

# SAFETY DATA SHEET

## FOLY FERRO

This safety data sheet complies with the requirements of:  
Regulation (EC) No. 453/2010 and Regulation (EC) No. 1272/2008



SDS # : Q35-IRON-A  
Revision date: 2018-11-13  
Format: EU  
Version 1

### Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product Identifier

Product Identifier

Product Code(s)

Q35-IRON-A

Product Name

FOLY FERRO

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

Recommended Use:

A soluble fertilizer for use in agriculture and horticulture

Restrictions on use

Use as recommended by the label.

#### 1.3. Details of the supplier of the safety data sheet

Manufacturer

FMC Agro Limited  
Rectors Lane  
Pentre  
Flintshire  
CH5 2DH  
United Kingdom  
Tel: + 44 1244 537370  
E-mail: fmc.agro.uk@fmc.com

For further information, please contact:

Contact point

Tel: +44(0) 1244 537370  
Email: fmc.agro.uk@fmc.com

#### 1.4. Emergency telephone number

Emergency telephone

Medical emergencies:

Austria: +43 1 406 43 43  
Belgium: +32 70 245 245  
Bulgaria: +359 2 9154 409  
Cyprus: 1401  
Czech Republic: +420 224 919 293, +420 224 915 402  
Denmark: +45 82 12 12 12  
France: +33 (0) 1 45 42 59 59  
Finland: +358 9 471 977  
Greece: 30 210 77 93 777  
Hungary: +36 80 20 11 99  
Ireland (Republic): +352 1 809 2166  
Italy: +39 02 6610 1029  
Lithuania: +370 523 62052, +370 687 53378  
Luxembourg: +352 8002 5500  
Netherlands: +31 30 274 88 88  
Norway: +47 22 591300  
Poland: +48 22 619 66 54, +48 22 619 08 97

Portugal: 808 250 143 (in Portugal only), +351 21 330 3284  
Romania: +40 21318 3606  
Slovakia: +421 2 54 77 4 166  
Slovenia: +386 41 650 500  
Spain: +34 91 562 04 20  
Sweden: +46 08-331231112  
Switzerland: 145  
United Kingdom: 0870 600 6266 (in the UK only)  
U.S.A. & Canada: +1 800 / 331-3148  
All other countries: +1 651 / 632-6793 (Collect)

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture *Regulation (EC) No 1272/2008*

Hazard symbol not required.  
This product has no classification under CLP  
This product has no label elements.

### 2.2. Label elements

#### **Hazard pictograms**

Hazard symbol not required.  
This product has no classification under CLP  
This product has no label elements.

#### **Signal Word**

None

### 2.3. Other hazards

This product is not identified as a PBT/vPvB substance.

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Chemical name	EC-No	CAS-No	Weight percent	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH registration number
Acetic acid, oxo-, sodium salt, reaction products with ethylenediamine and phenol, Iron	283-044-5	84539-55-9	60-100	Not classified	No data available

#### **Additional Information**

For the full text of the H- and EUH- phrases mentioned in this Section, see Section 16

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>Eye Contact</b>	Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Call a doctor if irritation persists.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water. If symptoms persist, call a doctor.
<b>Inhalation</b>	Remove person from exposure ensuring one's own safety while doing so. Consult a doctor if necessary.
<b>Ingestion</b>	Rinse mouth with water and afterwards drink plenty of water or milk.

**4.2. Most important symptoms and effects, both acute and delayed**

<b>Most important symptoms and effects, both acute and delayed</b>	None known.
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**4.3. Indication of any immediate medical attention and special treatment needed**

<b>Indication of immediate medical attention and special treatment needed, if necessary</b>	Treat symptomatically.
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**Section 5: FIREFIGHTING MEASURES****5.1. Extinguishing media****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

<b>Small Fire</b>	Dry chemical, Carbon dioxide (CO <sub>2</sub> ).
<b>Large Fire</b>	Water spray, Foam.

**Unsuitable extinguishing media**

None

**5.2. Special hazards arising from the substance or mixture**

Not flammable, Not easily combustible.

**5.3. Advice for firefighters**

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

**Section 6: ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Avoid contact with the skin and the eyes. Avoid breathing dust. Stop leak if you can do it without risk. For personal protection see section 8.

For further clean-up instructions, call Emergency Hotline number listed in Section 1 "Product and Company Identification" above.

**For emergency responders**

Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

Keep material out of lakes, streams, ponds, and sewer drains. Contain the spillage using bunding.

**6.3. Methods and material for containment and cleaning up**

<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Take up mechanically and collect in suitable container for disposal. Transfer to a closable,

labeled salvage container for disposal by an appropriate method. Refer to section 13 of SDS for suitable method of disposal. After cleaning, flush away traces with water.

