



SYNTHRON

MEMBER OF PROTEX INTERNATIONAL

PRODUCT list

**ADDITIVES FOR
THE FERTILIZERS
AND AGROCHEMICALS
INDUSTRIES**

YOUR ADVANCED SOLUTIONS PARTNER

EDDHSA Fe

LIQUID SYNTHRON EDDHSA IRONS

THE ULTIMATE SOLUTIONS FOR SEVERE IRON DEFICIENCY

SYNTHRON® EDDHSA Fe 2% K LIQUID ORTHO +

2% iron w/w (100% ortho-ortho iron isomer).
Potassium salt recommended for very chalky soils.
Safer and no product loss vs powder with outstanding stability.

SYNTHRON® EDDHSA Fe 3% K LIQUID

3% iron w/w (70% ortho-ortho iron isomer).
Sodium-free salt recommended for chalky soils.
Safer and no product loss vs powder.

**OUTSTANDING STABILITY
THANKS TO 100% ORTHO-ORTHO
EDDHSA Fe 2%**

WHY USING SYNTHRON® EDDHSA Fe LIQUID PRODUCTS ?

EDDHSA Fe is being used more and more, in high pH calcareous soils, in hydroponics/fertigation to overcome specific physiologically induced iron deficiency problems.

€ MONEY SAVINGS

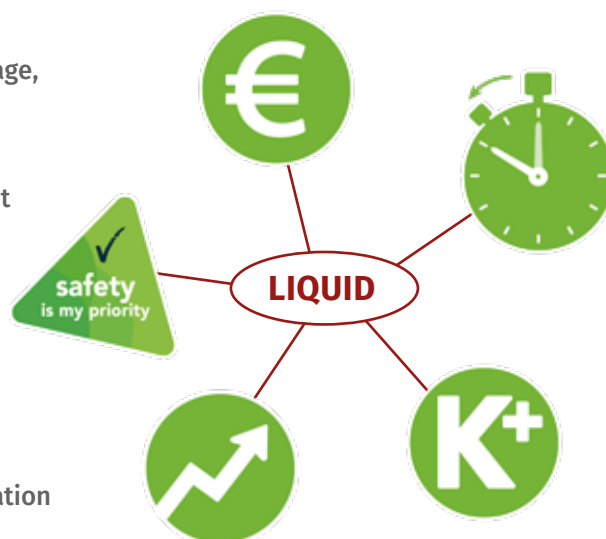
- No product loss during storage, handling and application
- Limited storage costs
- No cleaning extra costs
- No specific safety equipment

