

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

### 1.1. Product identifier

**Product name:** MC2 Central Heating System SILENCER

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

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

### 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

Substances

Dangerous components		
2809-21-4	1 – Hydroxyethylidenediphosphonic Acid	<5%
	Met. Corr. 1, H290; Eye Dam. 1, H318; Acute Tox. 4, H302	

The listed risk phrases are displayed in 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:** 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.

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

No further relevant information.

## 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:** Water, carbon dioxide, foam.

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

No further relevant information available.

### 5.3. Advice for fire-fighters

**Advice for fire-fighters:** Wear self-contained breathing apparatus.

## Section 6: Accidental release measures

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

**Personal precautions:** Refer to section 8 of SDS for personal protection details. Keep unprotected persons away.

### 6.2. Environmental precautions

**Environmental precautions:** Do not allow product to reach sewage system or any water course.

### 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

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## Section 7: Handling and storage

### 7.1. Precautions for safe handling

**Handling requirements:** No special measures required.

**Information about fire – and explosion protection:** No special measures required.

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

**Requirements to be met by storerooms and receptacles:** Store in a cool location (0°C -35°C)  
Store only in the original receptacle.

**Information about storage in one common facility:** Not required.

**Further information about storage:** This product is stable for 24 months, if stored at room temperature.  
Storage class: 12

### 7.3. Specific end use(s)

**Specific end use(s):** No data available.

## Section 8: Exposure controls/personal protection

### 8.1. 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.

### 8.2. Exposure controls

**General measures:** The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:** Not required.

**Hand protection:** Protective gloves.

**Eye protection:** Safety glasses.

**Skin protection:** Protective clothing.

## Section 9: Physical and chemical properties

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

**State:** Liquid

**Colour:** Colourless

**Odour:** Characteristic

**pH value:** 10

**Change in condition**

**Boiling point/Boiling range:** 100°C

**Flash point:** Not applicable.

**Flammability (solid, gaseous):** Not applicable.

**Ignition temperature**

**Decomposition temperature:** Not determined.

**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%:** 1.04 g/cm<sup>3</sup>

**Solubility in water:** Fully miscible.

**Partition coefficient**

**(n-octanol/water):** Not determined.

### 9.2. Other information

**Other information:** No data 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:** No hazardous reactions known.

## 10.4. Conditions to avoid

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

## 10.5. Incompatible materials

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

## 10.6. Hazardous decomposition products

No dangerous decomposition products known.

## Section 11: Toxicological information

### Acute toxicity:

LD/LC50 values relevant for classification		
ORAL	LD50	>10000 mg/kg (rat)
DERMAL	LD50	>10000 mg/kg (rabbit)

## 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

**Ecotoxicity:** Not regarded as dangerous for the environment. However this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

## 12.1. Toxicity

Aquatic toxicity	
2809-21-4 1-Hydroxyethylidenediphosphonic Acid	
EC 50/48h	527 mg/l (daphnia)
EC50/96h	7.2 mg/l (algae)
LC50/96h	868 mg/l (Iepomis macrochirus)
	368 mg/l (Oncorhynchus mykiss)

## 12.2. Persistence and degradability

**Persistence and degradability:** No data available.

## 12.3. Bioaccumulative potential

**Bioaccumulative potential:** No data available.

#### 12.4. Mobility in soil

**Mobility:** No data available.

#### 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

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

### Section 13: Disposal considerations

#### 13.1. Waste treatment methods

**Recommendation:** Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.

European waste catalogue	
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 03 00	Off-specification batches and unused products
16 03 06	Organic wastes other than those mentioned in 16 03 05

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

### 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:** H290: May be corrosive to metals.  
 H302: Harmful if swallowed.  
 H318: Causes serious eye damage.

**Legal disclaimer:** © ADEY Innovation Limited 2018. All rights reserved. You may use and make a reasonable number of copies of this document for your own internal business purposes only but not otherwise.

The commission of any unauthorised act in relation to this document may result in civil or criminal actions being taken against you. We have taken reasonable steps to ensure that, to the best of our knowledge and belief, the information in this document is correct at the time of publication, but please be aware that it may over time become incorrect or out of date. Any hazards detailed herein may not be exclusive and others may exist. The Supplier excludes and disclaims, to the fullest extent allowed by law, any and all liability for the accuracy and/or completeness of the information contained herein and does not assume any such liability. It is the responsibility of the reader/user to assess the suitability of the product referred to for their purposes and to deal with the safe handling, transportation, use, storage and disposal of the same.