

# Safety Data Sheet

According to Regulation (EC) No 2015/830



## Iperen Fer Triathlon

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

#### 1.1. Product identifier

Trade name: **Iperen Fer Triathlon**

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

Use of the substance/mixture: fertilizer.

Uses advised against: not identified.

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

Van Iperen International BV

Smidsweg 24

3273 LK Westmaas - Nederland

T +31 (0) 186 578 888 - F +31 (0) 186 573 452

[info@iperen.com](mailto:info@iperen.com) - [www.vaniperen.com](http://www.vaniperen.com)

#### 1.4. Emergency telephone number

In case of emergency contact the national emergency telephone number: UK and Ireland: 112 or 999

Country	Official advisory body	Address	Emergency number
Ireland (Republic of)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Classification according to Regulation EU-GHS/CLP No 1272/2008:

Skin Sens. 1B H317 May cause an allergic skin reaction.

#### 2.2. Label elements

Labelling according to EU-GHS/CLP No 1272/2008:



Warning

H317 May cause an allergic skin reaction.

P280 Wear protective gloves/ protective clothing/eye protection/face protection.

P361 Remove/Take off immediately all contaminated clothing.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P501 Dispose of contents/container according to local regulations.

#### 2.3. Other hazards

The mixture does not meet the criteria for PBT or vPvB in accordance with Annex XIII of the REACH Regulation. (see section 12).

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances –

not concern

#### 3.2. Mixture:

Substance	Concentration	CAS No	1061328-86-6
FeHBED sodium [2,2'-(ethane-1,2-diylbis([2-(hydroxy-kO)benzyl]imino-kN))diacetato-kO(4-)]ferrat(1-)	> 1%	EC No	700-327-5
		Index No	Not available
		REACH No	01-2119434848-27-0000
		Classification according to Regulation 1272/2008	Skin Sens. 1B H317

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

General advice: The first step is to put the injured person from a contaminated environment.

If swallowed:

1. Rinse mouth, give 2-3 glasses of water to drink. Induce vomiting. Never give anything by mouth to an unconscious person.

2. Seek medical attention.

In case of eye contact:

1. Rinse thoroughly with plenty of cold water.

2. If needed, seek medical attention.

In case of skin contact:

1. Rinse off with plenty of water. Remove contaminated cloths.

2. If symptoms persist, seek medical attention.

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If inhaled

1. Unlikely route of exposure due to the form of the product - a non-dusting microgranules.
2. Move to fresh air. If needed, seek medical attention.

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

The most important known symptoms and effects are described in section 2.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment: Symptomatic treatment.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Depending on the materials stored in the neighbourhood use following extinguishing media: foam, water spray, dry chemical powder, CO<sub>2</sub>.  
Unsuitable extinguishing media: none known.

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

Hazardous decomposition / combustion products: produces oxides of nitrogen on combustion: NyOx,

### 5.3. Advice for firefighters

Fire-fighters should wear suitable protective clothing such as boots, overalls, gloves, eyes and face protection and breathing apparatus. Do not allow to enter fire-fighting water to surface water or groundwater.

## SECTION 6: Accidental release measures

General advice:

Do not flush into public water courses. Do not empty into drains, ground or surface water and soil. If the product enters drains or water, immediately inform appropriate authorities.

### 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use personal protective equipment – see section 8.

### 6.2. Environmental precautions

Do not let product enter drains. If the product enters drains or water, immediately inform appropriate authorities.

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

Sweep up shovel. Contain spillage and then collect by wet-brushing and place in container for disposal according to local regulations. After removal, wash the contaminated area with water.

### 6.4. Reference to other sections

For disposal see section 13. For personal protective equipment see section 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment according to section 8. Do not disposal to sewage system. Avoid formation of dust.

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

Keep in original, tightly closed container in a cool, dry place. Keep away from heat and source of ignition.

### 7.3. Specific end use(s)

No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

According to the country-specific regulations.

### 8.2. Exposure controls

Personal protective equipment:

Eye/face protection Use safety goggles

Skin/hands protection Handle with protective gloves (recommended nitrile gloves, layer thickness 0,11 mm and breakthrough time > 480 minutes). Use protective clothing.

Industrial hygiene: Handle in accordance with good industrial hygiene and safety practice. Change contaminated clothing. Avoid contact with skin. Avoid breathing dust. Wash hands after working with product. When using do not eat or drink. Immediately remove spilled product.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	Solid, micro-granular
Colour	brown
Odour	Odourless

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pH value 1,0 % solution	No data available
Melting point/freezing point	No data available
Initial boiling point	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	Not flammable
Upper/lower flammability or explosive limits;	Not applicable
Vapour pressure	No data available
Vapour density	No data available
Relative/bulk density	No data available
Solubility(ies)	Soluble in water
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Not applicable
Explosive properties	Not explosive
Oxidizing properties	No oxidizing properties

### 9.2 Other information

Iron Fe 8.2 ± 0.5 % w/w

## SECTION 10: Stability and reactivity

### 10.1 Reactivity -

the mixture has low chemical reactivity.

### 10.2 Chemical stability –

stable under normal conditions of use and storage.

### 10.3 Possibility of hazardous reactions -

no data available

### 10.4 Conditions to avoid –

keep away from heat.

### 10.5 Incompatible materials –

none.

### 10.6 Hazardous decomposition products –

in the event of fire produces oxides of nitrogen NyOx

## SECTION 11: Toxicological information

There are no available toxicological studies for the mixture as such. The assessment was made on the basis of ownership of components of the mixture.

