1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier

Product name: EHC® ISCR Amendment
Pure substance/mixture: Mixture

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

Recommended use: Bioremediation product for the remediation of contaminated soil and groundwater.
Uses advised against: Not for use in potable drinking water.

1.3 Details of the supplier of the safety data sheet

Supplier: FMC CORPORATION
Environmental Solutions
1735 Market Street
Philadelphia, PA 19103
Phone: +1 215/299-6000 (General Information)
E-Mail: msdsinfo@fmc.com

1.4 Emergency telephone number

For leak, fire, spill or accident emergencies, call:
+1 703-527-3887 (CHEMTREC)
1 303 / 595 9048 (Medical - U.S. - Call Collect)

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to EU Directives 67/548/EEC or 1999/45/EC

According to present data no classification and labelling is required according to Directives 67/548/EEC or 1999/45/EC.

2.2 Label elements
Not dangerous

2.3 Other information

CONTAINMENT HAZARD: Any vessel that contains wet EHC must be vented due to potential pressure build up from fermentation gases. Inhalation of dust in high concentration may cause irritation of respiratory system.

3. Composition/information on ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>EC-No</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>EU - DSD Classification (67/548)</th>
<th>Classification (Reg. 1272/2008)</th>
<th>REACH Registration Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Organic amendment</td>
<td>Listed</td>
<td>-</td>
<td>52-82</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Iron</td>
<td>Present</td>
<td>7439-89-6</td>
<td>18-48</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Viscosity modifier</td>
<td>Listed</td>
<td>-</td>
<td>0-5</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Occupational exposure limits, if available, are listed in section 8.

4. First aid measures

4.1 Description of first-aid measures

Eye contact: In case of contact, immediately flush skin with plenty of water. Get medical attention if irritation develops and persists.

Skin contact: Wash off with soap and water.

Inhalation: Remove person to fresh air. If signs/symptoms continue, get medical attention.

Ingestion: Rinse mouth with water and afterwards drink plenty of water or milk. Call a poison control center or doctor immediately for treatment advice.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician: Treat symptomatically.

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Dry chemical, CO₂, sand, earth, water spray or regular foam.

Extinguishing media which shall not be used for safety reasons: Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases: No information available.
5.3 Advice for firefighters

Special protective equipment for fire-fighters
As in any fire, wear self-contained breathing apparatus and full protective gear.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. For personal protection see section 8.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Sweep or vacuum up spillage and return to container. The waste may be recovered and recycled.

6.4 Reference to other sections

For disposal see section 13
For personal protection see section 8.

7. Handling and storage

7.1 Precautions for safe handling

Minimize dust generation and accumulation. Keep away from open flames, hot surfaces and sources of ignition. Refer to Section 8.

7.2 Conditions for safe storage, including any incompatibilities

Keep tightly closed in a dry and cool place. Keep away from open flames, hot surfaces and sources of ignition. Any vessel that contains wet EHC must be vented due to potential pressure build up from fermentation gases.

Materials to avoid
Oxidizing agents Strong acids

7.3 Specific end uses

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

8. Exposure controls/personal protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Exposure guidelines</th>
<th>Local nuisance dust standards apply</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Name</td>
<td>Slovakia</td>
</tr>
<tr>
<td>Iron 7439-89-6</td>
<td>TWA 6.0 mg/m³</td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Switzerland</td>
</tr>
<tr>
<td>Iron 7439-89-6</td>
<td></td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Latvia</td>
</tr>
<tr>
<td>Iron 7439-89-6</td>
<td></td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Lithuania</td>
</tr>
<tr>
<td>Iron 7439-89-6</td>
<td></td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Czech Republic</td>
</tr>
<tr>
<td>Iron 7439-89-6</td>
<td>TWA 10.0 mg/m³</td>
</tr>
<tr>
<td>Chemical Name</td>
<td>Belgium</td>
</tr>
</tbody>
</table>
8.2 Exposure controls

Engineering measures
None under normal use conditions. Provide appropriate exhaust ventilation at places where dust is formed.

