

**SECTION 1: Identification of the substance or mixture and of the supplier****Product identifier****Trade name:** Standard solution O2**Synonym:** 100 mg/L**Article number:** CAY442V10C01AAE**Recommended use of the chemical and restrictions on use** No further relevant information available.**Application of the substance / the mixture** Laboratory chemicals**Supplier's details****Manufacturer/Supplier:**

Endress+Hauser

Conducta GmbH+Co. KG

Dieselstraße 24

D-70839 Gerlingen

**Further information obtainable from:**

Phone: +49 (0)7156 209-10117

E-Mail: MSDS.PCC@endress.com

**Emergency phone number** +27 (0)861 555 777**SECTION 2: Hazard identification****Classification of the substance or mixture**

The product is not classified, according to the Globally Harmonised System (GHS).

**GHS label elements**

GHS label elements Void

Hazard pictograms Void

Signal word Void

Hazard statements Void

**Other hazards**

The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds or formaldehydes.

**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**\* SECTION 3: Composition or information on ingredients****Mixtures****Description:** aqueous solution**Dangerous components:** Void**Additional information:** For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First-aid measures****Description of necessary first-aid measures****General information:** No special measures required.**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:** Generally the product does not irritate the skin.**After eye contact:** Rinse opened eye for several minutes under running water.**After swallowing:** If symptoms persist consult doctor.**Most important symptoms or effects, acute and delayed** No further relevant information available.

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**Indication of immediate medical attention and special treatment needed, if necessary***No further relevant information available.*

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## SECTION 5: Fire-fighting measures

**Suitable extinguishing media****Suitable extinguishing agents:***CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.***For safety reasons unsuitable extinguishing agents:** *no further information***Specific hazards arising from the chemical** *No further relevant information available.***Special protective actions for fire fighters** *No further relevant information available.***Protective equipment:** *No special measures required.*

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## SECTION 6: Accidental release measures

**Personal precautions, protective equipment and emergency procedures** *Wear protective clothing.***Environmental precautions:** *Dilute with plenty of water.***Methods and material for containment and cleaning up:***Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).***Reference to other sections***No dangerous substances are released.**See Section 7 for information on safe handling.**See Section 8 for information on personal protection equipment.**See Section 13 for disposal information.*

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## SECTION 7: Handling and storage

**Precautions for safe handling***Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.**No special measures required.***Information about fire - and explosion protection:** *No special measures required.***Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** *No special requirements.***Information about storage in one common storage facility:** *Not required.***Further information about storage conditions:** *None.***Storage class:** *12***Specific end use(s)** *No further relevant information available.*

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## SECTION 8: Exposure controls or personal protection

**Control parameters****Ingredients with limit values that require monitoring at the workplace:***The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.***Additional information:** *The lists valid during the making were used as basis.***Exposure controls****Appropriate engineering controls** *No further data; see section 7.***Individual protection measures, such as personal protective equipment (PPE)****General protective and hygienic measures:***The usual precautionary measures are to be adhered to when handling chemicals.***Respiratory protection:** *Not required.***Hand protection** *No chemical-protective gloves required.*

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**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 or face protection** Not required.

**Body protection:** Protective work clothing

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties****General Information****Physical state**

Fluid

**Colour:**

Colourless

**Odour:**

Odourless

**Odour threshold:**

Not determined.

**Melting point/freezing point:**

Undetermined.

**نقطة الغليان أو نقطة الغليان الأولية ونطاق الغليان**

100 °C

**Flammability**

Not applicable.

**Upper or lower flammability or explosive limits****Lower:**

Not determined.

**Upper:**

Not determined.

**Flash point:**

Not applicable.

**Decomposition temperature:**

Not determined.

**pH at 20 °C**

3-5

**Viscosity:****Viscosity**

Not determined.

**Dynamic:**

Not determined.

**Solubility****water:**

Fully miscible.

**Partition coefficient: n-octanol or water**

Not determined.

**Vapour pressure at 20 °C:**

23 hPa

**Vapour density + Relative density****Density at 20 °C:**1.001 g/cm<sup>3</sup>**Relative density**

Not determined.

