

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

Printing date 30.08.2013

Revision: 30.08.2013

1 Identification of the substance/mixture and of the company/undertaking**Product identifier****Trade name:** 35188; 35635; 35189 Oxygen tank, steel**CAS Number:**

7782-44-7

EC number:

231-956-9

Index number:

008-001-00-8

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

No further relevant information available.

Application of the substance / the preparation: Oxygen tank, steel**Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

ROTHENBERGER Werkzeuge GmbH

Industriestraße 7

D-65779 Kelkheim / Germany

Phone: +49 (0) 61 95 / 800 - 0

Fax: +49 (0) 6195 / 800 - 3500

Email: info@rothenberger.com

Further information obtainable from: ROTHENBERGER Werkzeuge GmbH**Emergency telephone number:**

Giftinformationszentrum-Nord / GLZ-Nord Poisons Centre

Telefon / Phone +49 (0) 551/19240

24h / 7d

2 Hazards identification**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 H280 Contains gas under pressure; may explode if heated.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:

O; Oxidising

R8: Contact with combustible material may cause fire.

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

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

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

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/Store away from clothing/combustible materials.

P244 Keep reduction valves free from grease and oil.

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

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

P403 Store in a well-ventilated place.

Other hazards:**Results of PBT and vPvB assessment:****PBT:** Not applicable.**vPvB:** Not applicable.

3 Composition/information on ingredients

Chemical characterization: Substances**CAS No. Description**

7782-44-7 oxygen

Identification number(s):**EC number:** 231-956-9**Index number:** 008-001-00-8**Dangerous components:** Void**Additional information:** For the wording of the listed risk phrases refer to section 16.

4 First aid measures

Description of first aid measures:**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:**

Generally the product does not irritate the skin.

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.**After swallowing:** If symptoms persist consult doctor.

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Information for doctor:**Most important symptoms and effects, both acute and delayed:**

No further relevant information available.

Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5 Firefighting measures

Extinguishing media:**Suitable extinguishing agents:**CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**For safety reasons unsuitable extinguishing agents:** Water with full jet**Special hazards arising from the substance or mixture:** No further relevant information available.**Advice for firefighters:****Protective equipment:** Do not inhale explosion gases or combustion gases.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources.

Environmental precautions: Prevent seepage into sewage system, workpits and cellars.**Methods and material for containment and cleaning up:** Ensure adequate ventilation.**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.

7 Handling and storage

Handling:**Precautions for safe handling:**

Open and handle receptacle with care.

Use only in well ventilated areas.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Pressurized 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.

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 pressurized containers.

Information about storage in one common storage facility: Store away from flammable substances.

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

8 Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.**Control parameters:****Ingredients with limit values that require monitoring at the workplace:** Not required.**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.

Protection of hands: Leather 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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

9 Physical and chemical properties

Information on basic physical and chemical properties:**General Information:****Appearance:****Form:** Compressed liquefied gas**Colour:** Colourless**Odour:** Recognizable**Odour threshold:** Not determined.**pH-value:** Not determined.**Change in condition:****Melting point/Melting range:** -219 °C**Boiling point/Boiling range:** -183 °C**Flash point:** Not applicable.**Flammability (solid, gaseous):** Not determined.**Ignition temperature:****Decomposition temperature:** Not determined.

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Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density at 20 °C:	0.00143 g/cm ³
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.
Other information:	No further relevant information available.

10 Stability and reactivity

Reactivity:
Chemical stability:
Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
Possibility of hazardous reactions:
Forms explosive gas mixture with air.
Reacts with fats and oils.
Reacts with reducing agents.
Conditions to avoid: No further relevant information available.
Incompatible materials: No further relevant information available.
Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

Information on toxicological effects:
Acute toxicity:
Primary irritant effect:
on the skin: Irritant to skin and mucous membranes.
on the eye: Irritating effect.
Sensitization: No sensitizing effects known.

12 Ecological information

Toxicity:
Aquatic toxicity: No further relevant information available.
Persistence and degradability: No further relevant information available.

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Behaviour in environmental systems:

Bioaccumulative potential: No further relevant information available.

Mobility in soil: No further relevant information available.

Additional ecological information:

General notes: Generally not hazardous for water

Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects: No further relevant information available.

13 Disposal considerations

Waste treatment methods:

Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14 Transport information

UN-Number:

ADR, IMDG, IATA

UN1072

UN proper shipping name:

ADR

1072 OXYGEN, COMPRESSED

IMDG, IATA

OXYGEN, COMPRESSED

Transport hazard class(es):

ADR



Class:

2.2 10

Label:

2.2

IMDG, IATA



Class:

2.2

Label:

2.2

Packing group:

ADR, IMDG, IATA

Void

Environmental hazards:

Marine pollutant:

No

Special precautions for user:

Not applicable.

Danger code (Kemler):

25

EMS Number:

F-C,S-W

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**Transport in bulk according to Annex II of
MARPOL73/78 and the IBC Code** Not applicable.**Transport/Additional information:****ADR**

Limited quantities (LQ):	0
Transport category:	3
Tunnel restriction code:	E
UN "Model Regulation":	UN1072, OXYGEN, COMPRESSED, 2.2 (5.1)

15 Regulatory information**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**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.

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 Harmonized 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)
VOC: Volatile Organic Compounds (USA, EU)