#### **6.4. Reference to other sections**

See section 8 for more information. See section 13 for more information.

### **Section 7: HANDLING AND STORAGE**

#### **7.1. Precautions for safe handling**

##### **Handling**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Avoid dust formation.

##### **Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

#### **7.2. Conditions for safe storage, including any incompatibilities**

##### **Storage**

Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Keep out of reach of children and animals. Keep away from food, drink and animal feedingsuffs.

##### **Packageing material**

Must only be kept in original packaging.

#### **7.3. Specific end use(s)**

##### **Specific Use(s)**

Agriculture: Fertiliser.

##### **Risk Management Methods (RMM)**

The information required is contained in this Safety Data Sheet.

### **Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **8.1. Control parameters**

##### **Derived No Effect Level (DNEL)**

DNEL for workers:  
0,8 mg/kg of body weight / day (skin exposition)  
1,8 mg/m<sup>3</sup> (inhalation)

DNEL for population in general:  
0,417 mg/kg of body weight / day (skin exposition)  
0,435 mg/m<sup>3</sup> (inhalation)  
0,125 mg/kg of body weight / day (oral exposition).

##### **Predicted No Effect Concentration (PNEC)**

PNEC water (water): 2,40 mg/L  
PNEC water (sea water): 0,24 mg/L  
PNEC water (intermitent emissions): 1,20 mg/L  
PNEC sediment (water): 1,90 mg/kg  
PNEC sediment (sea water): 0,19 mg/kg  
PNEC soil: 1,60 mg/kg  
PNEC residual water treatment plant: 45,00 mg/L.  
PNEC oral: 1,1 mg/kg of food.

#### **8.2. Exposure controls**

##### **Engineering measures**

Ensure adequate ventilation, especially in confined areas.

##### **Personal protective equipment**

##### **Eye/Face Protection**

Tightly fitting safety goggles. Provide emergency on-site eyewash.

<b>Hand Protection</b>	Rubber gloves. Nitrile gloves. PVC gloves. Chemical resistant according to EN 374.
<b>Skin and Body Protection</b>	Wear protective gloves/clothing.
<b>Respiratory Protection</b>	In case of insufficient ventilation wear suitable respiratory equipment.
<b>Environmental exposure controls</b>	Refer to specific Member State legislation for requirements under Community environmental legislation.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Physical State</b>	Dry powder
<b>Appearance</b>	micropowder
<b>Odour</b>	Characteristic
<b>Colour</b>	Black, Red
<b>Odour threshold</b>	No information available
<b>pH</b>	7.5 - 9.5 (1% solution)
<b>Melting point/freezing point</b>	> 200 °C, Decomposes
<b>Boiling point/boiling range</b>	Decomposes
<b>Flash point</b>	No information available
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	
<b>Flammability Limit in Air</b>	
Upper flammability limit:	No information available
Lower flammability limit	No information available
<b>Vapour pressure</b>	< 1E-6hPa @ 25°C
<b>Vapour density</b>	No information available
<b>Specific gravity</b>	No information available
<b>Water solubility</b>	Theoretical 120 g/L ; Practical (CoA) 60 g/L
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient</b>	Log Kow: < -4,2 @ 23°C
<b>Autoignition temperature</b>	331°C @ 1013.25 hPa
<b>Decomposition temperature</b>	No information available
<b>Viscosity, kinematic</b>	No information available
<b>Viscosity, dynamic</b>	No information available
<b>Explosive properties</b>	Not explosive
<b>Oxidising properties</b>	Non-oxidizing

### 9.2. Other information

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC content (%)</b>	No information available
<b>Density</b>	450 – 650 kg/m <sup>3</sup>
<b>Bulk density</b>	No information available
<b>K<sub>st</sub></b>	No information available

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

None under normal use conditions

### 10.2. Chemical stability

Stable under recommended storage conditions.

#### Explosion data

**Sensitivity to Mechanical Impact** No information available.

**Sensitivity to Static Discharge** No information available.

### 10.3. Possibility of hazardous reactions

**Hazardous polymerisation**

Hazardous polymerization does not occur.

**Hazardous reactions**

None under normal processing. Decomposition may occur on exposure to conditions or materials listed below.

**10.4. Conditions to avoid**

Heat.

**10.5. Incompatible materials**

Strong oxidising agents,

**10.6. Hazardous decomposition products**

May emit toxic fumes under fire conditions: Nitrogen oxides (NOx), Carbon oxides.

**Section 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Acute toxicity****Product Information**

Product does not present an acute toxicity hazard based on known or supplied information.