**Vapour density**

Not determined.

**Other information****Appearance:****Form:**

Fluid

**Important information on protection of health and environment, and on safety.****Ignition temperature:**

Product is not selfigniting.

**Explosive properties:**

Product does not present an explosion hazard.  
Not determined.

**Solvent content:****Water:**

99.8 %

**Solids content:**

0.0 %

**Change in condition****Evaporation rate**

Not determined.

**Information with regard to physical hazard classes****Explosives**

Void

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|---------------------------------------------------------------------------|------|
| Flammable gases                                                           | Void |
| Aerosols                                                                  | Void |
| Oxidising gases                                                           | Void |
| Gases under pressure                                                      | Void |
| Flammable liquids                                                         | Void |
| Flammable solids                                                          | Void |
| Self-reactive substances and mixtures                                     | Void |
| Pyrophoric liquids                                                        | Void |
| Pyrophoric solids                                                         | Void |
| Self-heating substances and mixtures                                      | Void |
| Substances and mixtures, which emit flammable gases in contact with water | Void |
| Oxidising liquids                                                         | Void |
| Oxidising solids                                                          | Void |
| Organic peroxides                                                         | Void |
| Corrosive to metals                                                       | Void |
| Desensitised explosives                                                   | Void |

## SECTION 10: Stability and reactivity

**Reactivity** No further relevant information available.**Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known.**Conditions to avoid** No further relevant information available.**Incompatible materials:** No further relevant information available.**Hazardous decomposition products:** No dangerous decomposition products known.

## SECTION 11: Toxicological information

**Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity** Based on available data, the classification criteria are not met.**Skin corrosion or irritation** Based on available data, the classification criteria are not met.**Serious eye damage or irritation** Based on available data, the classification criteria are not met.**Respiratory and skin sensitization** Based on available data, the classification criteria are not met.**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.**Specific target organ toxicity – single exposure**

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

**Specific target organ toxicity – repeated exposure**

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

**Aspiration hazards** Based on available data, the classification criteria are not met.**Information on other hazards****endocrine disrupting potential**

None of the ingredients is listed.

## SECTION 12: Ecological information

**Toxicity****Aquatic toxicity:** No further relevant information available.**Persistence and degradability** No further relevant information available.**Bioaccumulative potential** No further relevant information available.**Mobility in soil** No further relevant information available.**Results of PBT and vPvB assessment****PBT:** Not applicable.

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**vPvB:** Not applicable.**Endocrine disrupting properties***The product does not contain substances with endocrine disrupting properties.***Other adverse effects****Additional ecological information:****General notes:** Not hazardous for water.**SECTION 13: Disposal considerations****Waste treatment methods****Recommendation** *Smaller quantities can be disposed of with household waste.***Uncleaned packaging:****Recommendation:** *Disposal must be made according to official regulations.***Recommended cleansing agents:** *Water, if necessary together with cleansing agents.***SECTION 14: Transport information****UN number**

ADN, IMDG, IATA

Void

**UN proper shipping name**

ADR, ADN, IMDG, IATA

Void

**Transport hazard class(es)**

ADR, ADN, IMDG, IATA

**Class**

Void

**Packing group**

ADR, IMDG, IATA

Void

**Environmental hazards:****Marine pollutant:**

No

**Special precautions for user**

Not applicable.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.

**Transport/Additional information:**

Not dangerous according to the above specifications.

**UN "Model Regulation":**

Void

**SECTION 15: Regulatory information****Safety, health and environmental regulations specific for the product in question****GHS label elements** Void**Hazard pictograms** Void**Signal word** Void**Hazard statements** Void**Directive 2012/18/EU****Named dangerous substances - ANNEX I** *None of the ingredients is listed.***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.***Department issuing SDS:** PCC-TWR**Contact:** MSDS.pcc@endress.com**Abbreviations and acronyms:***RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)**IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)**ICAO: International Civil Aviation Organisation*

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*ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)**ADR: Accord relatif au transport international 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**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***\* Data compared to the previous version altered.**

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