Material Safety Data Sheet
IRON HR

1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME
IRON HR

PRODUCT NO.
X-156

PRODUCT USE
TESTING WATER

SUPPLIER
PALINTEST USA
21 KENTON LANDS ROAD
ERLANGER
KENTUCKY
41018
USA
TEL 859 341 7423
TOLL FREE 800 835 9629
FAX 859 341 2106
INFO@palinestusa.com

EMERGENCY TELEPHONE
0191 491 8008 (Mon-Fri 08:45 - 16:45)

2 HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

INHALATION
Not relevant at normal room temperatures. When heated, harmful vapors may be formed.

INGESTION
Harmful if swallowed.

SKIN CONTACT
May cause sensitization by skin contact. Skin irritation is not anticipated when used normally.

EYE CONTACT
Risk of serious damage to eyes.

ROUTE OF ENTRY
Skin and/or eye contact. Ingestion.

3 COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Name</th>
<th>EC No.</th>
<th>CAS-No.</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>BORACIC ACID</td>
<td></td>
<td>10043-35-3</td>
<td>60-100%</td>
</tr>
<tr>
<td>CALCIUM THIOGLYCOLATE</td>
<td>249-881-5</td>
<td>55208-41-5</td>
<td>10-30%</td>
</tr>
</tbody>
</table>

4 FIRST-AID MEASURES

INHALATION
Unlikely route of exposure as the product does not contain volatile substances.

INGESTION
Get medical attention immediately!

SKIN CONTACT
Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.

EYE CONTACT
Immediately flush with plenty of water. Remove any contact lenses and open eyes wide apart. Call an ambulance and continue flushing during transportation to hospital taking along these instructions.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA
Use fire-extinguishing media appropriate for surrounding materials.

6 ACCIDENTAL RELEASE MEASURES
PERSONAL PRECAUTIONS
Wear protective clothing as described in Section 8 of this safety data sheet.

SPILL CLEAN UP METHODS
Collect in containers and seal securely.

7 HANDLING AND STORAGE

HANDLING
Read and follow manufacturer's recommendations.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>STD</th>
<th>TWA (8-hrs)</th>
<th>STEL (15 min)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>BORAX</td>
<td>ACGIH</td>
<td>2 mg/m³</td>
<td>6 mg/m³</td>
<td>A4</td>
</tr>
<tr>
<td>CALCIUM THIOGLYCOLATE</td>
<td>ACGIH</td>
<td>1 ppm</td>
<td></td>
<td>Sen</td>
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</table>

ACGIH = American Conference of Governmental Industrial Hygienists.
A4 = Not Classified as a Human Carcinogen
Sen = Risk of Sensitisation

PROTECTIVE EQUIPMENT

HAND PROTECTION
Use suitable protective gloves if risk of skin contact.

EYE PROTECTION
Wear approved chemical safety goggles where eye exposure is reasonably probable.

HYGIENE MEASURES
No specific hygiene procedures noted, but good personal hygiene practices are always advisable, especially when working with chemicals. Wash promptly with soap & water if skin becomes contaminated.

9 PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
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<tbody>
<tr>
<td>APPEARANCE</td>
<td>Solid</td>
</tr>
<tr>
<td>COLOR</td>
<td>Yellow</td>
</tr>
<tr>
<td>ODOR</td>
<td>Odorless</td>
</tr>
<tr>
<td>SOLUBILITY</td>
<td>Soluble in water</td>
</tr>
</tbody>
</table>

10 STABILITY AND REACTIVITY

STABILITY
Stable under normal temperature conditions and recommended use.

11 TOXICOLOGICAL INFORMATION

12 ECOLOGICAL INFORMATION

ECOTOXICITY
The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS
Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

TRANSPORT NOTES
The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
## 15 REGULATORY INFORMATION

### INVENTORIES

<table>
<thead>
<tr>
<th>Component</th>
<th>CAN</th>
<th>US</th>
<th>EU</th>
<th>AUS</th>
<th>JAP</th>
<th>KOR</th>
<th>CHN</th>
<th>PHLP</th>
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</thead>
<tbody>
<tr>
<td>Boracic Acid</td>
<td>No</td>
<td>No</td>
<td></td>
<td></td>
<td>Yes</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calcium Thioglycolate</td>
<td>DSL</td>
<td>Yes</td>
<td></td>
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<table>
<thead>
<tr>
<th>Component</th>
<th>TSCA 12(b) Export Notification</th>
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</thead>
<tbody>
<tr>
<td>Boracic Acid</td>
<td>No</td>
</tr>
<tr>
<td>Calcium Thioglycolate</td>
<td>No</td>
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### US FEDERAL REGULATIONS

<table>
<thead>
<tr>
<th>Component</th>
<th>SARA 302-TPQ</th>
<th>CERCLA-RQ</th>
<th>SARA 313</th>
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<tbody>
<tr>
<td>Boracic Acid</td>
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<td>No</td>
<td></td>
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<tr>
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<td>Not Listed</td>
<td>No</td>
<td></td>
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</tbody>
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### CLEAN AIR ACT

<table>
<thead>
<tr>
<th>Component</th>
<th>CAA Accidental Release Prevention</th>
</tr>
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<tbody>
<tr>
<td>Boracic Acid</td>
<td>Not Listed</td>
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### US STATE REGULATIONS

<table>
<thead>
<tr>
<th>Component</th>
<th>CA</th>
<th>FL</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
<th>RI</th>
</tr>
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<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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## 16 OTHER INFORMATION

**Version No.** 1
**Safety Data Sheet Status** Approved.
**Date** 8 Jan 2010
**Signature** D Ellis

**Disclaimer**
This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company’s knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user’s responsibility to satisfy himself as to the suitability of such information for his own particular use.