## MATERIAL SAFETY DATA SHEET
According to 1907/2006/EC (REACH) and 1272/2008/EC (CLP/GHS)

<table>
<thead>
<tr>
<th>Trade name: Cleaner / HM5 Reagent Pack</th>
</tr>
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<tbody>
<tr>
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</tbody>
</table>

### 1. Identification of the substance / preparation and company

**Product code:** D512

**Product type / recommended uses**

Detergent containing microfiltered solution for regular cleaning, rinsing and washing of hematology analyzers’ capillaries, tubings and chambers, removing blood component precipitates and lipoprotein deposits.

**Manufacturer / Supplier identification:**

<table>
<thead>
<tr>
<th>Responsible for SDS:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diatron MI Plc</td>
</tr>
<tr>
<td>Phone: + 36 1 436-9800</td>
</tr>
<tr>
<td>Fax: + 36 1 436-9809</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Health Toxicological Information Service (ETTSZ H-1096 Budapest, Nagyvárad tér 2.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone: +36 1 476-6464 or +36 80 201-199 or</td>
</tr>
<tr>
<td>Health Toxicological Information Service in the country of user</td>
</tr>
</tbody>
</table>

### 2. Hazards identification

#### 2.1 Classification of the Substance or Mixture

This product is not considered hazardous under OSHA, EU or WHMIS criteria.

- **OSHA** – Not applicable
- **EU** – Not applicable
- **WHMIS** – Exempt

**Classification according to Regulation (EC) No 1272/2008 (CLP/GHS):**

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

This substance is not classified as dangerous according to Directive 67/548/EEC.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC:**

- **Human health hazards:** Danger symbol not required.
- **Safety hazards:** Danger symbol not required.
- **Environmental hazards:** Danger symbol not required.

#### 2.2 Label Elements

Labelling according to Regulation (EC) No 1272/2008:

- The product is classified and labelled according to the CLP/GHS Regulation.

#### 2.3 Other hazards – none

### 3. Composition / information on ingredients

No components need to be disclosed according to the applicable regulations.
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
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact
Flush eyes with water as a precaution.

If swallowed
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

5. Fire hazard / fire-fighting measures

5.1 Fire hazard
Non combustible.

5.2 Suitable extinguishing media
Coordinate fire-fighting measures to the fire surroundings.

5.3 Unsuitable extinguishing media
Not known.

5.4 Hazardous decomposition products
Not known.

5.5 Special protective equipment
According to the existing fire-fighting regulations.

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. Use good laboratory practice.
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6.2 Spills and leaks
Dispose through a sanitary sewer, or use absorbent material and dispose as non-hazardous solid waste. Disposal must comply with federal, state and local requirements.

6.3 Environmental precautions
Contain spill to prevent contamination of surrounding areas.

6.4 Reference to other sections
For disposal see section 13.

7. Handling and storage

7.1 Handling
Keep general measures applied for normal operations with chemicals and for working in laboratory.
Avoid contact with skin and eyes.

Information about protection against explosions and fires
No special requirements.

Technical measures
None determined.

7.2 Storage
Requirements to be met by storerooms and containers
No special requirements.

Information about storage in one common storage facility
Not required.

Storage conditions
Keep in closed, original container.
Protect from freeze and direct sunshine.

Incompatible materials
Not determined.

Packaging materials
Not determined.

7.3 Specific application
See product sheet.

8. Exposure controls / personal protection

8.1 Engineering control measure
Use general room ventilation.

8.2 Exposure limits
OSHA – None established
ACGIH – None established
DFG MAK – None established
### 8.3 Personal protection
(Protective equipment should be qualified by an organisation with adequate licence.)

<table>
<thead>
<tr>
<th>Category</th>
<th>Protection requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory protection</td>
<td>Not required.</td>
</tr>
<tr>
<td>Hand protection</td>
<td>Use of protective gloves is recommended.</td>
</tr>
<tr>
<td>Eye protection</td>
<td>Safety glasses recommended during refilling.</td>
</tr>
<tr>
<td>Skin protection</td>
<td>Protective clothing, general (lab. coat).</td>
</tr>
<tr>
<td>Other special</td>
<td>-</td>
</tr>
</tbody>
</table>

### 8.4 General protective measures / hygiene
Avoid prolonged contact with skin and eye, swallowing the product.
Ensure washing facilities (warm water) after working hours and before breaks. Wash thoroughly hands after using the product.

