

SDS = Safety Data Sheet according to Regulation (EC) No. 453/2010

Issue date: 8/24/2016 Revision date: 10/12/2021

Supersedes version of: 10/17/2017

Version: 2.0

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

1.1. Product identifier	
Product form	: Substance
Trade name	: Fe-EDDHA 6% 4,0% ortho/ortho
Chemical name	: ethylendiamine-N,N-bis(2-hidroxyphenylacetic acid), ferric sodium complex
IUPAC name	: Acetic acid, oxo-, sodium salt, reaction products with ethylenediamine and phenol, iron sodium salts
EC-No.	: 283-044-5
CAS-No.	: 84539-55-9
REACH registration No	: 01-2119487279-21
Product code	: 150212176, 150212177
Type of product	: Fertilizer
Product group	: Trade product

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

1.2.1. Relevant identified uses	
Main use category	: Professional use
Industrial/Professional use spec	: For professional use only
Use of the substance/mixture	: Fertilizer
Function or use category	: Fertilisers

#### 1.2.2. Uses advised against

No additional information available

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

Easygro Woutersweg 10 P.O. Box 2 2691 PR 's Gravenzande - Nederland T +31 (0) 174 446 100 - F +31 (0) 174 446 150 SDS@brinkman.nl - www.royalbrinkman.com

#### 1.4. Emergency telephone number

No additional information available

#### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

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]

Labelling according to Directive 67/548/EEC or 1999/45/EC

2.3. Oth

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SECTION 3: Composition/information on ingredients			
3.1. Substances			
Substance type	: Mono-constituent		
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Easygro Fe-EDDHA 6% (4,0% o-o)	(CAS-No.) 84539-55-9 (EC-No.) 283-044-5 (REACH-no) 01-2119487279-21	100	Not classified

#### Full text of H-statements: see section 16

3.2. Mixtures			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures First-aid measures general	: Remove contaminated clothes.		
First-aid measures after inhalation	: Remove contaminated ciones. : Remove person to fresh air and keep comfortable for breathing.		
First-aid measures after skin contact	: Wash skin with plenty of water.		
First-aid measures after eye contact	: Rinse eyes with water as a precaution.		
First-aid measures after ingestion	: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.		
4.2. Most important symptoms and eff	·		
Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.		
	cal attention and special treatment needed		
Treat symptomatically.			
SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Water spray. Dry powder. Foam.		
Unsuitable extinguishing media	: Do not use a heavy water stream. Do not use carbon dioxide.		
5.2. Special hazards arising from the s			
Hazardous decomposition products in case of fire	: Toxic fumes may be released.		
5.3. Advice for firefighters			
Precautionary measures fire	: Approach from upwind.		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.		
Other information	: Do not allow run-off from fire-fighting to enter drains or water courses.		
SECTION 6: Accidental release me	asures		
6.1. Personal precautions, protective of	equipment and emergency procedures		
General measures	: Avoid breathing dust, mist or spray.		
6.1.1. For non-emergency personnel			
Protective equipment	: Wear suitable protective clothing.		
Emergency procedures	: Ventilate spillage area.		
Measures in case of dust release	: Avoid dust production.		
6.1.2. For emergency responders	. Do not attempt to take action without auitable protective assument. For further information		
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 contain	ment and cleaning up		
For containment	: Collect spillage.		
Methods for cleaning up	: Mechanically recover the product.		
Other information	: Dispose of materials or solid residues at an authorized site.		

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6.4. Reference to other sections	
	For further information refer to section 8: "Exposure controls/personal protection".
SECTION 7: Handling and stora	ae
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, in	icluding any incompatibilities
Storage conditions	: 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	
Fe-EDDHA 6% 4,0% ortho/ortho (84539-	55-9)
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal Long-term - systemic effects, inhalation	0.8 mg/kg bodyweight/day 1.8 mg/m³

DNEL/DMEL (General population)	1.6 Hg/H <sup>2</sup>
Long-term - systemic effects.oral	0.417 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.435 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	0.125 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	2.4 mg/l
PNEC aqua (marine water)	0.24 mg/l
PNEC aqua (intermittent, freshwater)	1.2 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1.9 mg/kg dwt
PNEC sediment (marine water)	0.19 mg/kg dwt
PNEC (Soil)	
PNEC soil	1.6 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	1.1 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	45 mg/l