<b>LD50 Oral</b>	> 2000 mg/kg (rat) (Method: OECD 401)
<b>LD50 Dermal</b>	> 2000 mg/kg (rat) OECD 402
<b>Inhalation LC50</b>	> 4200 mg/m <sup>3</sup> (rat) (Method: OECD 403)

<b>Skin corrosion/irritation</b>	Non-irritating (rabbit). (Method: OECD 404).
<b>Serious eye damage/eye irritation</b>	Non-irritating (rabbit). (Method: OECD 405).
<b>Sensitisation</b>	Non-sensitizing (mice-LLNA) (Method OECD 429)
<b>Mutagenicity</b>	Not mutagenic.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen.

<b>Reproductive toxicity</b>	No information available.
<b>Teratogenicity</b>	Not teratogenic in animal studies.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.

<b>Aspiration hazard</b>	No information available.
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**Section 12: ECOLOGICAL INFORMATION****12.1. Toxicity**

<b>Ecotoxicity</b>	The product is not toxic to fish, aquatic invertebrates, aquatic algae, and aquatic microorganisms (OECD Guidelines 203, 202, 201, and 209, respectively).
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**12.2. Persistence and degradability**

Product is biodegradable.

**12.3. Bioaccumulative potential**

Does not bioaccumulate.

**12.4. Mobility in soil****Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

**12.6. Other adverse effects**

No information available

## Section 13: DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods****Waste from residues / unused products**

Transfer to a suitable container and arrange for collection by specialised disposal company. Do not contaminate ponds, waterways or ditches with chemical or used containers. Do not discharge to sewer systems.

**Contaminated Packaging**

Clean container with water. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of rinse water in accordance with local and national guidelines.

**EWC Waste Disposal No**

02 01 08

**OTHER INFORMATION**

NOTE : The user's attention is drawn to the possible existence of specific European, national or local regulations regarding disposal.

## Section 14: TRANSPORT INFORMATION

**NOTE**

NOT CLASSIFIED AS DANGEROUS IN THE MEANING OF TRANSPORT REGULATIONS.

**IMDG/IMO****14.1 UN/ID no**

Not regulated

**14.2 Proper Shipping Name**

Not regulated

**14.3 Hazard class**

Not regulated

**14.4 Packing Group**

Not regulated

**14.5 Marine Pollutant**

Not applicable

**14.6 Special Provisions**

None

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**

This product is not transported in bulk containers.

**RID****14.1 UN/ID no**

Not regulated

**14.2 Proper Shipping Name**

Not regulated

**14.3 Hazard class**

Not regulated

**14.4 Packing Group**

Not regulated

**14.5 Environmental Hazard**

Not applicable

**14.6 Special Provisions**

None

**ADR/RID**

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	None

**ICAO/IATA**

14.1 UN/ID no	Not regulated
14.2 Proper Shipping Name	Not regulated
14.3 Hazard class	Not regulated
14.4 Packing Group	Not regulated
14.5 Environmental Hazard	Not applicable
14.6 Special Provisions	None

## Section 15: REGULATORY INFORMATION

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

**European Union****Authorisations and/or restrictions on use:**

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

**Persistent Organic Pollutants**

Not Applicable

**Ozone-depleting substances (ODS) regulation (EC) 1005/2009**

Not Applicable

**International Inventories**

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Acetic acid, oxo-, sodium salt, reaction products with ethylenediamine and phenol, Iron 84539-55-9			X					

### 15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance

## Section 16: OTHER INFORMATION

### Key or legend to abbreviations and acronyms used in the safety data sheet

**Legend**

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	CAS (Chemical Abstracts Service)
Ceiling:	Maximum limit value:
DNEL:	Derived No Effect Level (DNEL)



**EINECS:** EINECS (European Inventory of Existing Chemical Substances)  
**GHS:** Globally Harmonised System (GHS)  
**IATA:** International Air Transport Association (IATA)  
**ICAO:** International Civil Aviation Organization  
**IMDG:** International Maritime Dangerous Goods (IMDG)  
**LC50:** LC50 (lethal concentration)  
**LD50:** LD50 (lethal dose)  
**PBT:** Persistent, Bioaccumulative, and Toxic (PBT) Chemicals  
**RID:** Regulations Concerning the International Transport of Dangerous Goods by Rail  
**STEL:** Short term exposure limit  
**SVHC:** SVHC: Substances of Very High Concern for Authorisation:

**TWA:** time weighted average  
**vPvB:** very Persistent and very Bioaccumulative

**Revision date:** 2018-11-13

**Reason for revision:** Initial Release.

**Disclaimer**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

**Prepared By**

FMC Corporation

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**End of Safety Data Sheet**