### 9. Physical and chemical properties

**Appearance:**
- Physical state: liquid
- Colour: colourless
- Odour: odourless

**Change in physical state:**
- Melting point: -2 °C
- Boiling point: 102 °C

**Others:**
- pH: 8.0
- Flash point (COC): not applicable
- Ignition temperature: not applicable
- Autoignition: not applicable
- Explosive properties: not explosive
- Oxidizing properties: not oxidizing
- Vapour pressure at 20°C: 23 hPa
- Density at 20°C: 1.01 g/cm³
- Solubility in water: miscible
- Organic solvents: < 0.5 %
- Octanol/water partition coefficient: not determined
- Viscosity:
  - Dynamic: not determined
  - Kinematic: not determined
### 10. Stability and reactivity

| Stability | No decomposition if handled and stored properly. |
| Conditions to avoid | Not known. |
| Materials to avoid | Not known. No dangerous reaction. |
| Hazardous decomposition products | Not known. |

### 11. Toxicological information

**Acute toxicity**

**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: Contains no ingredients listed as potential carcinogens by ACGIH, IARC, NTP or OSHA.

**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. May cause respiratory tract irritation.
- **Ingestion**: May be harmful if swallowed.
- **Skin**: Not irritating (based on components).
- **Eyes**: Not irritating (based on components).
- **Sensitization**: Not sensitising (based on components).

**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
12. Ecological information

12.1 Toxicity
no data available

12.2 Persistence and degradability
no data available

12.3 Bioaccumulative potential
no data available

12.4 Mobility in soil
no data available

12.5 Results of PBT and vPvB assessment
no data available

12.6 Other adverse effects
no data available

13. Disposal considerations

Product disposal
Waste identification number:
EWC code: 06 03 14
Solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13.
Notes: classification of product waste is also dependent on the conditions of application.
Waste disposal must comply with federal, state and local requirements. Contact local authorities for information.
Smaller quantities can be disposed with household waste.

Packaging disposal
Containers with product residue should also be treated according to federal, state and local regulations.

14. Transport information

Transportation of this product not regulated according to the definition of hazardous in 49CFR (US DOT). Transportation of this product is also not regulated by IATA, ICAO, Canadian TDG or European ADR.

14.1 UN number
ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name
ADR/RID: Not dangerous goods
IMDG: Not dangerous goods
IATA: Not dangerous goods

14.3 Transport hazard class(es)
ADR/RID: - IMDG: - IATA: -
MATERIAL SAFETY DATA SHEET
According to 1907/2006/EC (REACH) and 1272/2008/EC (CLP/GHS)

Trade name: Cleaner / HM5 Reagent Pack

14.4 Packaging group
ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user
no data available

15. Regulatory information
US Federal and State Regulations
SARA 313 No ingredients listed.
California Proposition 65 No ingredients listed.
Massachusetts MSL No ingredients listed.
Pennsylvania RTK No ingredients listed.

EU Regulations
This safety datasheet complies with the requirements of Regulation No. 1907/2006/EC and 1272/2008/EC (CLP/GHS).

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
no data available

15.2 Chemical safety assessment
no data available

15.3 Danger symbol(s) and indication(s)
not required

15.4 Hazardous components
The label must bear the inscription: -
R-phrase: not required
S-phrase: not required
Tactile warning of danger: not required.

16. Other information
Recommended applications / restrictions: See product sheets.

Information given is based on our best knowledge and is intended to describe the product for the purposes of safety of transporting and handling only. It should not be therefore construed as guaranteeing any specific property of the product. It is the responsibility of the user to observe all current regulations and consider recommendations on the use of application of product.

Latest revision:

<table>
<thead>
<tr>
<th>Section(s)</th>
<th>Subject of change</th>
<th>Date</th>
<th>Version</th>
</tr>
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<tbody>
<tr>
<td>2, 6, 8, 11, 13, 14, 15</td>
<td>Review and upgrade</td>
<td>11.01.2016</td>
<td>4.0</td>
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