#### 8.2. Exposure controls

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

Appropriate engineerin	ng controis		. Ensure good ventilat	ION OF THE WORK STATION.			
Hand protection			: Protective gloves				
Туре	Type Material		Permeation	Thickness (mm)	Penetratio	on	Standard
Disposable gloves	Nitrile rubb Chloropren (CR), Polyvinylch (PVC)	e rubber	6 (> 480 minutes)	0.11			EN ISO 374
Eye protection : Safety glasses			·				
Type Field of application		oplication	Characteristics Stand		Standard		
Safety glasses with si	sses with side shields Dust		EN 166				
Skin and body protection : Wear suitable protect		ive clothing					
Туре		Standard					
According to the conditions of use, protective gloves, apron, boots, head and face protection must be worn		EN 14605, EN ISO 13982					
Respiratory protection : In case of insufficient		ventilation, wear suitable respiratory equipment					
Device		Filter type		Condition		Standard	
Respiratory protective a particle filter	device with	Type P2	Protection for Solid particles EN 143, EN 14		N 149		

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Environmental exposure controls

: Avoid release to the environment.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and c	hemical properties	
Physical state	: Solid	
Colour	: red. Black.	
Odour	: slight.	
Odour threshold	: No data available	
рН	: 7 – 9 10 g/l	
pH solution	: 1%	
Relative evaporation rate (butylacetate=1)	: No data available	
Melting point	: > 500 °C	
Freezing point	: Not applicable	
Boiling point	: No data available	
Flash point	: Not applicable	
Auto-ignition temperature	: 331 °C Not applicable	
Decomposition temperature	: 270 °C	
Flammability (solid, gas)	: Non flammable.	
Vapour pressure	: No data available	
Vapour pressure at 50 °C	: <0.000001 hPa	
Relative vapour density at 20 °C	: 1.5892	
Relative density	: Not applicable	
Density	: 500 – 800 kg/m <sup>3</sup>	
Solubility	: Water: 150 – 203 g/l	
Partition coefficient n-octanol/water (Log Pow)	: <4.2	
Viscosity, kinematic	: Not applicable	
Viscosity, dynamic	: No data available	
Explosive properties	: No data available	
Oxidising properties	: No data available	
Explosive limits	: Not applicable	
9.2. Other information		

#### SECTION 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.

40.0	Describility of boundaries us actions
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 material

Keep away from strong acids, strong bases and oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information		
11.1. Information on toxicological effects		
Acute toxicity	: Not classified	
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Fe-EDDHA 6% 4,0% ortho/ortho (84539	55.0)
LD50 oral rat	> 2000 mg/kg
LD50 oral	> 2000 kilogram
LC50 Inhalation - Rat	> 4.2 mg/l/4h
Skin corrosion/irritation	: Not classified
	pH: 7 – 9 10 g/l
Serious eye damage/irritation	: Not classified
	pH: 7 – 9 10 g/l
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Fe-EDDHA 6% 4,0% ortho/ortho (84539	-55-9)
Viscosity, kinematic	Not applicable
<b>SECTION 12: Ecological inform</b>	ation

12.1.	Toxicity

12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Fe-EDDHA 6% 4,0% ortho/ortho (84539-55-9)	
LC50 - Fish [1]	> 120 mg/l
EC50 - Crustacea [1]	> 120 mg/l
EC50 72h - Algae [1]	> 294 mg/l
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
Fe-EDDHA 6% 4,0% ortho/ortho (84539-55-9)	
Partition coefficient n-octanol/water (Log	< 4.2
Pow)	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assessme	nt
No additional information available	
12.6. Other adverse effects	
Additional information	: No other effects known. Avoid release to the environment.
SECTION 13: Disposal consideration	ns
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					
ADR					
14.1. UN number	14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
14.2. UN proper shipping					
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated	

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Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

#### 14.6. Special precautions for user

- Overland transport

Not regulated

- Transport by sea Not regulated

- Air transport Not regulated

- Inland waterway transport Not regulated

- Rail transport

Not regulated

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

#### 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

Fe-EDDHA 6% 4,0% ortho/ortho is not on the REACH Candidate List Fe-EDDHA 6% 4,0% ortho/ortho is not on the REACH Annex XIV List

#### 15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

#### SECTION 16: Other information

Abbreviations a	nd acronyms:
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
CLP	CLP = Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	DMEL = Derived Minimal Effect level
DNEL	DNEL = Derived-No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
EC50	Median effective concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

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SDS	SDS = Safety Data Sheet
STP	Sewage treatment plant
vPvB	Very Persistent and Very Bioaccumulative

#### <Ontbrekende vertaling : />

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.