective and hygienic measures:

Wash hands before breaks and at the end of work.

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Do not eat or drink while working.

Respiratory protection: Not necessary if room is well-ventilated.

Protection of hands: Heat resistant gloves

Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Tightly sealed goggles

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

General Information:

Appearance:

Form:

Compressed liquefied gas

Colour:

Colourless

Odour:

Recognisable

Odour threshold:

Not determined.

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.10.2017

Revision: 18.10.2017

Trade name: 35741 Disposable steel oxygen cylinder

(Contd. of page 4)

pH-value:	Not determined.
Change in condition:	
Melting point/freezing point:	-219 °C
Initial boiling point and boiling range:	-183 °C
Flash point:	Not applicable.
Flammability (solid, gas):	Not determined.
Ignition temperature:	
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard. Explosive when mixed with combustible material.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density:	Not determined.
Relative density:	Not determined.
Vapour density:	Not determined.
Evaporation rate:	Not applicable.
Solubility in / Miscibility with water at 20 °C:	39 g/l
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
9.2 Other information:	No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity: No further relevant information available.

10.2 Chemical stability:

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions:

Reacts with fats and oils.

Reacts with flammable substances.

Reacts with fabric soaked in the product (e.g. cleaning wool).

Acts as an oxidising agent on organic materials such as wood, paper and fats.

Danger of receptacles bursting because of high vapour pressure when heated.

Reacts with reducing agents.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.10.2017

Revision: 18.10.2017

Trade name: 35741 Disposable steel oxygen cylinder

(Contd. of page 5)

10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

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

Primary irritant effect:

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.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):

Germ cell 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.

SECTION 12: Ecological information

12.1 Toxicity:

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability: No further relevant information available.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

Additional ecological information:

General notes: Generally not hazardous for water

12.5 Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

European waste catalogue:

Dispose of contents/container in accordance with local/regional/national/international regulations.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN-Number:

ADR, IMDG, IATA

UN1072

14.2 UN proper shipping name:

ADR

IMDG, IATA

1072 OXYGEN, COMPRESSED
OXYGEN, COMPRESSED

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.10.2017

Revision: 18.10.2017

Trade name: 35741 Disposable steel oxygen cylinder

(Contd. of page 6)

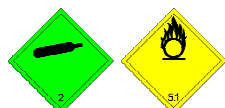
14.3 Transport hazard class(es):

ADR



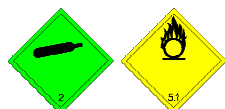
Class: 2 10 Gases.
Label: 2.2+5.1

IMDG



Class: 2 Gases.
Label: 2.2/5.1

IATA



Class: 2 Gases.
Label: 2.2 (5.1)

14.4 Packing group:

ADR, IMDG, IATA Void

14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user: Warning: Gases.

Danger code (Kemler): 25

EMS Number: F-C,S-W

Stowage Category: A

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code: Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ): 0
Transport category: 3
Tunnel restriction code: E
UN "Model Regulation": UN 1072 OXYGEN, COMPRESSED, 2.2 (5.1)

SECTION 15: Regulatory information

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

Directive 2012/18/EU

Qualifying quantity (tonnes) for the application of lower-tier requirements: 50 t

Qualifying quantity (tonnes) for the application of upper-tier requirements: 200 t

(Contd. on page 8)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 18.10.2017

Revision: 18.10.2017

Trade name: 35741 Disposable steel oxygen cylinder

(Contd. of page 7)

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases:

H270 May cause or intensify fire; oxidiser.

H280 Contains gas under pressure; may explode if heated.

Training hints:

Employees who use the product have to be trained on risks for health, hygiene, use of individual protection, accident preventive actions, rescue actions, etc.,

Department issuing SDS:

ADEEGO GmbH

Wildsteig 4A

D-42113 Wuppertal

Tel. +49 (0) 202 2575700

Fax. +49 (0) 202 2575701

Email: mail@adeego.de

www.adeego.de

Contact: Dr. Axel Deeg

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Ox. Gas 1: Oxidizing gases – Category 1

Press. Gas (Comp.): Gases under pressure – Compressed gas