



Draft Assessment Report

Evaluation of Active Substances

Plant Protection Products

Prepared according to **Regulation (EC) 1107/2009**
as it applies in Great Britain

Elemental iron

Volume 3 – B.1 (AS)

Great Britain

November 2021

Version History

| When | What |
|---------------|-------------|
| November 2021 | Initial DAR |
| | |
| | |

Table of contents

| | |
|--|----------|
| B.1. IDENTITY | 4 |
| B.1.1. IDENTITY OF THE ACTIVE SUBSTANCE | 4 |
| B.1.1.1. Common name proposed or ISO-accepted and synonyms | 4 |
| B.1.1.2. Chemical name (IUPAC and CA nomenclature)..... | 4 |
| B.1.1.3. Producer's development code number..... | 4 |
| B.1.1.4. CAS, EEC and CIPAC numbers..... | 4 |
| B.1.1.5. Molecular and structural formula, molecular mass | 4 |
| B.1.1.6. Method of manufacture (synthesis pathway) of the active substance..... | 4 |
| B.1.1.7. Specification of purity of the active substance in g/kg | 4 |
| B.1.1.8. Identity and content of additives (such as stabilisers) and impurities..... | 4 |
| B.1.1.9. Analytical profile of batches..... | 4 |
| B.1.2. REFERENCES RELIED ON..... | 5 |

B.1. IDENTITY**B.1.1. IDENTITY OF THE ACTIVE SUBSTANCE**

| | |
|--|--|
| B.1.1.1. Common name proposed or ISO-accepted and synonyms | Elemental iron |
| B.1.1.2. Chemical name (IUPAC and CA nomenclature) | |
| IUPAC | Iron |
| CA | Fe |
| B.1.1.3. Producer's development code number | None |
| B.1.1.4. CAS, EEC and CIPAC numbers | |
| CAS | 7439-89-6 |
| EEC | 231-096-4 |
| CIPAC | No CIPAC number is allocated for elemental iron |
| B.1.1.5. Molecular and structural formula, molecular mass | |
| Molecular formula | Fe(O) |
| Structural formula | Fe(0)- |
| Molecular mass | 55.845 u ± 0.002 u |
| B.1.1.6. Method of manufacture (synthesis pathway) of the active substance | Confidential information see Volume 4 |
| B.1.1.7. Specification of purity of the active substance in g/kg | The minimum purity of elemental iron is 989 g/kg |
| B.1.1.8. Identity and content of additives (such as stabilisers) and impurities | |
| <i>B.1.1.8.1. Additives</i> | Confidential information see Volume 4 |
| <i>B.1.1.8.2. Significant impurities</i> | Confidential information see Volume 4 |
| <i>B.1.1.8.3. Relevant impurities</i> | Elemental iron contains the following toxicologically relevant impurities: Arsenic: Max 0.03 g/kg Mercury: Max 0.0001 g/kg Lead: Max 0.003 g/kg Cadmium: Max 0.001 g/kg Nickel: Max 0.2 g/kg |
| B.1.1.9. Analytical profile of batches | Confidential information see Volume 4 |

B.1.2. REFERENCES RELIED ON

| Data Point | Author(s) | Year | Title Company Report No. Source (where different from company) GLP or GEP status Published or not | Vertebrate study Y/N | Data protection claimed Y/N | Justification if data protection is claimed | Owner | Previous evaluation |
|-------------------|------------------|-------------|--|-------------------------------------|--|--|--------------|--------------------------------|
| See Volume 4 | | | | | | | | |