

Safety Data Sheet

according to 91/155/EC

Oxygen Bottle 110 bar

Reviewed on: 05.05.2002

Art. No.: 3.5741

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING

Trade name: OxygenBottleI 10bar

Company: ROTHENBERGERWERKZEUGEGMBH

INDUSTRIESTR7 65779KELKHEIM TEL::06195/8001

Chemical formula: 0₂

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Preparation: SUBSTANCE

Components/Impurities: Contains no other components or impurities which will influence the

 ${\it CLASSIFICATIONOFTHE PRODUCT}.$

CAS No.: 0778244-7

EEC No. (from EINECS): 2319569

3. HAZARDS INDENTIFICATION

Hazards identification: COMPRESSEDGAS.

OXIDANT.

STRONGL'SUPPORTSCOMBUSTION.

MAY REACTVIOLENTLYWITHCOMBUSTIBLEMATERIALS.

4. FIRST - AID MEASURES

Inhalation: Continuous inhalation of concentrations higher than 75% may cause

NAUSEA, DIZZINESS, RESPIRATORYDIFFICULYAND CONVULSION. REMOVE VICTIM TO UNCONTAMINATEDAREA. KEEP VICTIM WARM AND RESTED. CALLA DOCTOR APPLY

ARTIFICIALRESPIRATION FBREATHINGSTOPPED.

5. FIRE - FIGHTING MEASURES

Specific hazards: Supports Combustion. Exposure to Firemay cause containers to

RUPTURE/EXPLODE.NONFLAMMABLE.

Hazardous combustion products: NONE

Suitable extinguishing media: Allknownextinguishantscanbe used.

Specific methods: IFPOSSIBLE.STOPFLOWOFPRODUCT.MOVECONTAINERAWAYORCOOLWITH.WATER

FROMA PROTECTEDPOSITION.

Special protective equipment for fire fighters: NONE.

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6. ACCIDENTIAL RELEASE MEASURES

Personal precautions: EVACUATEAREA, ENSUREADEQUATEAIRVENTILATION ELIMINATEIGNITION SOURCES.

Environmental precautions: Trytostoprelease.Prevenifromenteringsewers,basementsand

WORKPITS, ORANY PLACEWHEREITS ACCUMULATION CAN BE DANGEROUS.

Clean up methods: VENTILATEAREA

7. HANDLING AND STORAGE

Handling and storage: USENOOILORGREASE.OPENVALVESLOWLYTOAVOIDPRESSURESHOCK.

SEGREGATEFROMFLAMMABLEGASESANDOTHEFFLAMMABLEMATERIALSINSTORE.
SUCKBACKOFWATERINTOTHECONTAINERMUSTBE PREVENTED.DO NOTALLOW
BACKFEEDINTOTHECONTAINERUSEONLYPROPERLISPECIFIEDEQUIPMENTWHICH IS

SUITABLEFORTHISPRODUCT,ITSSUPPLYPRESSUREANDTEMPERATURECONTACT

YOURGASSUPPLIERFIN DOUBT.KEEPAWAYFROMIGNITIONSOURCES(INCLUDING STATICDISCHARGES).REFERTOSUPPLIERSCONTAINERHANDLINGINSTRUCTIONS.KEEP

CONTAINERBELOW50°C IN A WELLVENTILATEDPLACE.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protection: Do notsmokewhilehandlingproduct. Wearsuitablehand, body and

HEADPROTECTION. WEARGOGGLESWITHS UITABLEFILITER ENSES WHEN USE IS CUTTING WELDING A VOIDOXY GENRICH (> 21%) ATMOSPHERES. ENSURE

ADEQUATEVENTILATION.

9. PHYSICAL AND CHEMICAL PROPERTIES

Molecular weight: 32 **Melting point:** -219°C **Boiling point:** - 183°C **Critical temperature:** - 118°C Relative density, gas: 1.1(AIR=1) Vapour pressure 20°C: **NOTAPPLICABLE** Solubility mg/lwater: 39MG/L Appearance/Colour: COLOUR ESSGAS

Odour: Noodourwarningproperties

Autoignition temperature:NOTAPPLICABLEFlammability range:OXIDISER

Other data: Gas/vapour-leavierthanair. May accumulaten confined spaces,

PARTICULARL'ATORBELOWGROUNDLEVEL.