SAFER

- Dust-free
- Ready to apply solution

HIGHER PRODUCTIVITY

- 100% homogeneous formulation



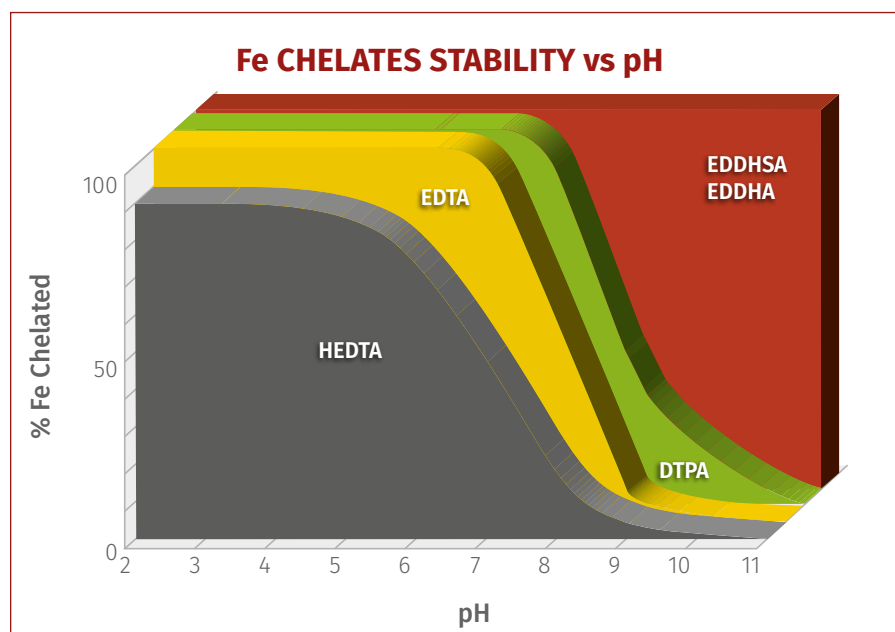
TIME SAVINGS

- Handling
- Application
- Cleaning

SUSTAINABLE

- No plastic bags thrown away
- Sodium-free salts
- Residue free

**EDDHSA STABLE
UP TO pH = 11**



SOLID SYNTHRON® EDDHSA IRONS

THE MOST STABLE AND SOLUBLE SOLID IRON CHELATES

SYNTHRON® EDDHSA Fe 6%

6% iron w/w (70% ortho-ortho iron isomer).
Sodium salt recommended for chalky soils.
Extreme solubility especially at low pH.

SYNTHRON® EDDHSA Fe 6% K

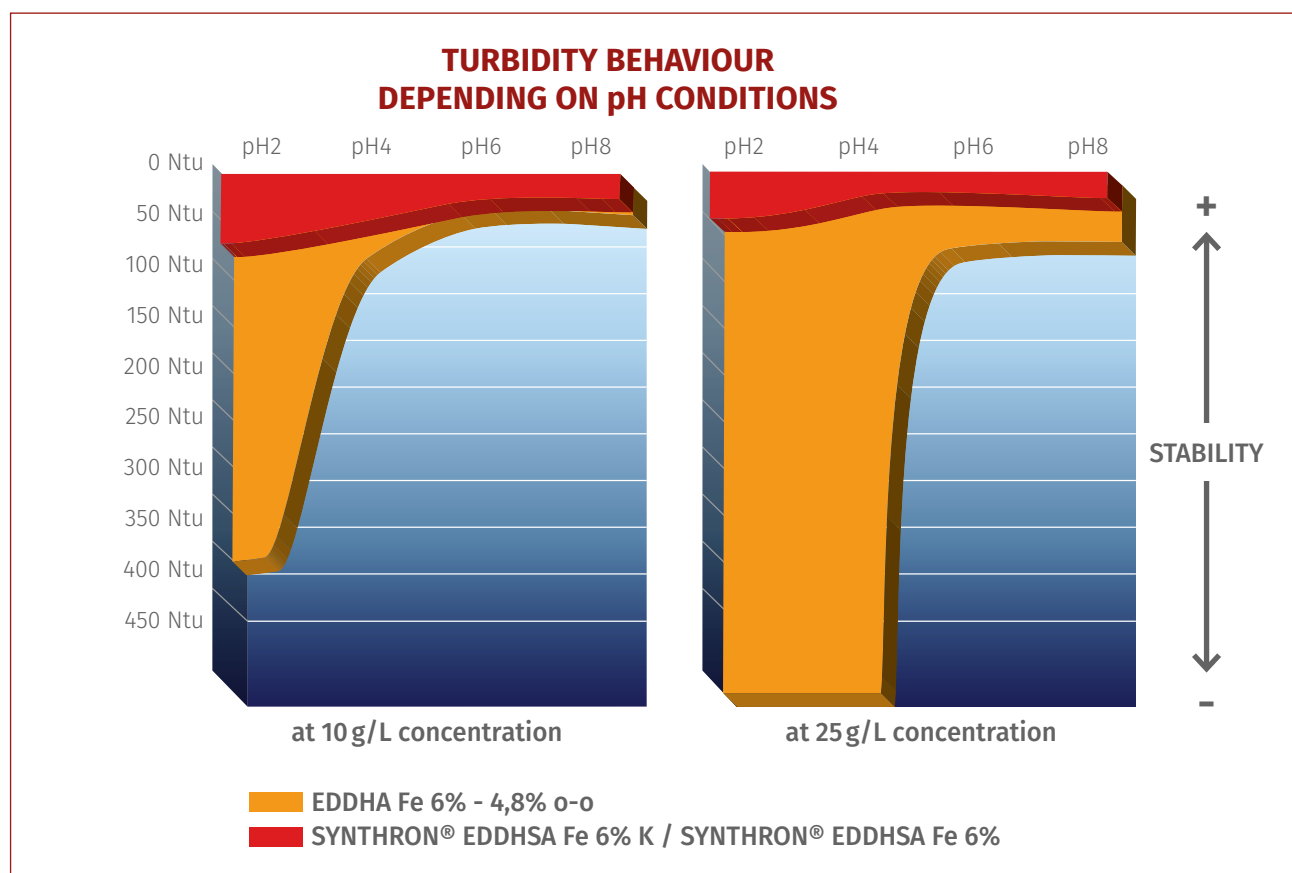
6% iron w/w (70% ortho-ortho iron isomer).
Sodium-free salt recommended for chalky soils.
Very high solubility especially at low pH.

