



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (Reach)

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## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifiers

Product name : Hydrogen peroxide 20 volume

Product Number : PRD5316  
Brand : Better Equipped

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

Identified uses : Laboratory chemicals, Manufacture of substances

### 1.3 Details of the supplier of the safety data sheet

Company : Better Equipped,  
Wrenbury Business Park,  
Wrenbury Road,  
Wrenbury,  
Nantwich, Cheshire,  
CW5 8EB, UK  
Telephone +44 (0) 800 9707142  
Fax +44 (0) 800 066 4443  
E-mail address [sales@betterequipped.co.uk](mailto:sales@betterequipped.co.uk)

### 1.4 Emergency telephone number

Emergency Phone # : +44 (0) 1270 781236

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## 2. HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]**

Eye irritation (Category 2)

**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

Irritating to eyes.

### 2.2 Label elements

**Labelling according Regulation (EC) No 1272/2008 [CLP]**

|  |  |
|--|--|
| Pictogram  |  |
| Signal word                                      | Warning  |
| Hazard statement(s)<br>H319                      | Causes serious eye irritation.   |
| Precautionary statement(s)<br>P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| Supplemental Hazard Statements                   | none   |

**According to European Directive 67/548/EEC as amended.**

Hazard symbol(s)



R-phrases(s)  
R36

Irritating to eyes.

S-phrases(s)  
S26

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

### 2.3 Other hazards - none

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## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Synonyms : solution in H<sub>2</sub>O

Formula : H<sub>2</sub>O<sub>2</sub>

Molecular Weight : 38.01 g/mol

| Component                | Classification | Concentration  |
|--------------------------|----------------|--|
| <b>Hydrogen peroxide</b> |                |  |
| CAS-No.                  | 7722-84-1      | 5 - 8 %  |
| EC-No.                   | 231-765-0      |  |
| Index-No.                | 008-003-00-9   |  |
|                          |                | Ox. Liq. 1; Acute Tox. 4; Skin Corr. 1A; H271, H302 + H332, H314 |
|                          |                | O, C, R 5 - R 8 - R20/22 - R35                                   |

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

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## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

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

no data available

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## 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Nature of decomposition products not known.

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

- 5.4 Further information**  
Use water spray to cool unopened containers.

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**6. ACCIDENTAL RELEASE MEASURES**

- 6.1 Personal precautions, protective equipment and emergency procedures**  
Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
- 6.2 Environmental precautions**  
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up**  
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).
- 6.4 Reference to other sections**  
For disposal see section 13.

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**7. HANDLING AND STORAGE**

- 7.1 Precautions for safe handling**  
Avoid inhalation of vapour or mist.  
Keep away from sources of ignition - No smoking.
- 7.2 Conditions for safe storage, including any incompatibilities**  
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.  
  
Recommended storage temperature: -20 °C  
  
Light sensitive.
- 7.3 Specific end use(s)**  
no data available

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**Components with workplace control parameters**

| Component         | CAS-No.   | Value | Control parameters             | Basis                                    |
|-------------------|-----------|-------|--------------------------------|--|
| Hydrogen peroxide | 7722-84-1 | TWA   | 1 ppm<br>1.4 mg/m <sup>3</sup> | UK. EH40 WEL - Workplace Exposure Limits |
|                   |           | STEL  | 2 ppm<br>2.8 mg/m <sup>3</sup> | UK. EH40 WEL - Workplace Exposure Limits |

**8.2 Exposure controls**

**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment**

**Eye/face protection**

Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|   |   |
|---|---|
| a) Appearance                                   | Form: clear, liquid<br>Colour: colourless |
| b) Odour  | no data available                         |
| c) Odour Threshold                              | no data available                         |
| d) pH   | no data available                         |
| e) Melting point/freezing point                 | no data available                         |
| f) Initial boiling point and boiling range      | no data available                         |
| g) Flash point                                  | no data available                         |
| h) Evaporation rate                             | no data available                         |
| i) Flammability (solid, gas)                    | no data available                         |
| j) Upper/lower flammability or explosive limits | no data available                         |
| k) Vapour pressure                              | 31.1 hPa at 30 °C                         |
| l) Vapour density                               | no data available                         |
| m) Relative density                             | 1.000 g/cm <sup>3</sup>                   |
| n) Water solubility                             | no data available                         |
| o) Partition coefficient: n-octanol/water       | no data available                         |
| p) Auto-ignition temperature                    | no data available                         |
| q) Decomposition temperature                    | no data available                         |
| r) Viscosity                                    | no data available                         |
| s) Explosive properties                         | no data available                         |
| t) Oxidizing properties                         | no data available                         |

### 9.2 Other safety information

no data available

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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

no data available

- 10.3 Possibility of hazardous reactions**  
no data available
- 10.4 Conditions to avoid**  
no data available
- 10.5 Incompatible materials**  
Zinc, Powdered metals, Iron, Copper, Nickel, Brass, Iron and iron salts.
- 10.6 Hazardous decomposition products**  
Other decomposition products - no data available

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**11. TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Acute toxicity**  
no data available

**Skin corrosion/irritation**  
no data available

**Serious eye damage/eye irritation**  
no data available

**Respiratory or skin sensitization**  
no data available

**Germ cell mutagenicity**  
no data available

**Carcinogenicity**

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Hydrogen peroxide)

**Reproductive toxicity**  
no data available

**Specific target organ toxicity - single exposure**  
no data available

**Specific target organ toxicity - repeated exposure**  
no data available

**Aspiration hazard**  
no data available

**Potential health effects**

**Inhalation**

May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

**Ingestion**

May be harmful if swallowed. Causes burns.

**Skin**

May be harmful if absorbed through skin. Causes skin burns.

**Eyes**

Causes eye burns.

**Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

**Additional Information**

RTECS: Not available

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**12. ECOLOGICAL INFORMATION**

**12.1 Toxicity**  
no data available

**12.2 Persistence and degradability**  
no data available



|        |   |
|--------|---|
| R20/22 | Harmful by inhalation and if swallowed. |
| O      | Oxidising                               |
| R35    | Causes severe burns.                    |

**Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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