

## Section 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Product name:** MC7 Renewable Energy System BIOCIDE

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

**Use of substance / mixture:** Water treatment biocide

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

**Company name:** ADEY Innovation Limited,  
 Head Office,  
 Gloucester Road,  
 Cheltenham,  
 Gloucestershire,  
 GL51 8NR,  
 United Kingdom.

**Tel:** +44 (0)1242 546700

**Fax:** +44 (0)1242 546777

**Email:** info@adey.com

### 1.4. Emergency telephone number

**Emergency tel:** +44 (0)1242 546700 (8:30 –5pm)  
 +44 (0)7909 967607 (outside office hours)

## Section 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification (EC 1272/2008):** Not applicable  
 This product is not classified according to the CLP regulation.

### 2.2. Label elements

**Label elements:** This product has no label elements.

### 2.3. Other hazards

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

### 3.2. Mixtures

Dangerous Components		
CAS: 7722-84-1 EINECS: 231-765-0	Hydrogen peroxide solution Ox. Liq. 1, H271; Skin Corr. 1A, H314; Acute Tox. 4, H302; Acute Tox. 4, H332	3.0%
CAS: 7761-88-8 EINECS: 231-853-9	Ox. Sol. 2, H272; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	0.002%

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

## Section 4: First aid measures

### 4.1. Description of first aid measures

**General information:** No special measures required.

**Inhalation:** Supply fresh air; consult doctor in case of complaints.

**Ingestion:** Do not induce vomiting. Rinse out mouth and then drink plenty of water. Call for a doctor immediately.

**Skin contact:** Take off immediately all contaminated clothing.

**Eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

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

Nausea.

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

No further relevant information available.

### Section 5: Fire-fighting measures

#### 5.1. Extinguishing media

**Extinguishing media:** Use fire extinguishing methods suitable to surrounding conditions.

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

No further relevant information available.

#### 5.3. Advice for fire-fighters

**Protective equipment:** No special measure required.

### Section 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions:** Not required.

#### 6.2. Environmental precautions

**Environmental precautions:** Dilute with plenty of water. Do not allow to enter sewers/surface or ground water.

#### 6.3. Methods and material for containment and cleaning up

**Clean-up procedures:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

#### 6.4. Reference to other sections

**Reference to other sections:** No dangerous substances are released.

### Section 7: Handling and storage

#### 7.1. Precautions for safe handling

**Handling requirements:** Keep away from heat and direct sunlight. Do not refill residue into storage receptacles.

**Information about fire – and explosion protection:** Keep ignition sources away – Do not smoke.

#### 7.2. Conditions for safe storage, including any incompatibilities

**Requirements to be met by storerooms and receptacles:** Store in a cool locations (0°-35°C). Do not use light alloy receptacles. To avoid product degradation and equipment corrosion, do not use iron, copper or aluminium containers or equipment.

**Information about storage in one common facility:** Store away from flammable substances. Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.

**Further information about storage:** Store in a cool place.

The product, if stored properly, is stable for 6 months. Store under lock and key and out of the reach of children.

Storage class: 12

### 7.3. Specific end use(s)

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

## Section 8: Exposure controls/personal protection

### 8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace:	
7722-84-1 hydrogen peroxide solution	
WEL	Short-term value: 2.8 mg/m <sup>3</sup> , 2 ppm Long-term value: 1.4 mg/m <sup>3</sup> , 1 ppm

**Additional information:** The lists valid during the making were used as a basis.

### 8.2. Exposure controls

**General measures:** Keep away from foodstuffs, beverages and feed.  
**Respiratory protection:** Not required.  
**Hand protection:** Not required.  
**Eye protection:** Safety glasses.  
**Skin protection:** Protective clothing.

## Section 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

**Appearance:** Liquid  
**Colour:** Colourless-pale blue  
**Odour:** Odourless  
**pH value at 20%:** 5.0  
**Change in condition:**  
**Melting point/Melting range:** -3°C  
**Boiling point/Boiling range:** 100°C  
**Flash point:** > 100°C  
**Flammability (solid, gaseous):** Product is not flammable  
**Self-igniting:** Product is not self-igniting  
**Danger of explosion:** Product does not present an explosion hazard  
**Vapour pressure at 20%:** 23 hPa  
**Density at 20%:** 1.03 g/cm<sup>3</sup>  
**Solubility in water:** Fully Miscible

### 9.2. Other information

**Other information:** No further relevant information available.

## Section 10: Stability and reactivity

### 10.1. Reactivity

### 10.2. Chemical stability

**Chemical stability:** No decomposition if used according to specifications.

### 10.3. Possibility of hazardous reactions

**Hazardous reactions:** Corrosive action on metals.

### 10.4. Conditions to avoid

**Conditions to avoid:** No further relevant information available.

## 10.5. Incompatible materials

Alkali  
Inflammable substances  
Metals

## 10.6. Hazardous decomposition products

No dangerous decomposition products known.

## Section 11: Toxicological information

### Acute toxicity

#### 11.1. Information on toxicological effects

##### Primary irritant effect:

**Skin contact:** No irritant effect.

**Eye contact:** No irritating effect.

**Sensitisation:** No sensitising effects known.

## Section 12: Ecological information

### 12.1. Toxicity

No further relevant information available.

### 12.2. Persistence and degradability

Biodegradable.

### 12.3. Bioaccumulative potential

No further relevant information available.

### 12.4. Mobility in soil

No further relevant information available.

### 12.5. Additional ecological information:

Water hazard class 1 (German regulation) (Self-assessment): slightly hazardous for water.

No not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### 12.5. Results of PBT and vPvB assessment

**PBT identification:** This product is not identified as a PBT/vPvB substance.

### 12.6. Other adverse effects

None known.

## Section 13: Disposal considerations

### 13.1. Waste treatment methods

**Recommendation:** Must not be disposed together with household waste. Product is an oxidising agent which could feasibly react with household waste if empty container is in household waste.

European waste catalogue	
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 09 00	Oxidising substances
16 09 03	Peroxides, for example, hydrogen peroxide

## Section 14: Transport information

**Transport class:** This product does not require a classification for transport.

## Section 15: Regulatory information

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

**EU legislation:** Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

### 15.2. Chemical Safety Assessment

**Chemical safety assessment:** A chemical safety assessment has not been carried out.

## Section 16: Other information

### Other information

**Other information:** This safety data sheet is prepared in accordance with Commission Regulation (EC) No 1272/2008.

**Phrases used in s.2:** H271 May cause fire or explosion; strong oxidiser.  
H272 May intensify fire; oxidiser.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H332 Harmful if inhaled.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.

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