WHY USING SYNTHRON® EDDHSA Fe POWDER PRODUCTS ?

EDDHSA irons display an outstanding compatibility with all fertilizers at all pH and allow the use of a single stock tank.

**EXTREME SOLUBILITY vs EDDHA
THANKS TO THE SULFONATED
FINE POWDER**

**BEST STABILITY vs EDDHA,
ESPECIALLY AT ACIDIC
TO VERY ACIDIC pH**



**HIGHEST
ORTHO-ORTHO CONTENT
vs OTHER EDDHSA Fe**

SYNTHRO®-PON W 578

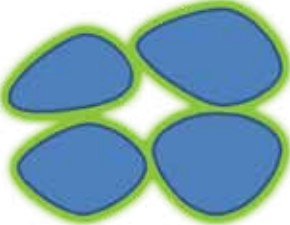
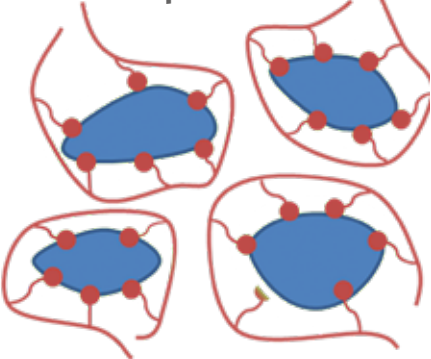
THE SOLUTION TO DISPERSE AND STABILIZE MORE INSOLUBLE MICRONUTRIENTS INTO WATER

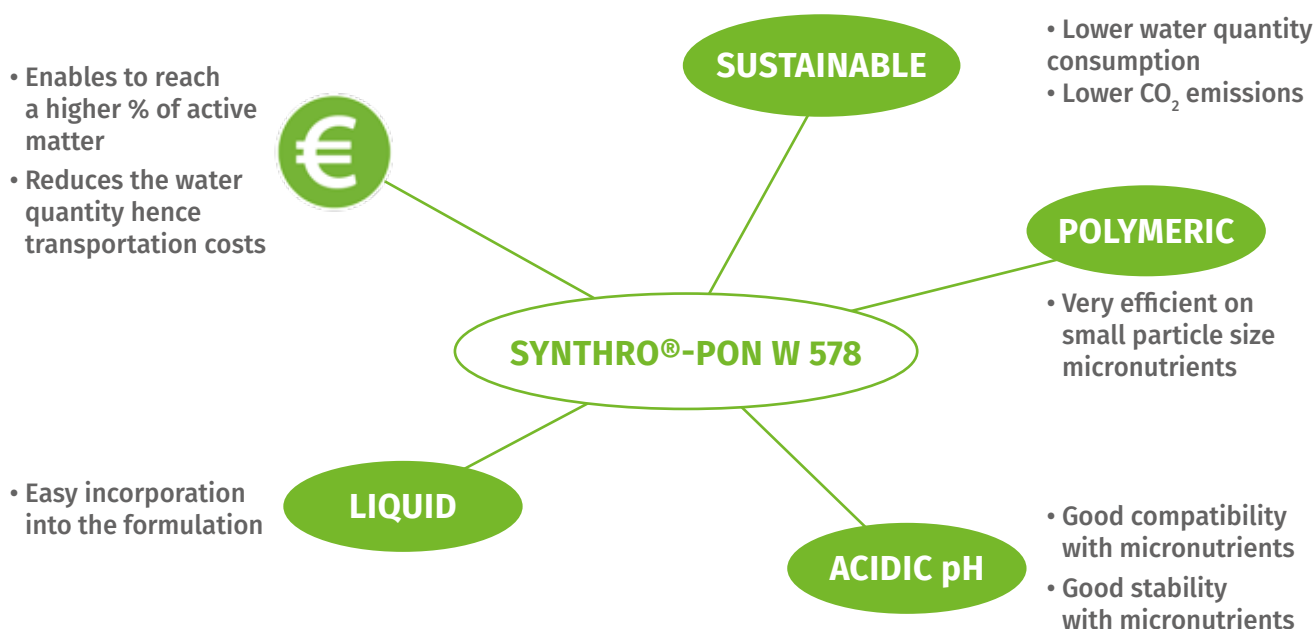
SYNTHRO®-PON W 578 New technology. High molecular weight dispersing agent.
Stabilizes a high concentration of small size particles of insoluble micronutrients into water.