10. STABILITY AND REACTIVITY

Stability and reactivity:

May reactiviolently with combustible materials. May reactiviolently with

REDUCINGAGENTS. VIOLENTLYOXIDISESORGANICMATERIALS.

11. TOXICOLOGICAL INFORMATION

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General: NOTOXICOLOGICALEFFECTS*ROMTHISPRODUCT.

12. ECOLOGICAL INFORMATION

General: NO ECOLOGICADAMAGE CAUSED BY THIS PRODUCT.

13. DISPOSAL CONSIDERATIONS

General: TO ATMOSPHEREIN A WELLVENTILATEDPLACE. DO NOTDISCHARGEINTO ANY PLACE WHEREITS ACCUMULATION COULDBE DANGEROUS. DISPOSAI of waste gas cartridges and aerosols must be disposed of in compliance with the current national and local legislation.

In England and Wales, this is primarily The Hazardous Waste Regulations 2005 and in Scotland, The Special Waste Regulations 2005.

The implications of this legislation may require you to register your premises as a producer of hazardous waste and consign this waste in compliance with the above regulations. All waste from commercial activities is controlled waste and therefore, unless used by private individuals for no commercial gain, these articles must be disposed of as such.

The List of Wastes (England) Regulations provides the European Waste Codes (EWC) for these as: 16 05 04* gases in pressure containers (including halons) containing dangerous substances

14. TRANSPORT INFORMATION

ADR/RID: CLASS2CODE 10 IMDG: CLASS2.2 IATA: CLASS2.2

UN number and proper shipping name: UN 1072SAUERSTOFFVERDICHTET UN 10720xygen,compressed

Packing instruction:

Labelling according to ADR/RID: LABEL2.2: NONFLAMMABLE, NONTOXICGASES LABEL5.1: OXIDIZING SUBSTANCES

ADR/RID Hazard No.: 25 **CEFIC Tramcard No.:** 842

Other transport information:

AVOIDTRANSPORON VEHICLESWHERETHELOADSPACEIS NOTSEPARATEDFROM DRIVER'SCOMPARTMENT. ENSUREVEHICLEDRIVERS AWAREOFTHEPOTENTIAL HAZARDSOFTHELOADAND KNOWSWHATTODO IN THEEVENTOFAN ACCIDENTOR AN EMERGENCY.

BEFORETRANSPORTINGPRODUCTCONTAINERSENSURETHATTHEYAREFIRMLYSECUREDAND:

- CYLINDERVALVEIS CLOSEDAND NOTLEAKING.
- VALVEOUTLETCAP NUTORPLUG(WHEREPROVIDED) IS CORRECTLYTITED.
- VALVEPROTECTIONDEVICE(WHEREPROVIDED) IS CORRECTLYTITED.
- THEREIS ADEQUATEVENTILATION
- **COMPLIANCEWITHAPPLICABLEREGULATIONS**

15. **REGULATORY INFORMATION**

Number in Annex I of Dir. 67/548: 008001008

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EC Classification:

Labelling of cylinders:
Symbols:

O: OXIDISING

Risk phrases:

R8: CONTACTWITH COMBUSTIBLEMATERIAMAY CAUSEFIRE.

Safety phrases:

S17: KEEPAWAY FROM COMBUSTIBLEMATERIAL

16. OTHER INFORMATION

ENSUREALINATIONAL/LOCAREGULATIONSAREOBSERVED. ENSUREOPERATORS UNDERSTANDTHEHAZARDOFOXYGENENRICHMENT. BEFOREUSINGTHISPRODUCTIN ANY NEW PROCESSOREX PERIMENT, A THOROUGHMATERIALCOMPATIBILITYAND SAFETYSTUDYSHOULDBE CARRIEDOUT. DETAILS GIVEN IN THIS DOCUMENTARE BELIEVED TO BE CORRECTAT THETIME OF GOING TO PRESS. WHILS IPROPERCAREHAS BEEN TAKEN IN THE PREPARATION OF THIS DOCUMENT, NO LIABILITY FOR NUURORDAMAGE RESULTING FROM ITSUSE CAN BE ACCEPTED.