- a) Acute toxicity: not harmful
- b) Skin corrosion/irritation - not irritating
- c) Serious eye damage/eye irritation - not irritating
- d) Respiratory or skin sensitization - may cause an allergic skin reaction
- e) Germ cell mutagenicity - no mutagenic
- f) Carcinogenicity - not carcinogenic
- g) Reproductive toxicity – not harmful
- h) Specific target organ toxicity (STOT) - single exposure – not harmful
- i) Specific target organ toxicity (STOT)- repeated exposure - not harmful
- j) Aspiration hazard – not applicable

Potential health effects

No data available.

Signs and Symptoms of Exposure

No data available.

FeHBED – toxicity data:

Acute toxicity:

LD50 (oral, rat, OECD 420/Method B.1.Bis) >2000 mg/kg

LD50 (dermal, rat, OECD 402/Method B.3) >2000 mg/kg bw

Skin corrosion/irritation - no irritating (OECD 404 / EU Method B.4.),

Serious eye damage/eye irritation - no irritating (OECD 405 / EU Method B.5.),

Respiratory or skin sensitization - no skin or respiratory sensitization (OECD 406 / EU Method B.6.),

Germ cell mutagenicity - no mutagenic (Bacterial Reverse Mutation Assay (Ames Test) according to OECD TG 471 – negative)

Carcinogenicity - no carcinogenic

Reproductive toxicity – not harmful

NOAEL (fertility) 200 mg/kg bw/day (estimated based on one-generation study with read-across substance Fe(Na)EDDHMA)

NOAEL (developmental toxicity) 500 mg/kg bw/day day (estimated based on OECD 414 study with read-across substance Fe(Na)EDDHA)

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### SECTION 12: Ecological information

#### 12.1. Toxicity

There are no available ecotoxicological studies for the mixture as such. The assessment was made on the basis of ownership of components of the mixture.

#### 12.2 Persistence and degradability

No data available.

#### 12.3 Bioaccumulative potential

No data available.

#### 12.4 Mobility in soil

No data available.

#### 12.5 Results of PBT and vPvB assessment

The mixture does not meet the criteria for PBT or vPvB in accordance with Annex XIII of the REACH Regulation.

#### 12.6 Other adverse effects -

no data available

FeHBED – eco-toxicity data:

Toxicity

LC50 (fish, 96h) > 100 mg/l

EC50 (daphnia, 48h) > 100 mg/l

Persistence and degradability

FeHBED was investigated for its inherent biodegradation potential according to OECD 302B. The substance attained 8.2 % degradation after 28 days and is therefore considered as not inherently biodegradable. Furthermore, the substance formed very stable complexes in an iron chelate interaction experiment. Thus it will be hydrolytically stable as well.

Bioaccumulative potential

The substance specific logPow was determined as -1.96 according to OECD Guideline 107. The threshold value is  $\leq 4,5$  so the substance has a low potential for bioaccumulation.

Mobility in soil

The log Koc value are less than the threshold value of 3, indicating no adsorbing potential for this compound.

Results of PBT and vPvB assessment

FeHBED does not fulfil any of the relevant criteria for a PBT or a vPvB-Substance, respectively.

### SECTION 13: Disposal considerations

Packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system.

### SECTION 14: Transport information

#### 14.1 UN number

Not applicable

#### 14.2 UN proper shipping name

Not applicable

#### 14.3 Transport hazard class(es)

Not applicable

#### 14.4 Packing group

Not applicable

#### 14.5 Environmental hazards

Not applicable

#### 14.6 Special precautions for user

Not applicable

#### 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

1. REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC with amendments

2. COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

3. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL

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of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; with amendments

4. Regulation (EU) No 649/2012 Of The European Parliament and of The Council of 4 July 2012 concerning the export and import of hazardous chemicals.

5. Regulation (EC) No 850/2004 Of The European Parliament and of The Council Of 29 April 2004 On Persistent Organic Pollutants And Amending Directive 79/117/EEC.

6. European Agreement Concerning The International Carriage Of Dangerous Goods By Road (ADR), 2017

### 15.2. Chemical Safety Assessment

The chemical safety assessment was not carried out.

## SECTION 16: Other information

Other information:

Classification of mixture was carried on based on ingredients of the mixture (Additivity formula)

Abbreviations:

DNEL: Derived No-Effect Level

PNEC: Predicted No-Effect Concentration

NOAEL: No Observed Adverse Effect Level

NOEC: No observed effect concentration.

LD50: Lethal Dose 50%. The LD50 corresponds to the dose of a tested substance causing 50% lethality during a specified time interval.

LC50: Lethal Concentration 50%. The LC50 corresponds to the concentration of a tested substance causing 50% lethality during a specified time interval.

EC50: Effective Concentration 50%. The EC50 corresponds to the concentration of a tested substance causing 50% changes in response (e.g. on growth) during a specified time interval.

BCF: Bioconcentration factor

PBT: Persistent, bioaccumulative and toxic

vPvB: Very Persistent and very Bioaccumulative

Indication of changes:

Section 2: the new classification and labeling of substance, before – not classified, currently – Skin Sens. 1B H317 Section 3 – added information about substance FeHBED

Section 11 – added toxicity data for FeHBED

Section 12 – added eco-toxicity data for FeHBED

### Company disclaimer

*The information provided in this safety data sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.*