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

1.1. Product identifier
Product form: Substance
Substance name: Ferrous Fumarate
EC-No.: 205-447-7
CAS-No.: 141-01-5
Formula: FeC₄H₂O₄

1.2. Relevant identified uses of the substance or mixture and uses advised against
1.2.1. Relevant identified uses
Use of the substance/mixture: Nutrient; Dietary Supplement

1.2.2. Uses advised against
No additional information available

1.3. Details of the supplier of the safety data sheet
Manufacturer: Jost Chemical Co.
8150 Lackland Rd.
63114 Saint Louis, Missouri
T 314-428-4300 - F 314-428-4366
sds@jostchemical.com - www.jostchemical.com

Distributor: JOST CHEMICAL EUROPE SPRL
rue du Bois Portal n° 30/1-3
B - 5300 Andenne - BELGIQUE
T +32 85-552655 - F +32 85-552654
info@jostchemical.com

1.4. Emergency telephone number
Emergency number: For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
United States and Canada: 1-800-424-9300 / +1 703-527-3887
Global: +1 703-741-5970

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Not classified

Adverse physicochemical, human health and environmental effects
To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
No labelling applicable

2.3. Other hazards
PBT: not yet assessed
vPvB: not yet assessed

SECTION 3: Composition/information on ingredients

3.1. Substances
Substance type: Mono-constituent

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ferrous Fumarate</td>
<td>(CAS-No.) 141-01-5</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>(EC-No.) 205-447-7</td>
<td></td>
</tr>
</tbody>
</table>

3.2. Mixtures
Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures
First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact: Immediately remove contaminated clothing or footwear. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact: Rinse eyes with water as a precaution.
First-aid measures after ingestion: Call a poison center or a doctor if you feel unwell.
Ferrous Fumarate
Safety Data Sheet
According to Regulation (EU) 2015/830 (REACH Annex II)

4.2. Most important symptoms and effects, both acute and delayed
Symptoms/effects after skin contact: May cause moderate irritation.
Symptoms/effects after eye contact: Slight irritation.

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

SECTION 5: Firefighting measures
5.1. Extinguishing media

5.2. Special hazards arising from the substance or mixture
Fire hazard: No data available.
Explosion hazard: No data available.
Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3. Advice for firefighters
Firefighting instructions: Cool down the containers exposed to heat with a water spray. Do not dispose of firefighting water in the environment.
Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Emergency procedures: Ventilate spillage area.

6.1.2. For emergency responders
Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up
For containment: Collect all waste in suitable and labelled containers and dispose according to local legislation.
Methods for cleaning up: Mechanically recover the product.
Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections
For further information refer to section 13.

SECTION 7: Handling and storage
7.1. Precautions for safe handling
Precautions for safe handling: Ensure good ventilation of the work station. Wear personal protective equipment.
Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Store in a clean, dry warehouse in the original unopened containers. Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection
8.1. Control parameters
No additional information available

8.2. Exposure controls
Appropriate engineering controls: Ensure good ventilation of the work station.

Personal protective equipment:

Materials for protective clothing:
Wear suitable protective clothing. gloves and eye/face protection
Ferrous Fumarate
Safety Data Sheet
According to Regulation (EU) 2015/830 (REACH Annex II)

9. Environmental exposure controls:
Avoid release to the environment.

9.1. Information on basic physical and chemical properties

Physical state: Solid
Appearance: reddish orange to red-brown powder.
Molecular mass: 169.9 g/mol
Colour: red. orange.
Odour: Odorless.
Odour threshold: No data available
pH: 5 - 6
pH solution: 25 g/l (20 °C)
Relative evaporation rate (butylacetate=1): No data available
Melting point: > 280 °C
Freezing point: Not applicable
Boiling point: No data available
Flash point: Not applicable
Auto-ignition temperature: Not applicable
Decomposition temperature: No data available
Flammability (solid, gas): Non flammable.
Vapour pressure: No data available
Relative vapour density at 20 °C: No data available
Relative density: Not applicable
Solubility: Partially soluble.
Log Pow: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available
Explosive properties: No data available
Oxidising properties: No data available
Explosive limits: Not applicable

