MC5®

SAFETY DATA SHEET
MC5 Central Heating System Cleaner

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

1.1. Product identifier

Product name: MC5 RapidFlush System CLEANER

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

Use of substance / mixture: Heating system cleaning chemical

1.3. Details of the supplier of the safety data sheet

Company name: ADEY Innovation Limited,
Head Office,
Gloucester Road,
Cheltenham,
Gloucstershire,
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 under CLP: This product has no classification under CLP.

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

3.1. Mixtures

Hazardous ingredients:
1-METHOXY-2-PROpanol

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>PBT / WEL</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>203-539-1</td>
<td>107-98-2</td>
<td>-</td>
<td>Flammable Liqu. 3: H226; STOT SE 3: H336</td>
<td>1-10%</td>
</tr>
</tbody>
</table>

1,2,3-BENZOTRIAZOLE

<table>
<thead>
<tr>
<th>EINECS</th>
<th>CAS</th>
<th>PBT / WEL</th>
<th>CLP Classification</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>202-394-1</td>
<td>95-14-7</td>
<td>-</td>
<td>Acute Tox. 4: H302; Eye Irrit. 2: H319; Acute Tox. 4: H332</td>
<td>1-10%</td>
</tr>
</tbody>
</table>
Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water
Eye contact: If eye irritation occurs or persists seek medical advice.
Ingestion: Wash out mouth with water.
Inhalation: Not required under normal conditions of use. Move to fresh air.

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

Skin contact: There may be mild irritation at the site of contact.
Eye contact: There may be irritation and redness.
Ingestion: There may be irritation of the throat.
Inhalation: No symptoms.

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

Immediate/special treatment: Not applicable.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Not applicable.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

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.

6.2. Environmental precautions

Environmental precautions: Avoid release into the environment.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Wash the spillage site with large amounts of water.

6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area.
7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.
Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:
1-METHOXY-2-PROPANOL

<table>
<thead>
<tr>
<th>Workplace exposure limits</th>
<th>Respirable dust</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>8 hour TWA</td>
</tr>
<tr>
<td>UK</td>
<td>375 mg/m³</td>
</tr>
</tbody>
</table>

DNEL/PNEC Values

DNEL / PNEC: No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.
Respiratory protection: Respiratory protection not required.
Hand protection: Protective gloves.
Eye protection: Safety goggles.
Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>Clear/Brown</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic odour</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Miscible</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point/range°C</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability limits %: lower</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point°C</td>
<td>No data available</td>
</tr>
<tr>
<td>Autoignition temperature°C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.16 g/cm³</td>
</tr>
<tr>
<td>VOC g/l</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point/range°C</td>
<td>No data available</td>
</tr>
<tr>
<td>Part.coef. n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>6.5</td>
</tr>
</tbody>
</table>

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity
10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Haz. Decomp. products: No data available.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:
1-METHOXY-2-PROPANOL

<table>
<thead>
<tr>
<th></th>
<th>IVN</th>
<th>RAT</th>
<th>LD50</th>
<th>4200</th>
<th>mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ORL</td>
<td>MUS</td>
<td>LD50</td>
<td>11700</td>
<td>mg/kg</td>
</tr>
<tr>
<td></td>
<td>ORL</td>
<td>RAT</td>
<td>LDLO</td>
<td>3739</td>
<td>mg/kg</td>
</tr>
</tbody>
</table>

1,2,3-BENZOTRIAZOLE

<table>
<thead>
<tr>
<th></th>
<th>DERMAL</th>
<th>RAT</th>
<th>LD50</th>
<th>&gt;1000</th>
<th>mg/kg</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ORAL</td>
<td>MUS</td>
<td>LD50</td>
<td>615</td>
<td>mg/kg</td>
</tr>
<tr>
<td></td>
<td>ORAL</td>
<td>RAT</td>
<td>LD50</td>
<td>560</td>
<td>mg/kg</td>
</tr>
</tbody>
</table>

Toxicity values: No data available.

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.
Eye contact: There may be irritation and redness.
Ingestion: There may be irritation of the throat.
Inhalation: No symptoms.

Section 12: Ecological information

12.1. Toxicity

Hazardous ingredients:
1,2,3-BENZOTRIAZOLE

<table>
<thead>
<tr>
<th>EC/ LC</th>
<th>Species</th>
<th>Value</th>
<th>mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>48H EC50</td>
<td>Daphnia magna</td>
<td>91</td>
<td></td>
</tr>
<tr>
<td>96H LC50</td>
<td>FISH</td>
<td>39</td>
<td></td>
</tr>
</tbody>
</table>
12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

Mobility: Readily absorbed into soil.

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: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Deposit into or on to land (e.g. landfill, etc.)

Disposal of packaging: Disposal should be in accordance with applicable regional, national and local laws and regulations.

NB: The user’s attention is drawn to the possible existence of regional or national regulations regarding disposal.

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


15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

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

Phrases used in s.2 and s.3:
- H226: Flammable liquid and vapour.
- H302: Harmful if swallowed.
- H319: Causes serious eye irritation.
- H332: Harmful if inhaled.
- H336: May cause drowsiness or dizziness.
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