Personal Protective Equipment
Respiratory protection
In case of insufficient ventilation wear suitable respiratory equipment. Local nuisance dust standards apply.

Eye/face protection
Safety glasses with side-shields

Skin and body protection
Wear suitable protective clothing.

Hand protection
Use gloves if extended exposure is anticipated

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.

Environmental exposure controls
The product should not be allowed to enter drains, water courses or the soil.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

**Appearance**
Tan brown flakes,

**Physical state**
solid

**Odor**
odorless

**Odor Threshold**
not applicable

**pH**
5.6 (as aqueous solution)

**Flash Point**
No information available.

**Melting Point/Range**
No information available.

**Freezing point**
No information available.

**Boiling Point/Range**
No information available.

**Autoignition Temperature**
No information available.

**Vapor pressure**
No information available.

**Vapor density**
No information available.

**Density**
0.80 g/mL

**Partition coefficient:**
No information available.

**Water solubility**
practically insoluble

**Viscosity**
No information available.

**Evaporation rate**
No information available.

9.2 Other information

**Bulk density**
No data available

10. Stability and reactivity

10.1 Reactivity
None under normal use conditions

10.2 Chemical stability

Stable.

10.3 Possibility of hazardous reactions
May react with water to release flammable hydrogen gas.

### 10.4 Conditions to Avoid

Heat, flames and sparks.

### 10.5 Incompatible Materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Burning produces obnoxious and toxic fumes.

### 11. Toxicological information

#### 11.1 Information on toxicological effects

**Acute Toxicity**

This product is expected to have low oral, dermal and inhalation toxicity.

- **LD50 Dermal**: No information available.
- **LD50 Oral**: Iron: 98.6 g/kg (rat)
- **LC50 Inhalation**: Iron: > 100 mg/m³ 6 hr (rat)

**Skin contact**: Expected to be non-irritating based on ingredients.

**Eye contact**: Expected to be non-irritating based on ingredients.

**Chronic Toxicity**

No known chronic effects of components present at greater than 1%

**Carcinogenicity**

Contains no ingredient listed as a carcinogen.

### 12. Ecological information

#### 12.1 Toxicity

**Ecotoxicity effects**

Contains no substances known to be hazardous to the environment or that are not degradable in waste water treatment plants

#### 12.2 Persistence and degradability

Biodegradability does not pertain to inorganic substances.

#### 12.3 Bioaccumulative potential

Does not bioaccumulate.

#### 12.4 Mobility in soil
12.5 Results of PBT and vPvB assessment
This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)

12.6 Other adverse effects
None known.

13. Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance. Dispose of in accordance with the European Directives on waste and hazardous waste.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

ADR/RID not regulated

IMDG/IMO not regulated

ICAO/IATA not regulated

Transport Symbol

15. Regulatory information

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

Directive 2008/98/EC on waste
Does not apply

Major Accidents (Directive 96/82/CEE) not applicable

CWC (Chemical Weapons Convention) - Annex on Chemicals not applicable

EU Export and import of dangerous chemicals (Regulation (EC) No 304/2003) Not applicable.

International Inventories

EINECS/ELINCS (Europe) Complies
TSCA Inventory (United States of America) Complies
DSL (Canada) Complies
ENCS (Japan) -
IECSC (China) Complies
KECL (Korea) Complies
PICCS (Philippines) Complies
AICS (Australia) Complies
NZIoC (New Zealand) Complies

15.2 Chemical Safety Report

Is not likely mobile in the environment due its low water solubility.
Chemical Safety Assessment not completed.

16. Other information

Full text of R-phrases referred to under sections 2 and 3
Not classified as dangerous.

Restrictions on use
This product's foreseen or recommended applications are: Bioremediation product for the remediation of contaminated soil and groundwater

Revision Date: 2013-04-22
Revision Note: *** Indicates updated section.

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End of Material Safety Data Sheet