9.2. Other information
No additional information available

10. Stability and reactivity

10.1. Reactivity
The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials
No additional information available

10.6. Hazardous decomposition products
Thermal decomposition generates: Iron oxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Classification</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity (oral)</td>
<td>Not classified (Lack of data)</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity (dermal)</td>
<td>Not classified (Lack of data)</td>
<td></td>
</tr>
<tr>
<td>Acute toxicity (inhalation)</td>
<td>Not classified (Lack of data)</td>
<td></td>
</tr>
<tr>
<td>Ferrous Fumarate (141-01-5)</td>
<td></td>
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</tr>
<tr>
<td>LD50 oral rat</td>
<td>3850 mg/kg (Published Data)</td>
<td></td>
</tr>
<tr>
<td>Causes serious eye damage.</td>
<td>Not classified (Based on available data, the classification criteria are not met)</td>
<td></td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified (Based on available data, the classification criteria are not met)</td>
<td>pH: 5 - 6</td>
</tr>
<tr>
<td>Respiratory or skin sensitisation</td>
<td>Not classified (Lack of data)</td>
<td></td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified (Lack of data)</td>
<td></td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified (Lack of data)</td>
<td></td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified (Lack of data)</td>
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<tr>
<td>STOT-single exposure</td>
<td>Not classified (Lack of data)</td>
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<tr>
<td>STOT-repeated exposure</td>
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<tr>
<td>Aspiration hazard</td>
<td>Not classified (Lack of data)</td>
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</tbody>
</table>

SECTION 12: Ecological information

12.1. Toxicity
Ecology - general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment
Ferrous Fumarate (141-01-5)

PBT: not yet assessed
vPvB: not yet assessed

12.6. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste treatment methods: Dispose of contents/container in accordance with licensed collector’s sorting instructions.

Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN
14.2. UN proper shipping name
Proper Shipping Name (ADR): Not regulated for transport
Proper Shipping Name (IMDG): Not regulated for transport
Proper Shipping Name (IATA): Not regulated for transport
Proper Shipping Name (ADN): Not regulated for transport
Proper Shipping Name (RID): Not regulated for transport

14.3. Transport hazard class(es)

ADR
Transport hazard class(es) (ADR): Not applicable

IMDG
Transport hazard class(es) (IMDG): Not applicable

IATA
Transport hazard class(es) (IATA): Not applicable

ADN
Transport hazard class(es) (ADN): Not applicable

RID
Transport hazard class(es) (RID): Not applicable

14.4. Packing group

ADR
Packing group (ADR): Not applicable

IMDG
Packing group (IMDG): Not applicable

IATA
Packing group (IATA): Not applicable

ADN
Packing group (ADN): Not applicable

RID
Packing group (RID): Not applicable

14.5. Environmental hazards

Dangerous for the environment: No
Marine pollutant: No
Other information: No supplementary information available

14.6. Special precautions for user

Overland transport
No data available

Transport by sea
No data available

Air transport
No data available

Inland waterway transport
No data available

Rail transport
No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions
Ferrous Fumarate is not on the REACH Candidate List
Ferrous Fumarate is not on the REACH Annex XIV List
Directive 2012/18/EU (SEVESO III)

15.1.2. National regulations

Listed on the United States TSCA (Toxic Substances Control Act) inventory
Listed on the Canadian DSL (Domestic Substances List)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out
**Ferrous Fumarate**  
Safety Data Sheet  
According to Regulation (EU) 2015/830 (REACH Annex II)

### SECTION 16: Other information

<table>
<thead>
<tr>
<th>Indication of changes:</th>
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<tbody>
<tr>
<td>This sheet was updated (refer to the date at the top of this page).</td>
</tr>
</tbody>
</table>

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.