HOW DOES SYNTHRO®-PON W 578 WORK ?

SYNTHRO®-PON W 578 helps formulators to easily add micronutrients in their formulations while providing good stability and viscosity.

THIS MECHANISM ACTS IN 3 STEPS :

<p>Micronutrient agglomerates</p> 		<p>Stabilised micronutrient particles</p> 
Wetting	Dispersing	Stabilization
<p>Replacement of air by SYNTHRO®-PON W 578</p>	<p>High shear force process to break agglomerates into smaller size particles</p>	<p>The micronutrient is stabilized by SYNTHRO®-PON W 578 to prevent the formation of uncontrolled flocculation</p>



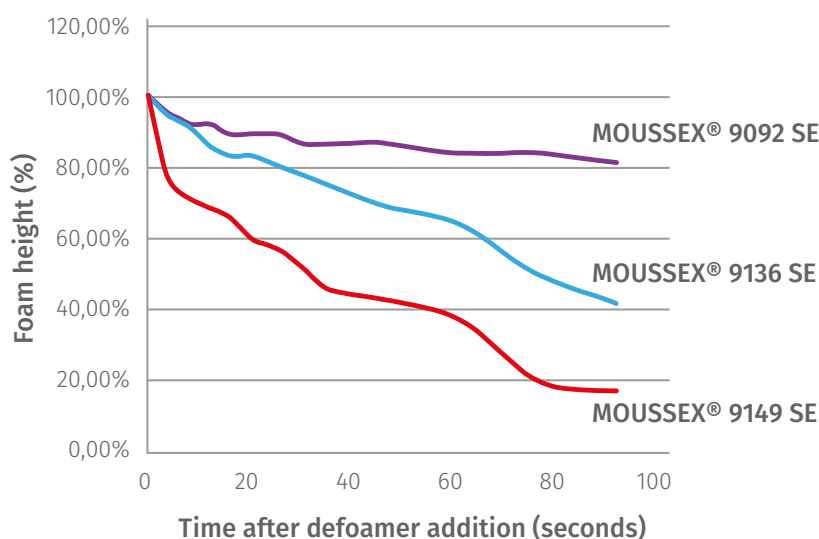
MOUSSEX® 9149 SE

EXCELLENT EFFICIENCY AND WIDE pH COMPATIBILITY DEFOAMER

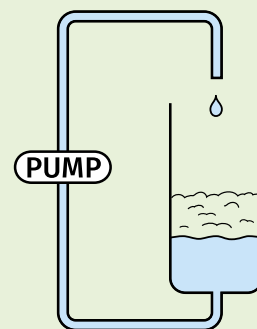
MOUSSEX® 9149 SE

Modified polysiloxane.
Very strong defoaming effect over a very wide range of pH.
Provides an excellent flash effect.

EXCELLENT DEFOAMING FLASH EFFECT



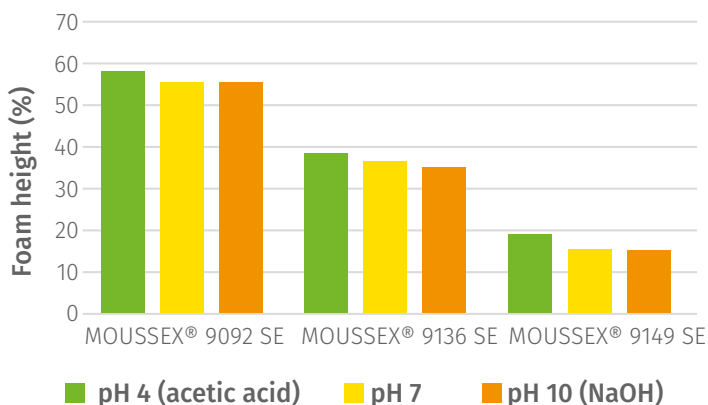
The foam is created with a foaming surfactant and a recirculation system by a pump. When the foam reaches a certain level, the pump is turned off. Droplets of SYNTHRON® defoamer is added in this formulation and we measure the height of foam during 90 s.



THE MOST VERSATILE DEFOAMER FOR ALL pH FORMULATIONS

Thanks to its specific composition MOUSSEX® 9149 SE offers a very good stability and defoaming effect over a wide range of pH.

Defoamer efficiency related to pH (dosage is 5.7 ppm of dry matter)



FEATURES AND BENEFITS OF MOUSSEX® 9149 SE

- Modified polysiloxane structure → Very efficient defoaming property in a short time
- Non-ionic emulsion → Stable and efficient over a wide range of pH
- Liquid additive → Easy incorporation into the formulation

CHELATED MICRONUTRIENTS

SYNTHRON® EDDHSA IRON CHELATES

SYNTHRON® EDDHSA Fe 2% K LIQUID ORTHO +	2% iron w/w (100% ortho-ortho iron isomer). Potassium salt recommended for very chalky soils. Safer and no product loss vs powder with outstanding stability.
SYNTHRON® EDDHSA Fe 3% K LIQUID	3% iron w/w (70% ortho-ortho iron isomer). Sodium-free salt recommended for chalky soils. Safer and no product loss vs powder.
SYNTHRON® EDDHSA Fe 6%	6% iron w/w (70% ortho-ortho iron isomer). Sodium salt recommended for chalky soils. Extreme solubility especially at low pH.
SYNTHRON® EDDHSA Fe 6% K	6% iron w/w (70% ortho-ortho iron isomer). Sodium-free salt recommended for chalky soils. Very high solubility especially at low pH.

SYNTHRON® EDTA CHELATES

SYNTHRON® EDTA Ca 10%	10% calcium w/w – sodium salt. Easily soluble spray agglomerated formulation. High calcium concentration.
SYNTHRON® EDTA Cu 9% N LIQUID	9% copper w/w – ammonium salt. Sodium-free salt. Safe and ready to use. Wide compatibility for formulating.
SYNTHRON® EDTA Fe 7% N LIQUID	7% iron w/w – ammonium salt. Sodium-free salt. Safe and ready to use.
SYNTHRON® EDTA Mn 6,2% K LIQUID	6% manganese w/w - potassium salt. Sodium-free salt. Safe and ready to use. Wide compatibility for formulating.
SYNTHRON® EDTA Zn 9,5% N LIQUID	9% zinc w/w - ammonium salt. Sodium-free salt . Safe and ready to use.
SYNTHRON® HEDTA Fe 4,5% LIQUID	4,5% iron w/w – sodium salt. Cost competitive liquid solution. Safe and ready to use.

SYNTHRON® DTPA IRON CHELATE

SYNTHRON® DTPA Fe 3,1% LIQUID	3,1% iron w/w – sodium salt. Wider pH stability vs EDTA iron chelates. Very safe for foliar application: no leaf burning vs EDTA iron chelates.
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SYNTHRON® EDTA MICRONUTRIENTS MIX

SYNTHRO®-MIX 78 LIQUID	Micronutrients mix containing Cu-Fe-Mn-Mo-Zn. Highly versatile and well balanced concentrated liquid formulation.
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LIQUID FORMULATION ADDITIVES

DISPERSING AGENTS – WETTING AGENTS

SYNTHRO®-PON W 578	New technology. High molecular weight dispersing agent. Stabilizes a high concentration of small size particles of insoluble micronutrients into water.
SYNTHRO®-PON 9 TDK	Wetting and dispersing agent. Boosts the SYNTHRO®-PON W 578 efficiency to achieve the highest possible concentration of insoluble micronutrients.
MODAREZ® SW 452	Powerful wetting agent. Reduces the surface tension of water-based formulations. Provides strong efficiency on leaves.

DEFOAMERS

Silicone based

MOUSSEX® 9149 SE	Modified polysiloxane. Very strong defoaming effect over a very wide range of pH.
MOUSSEX® 397 SL	100% active matter polysiloxane. EPA 4a and EPA 4b compliant.

Vegetable oil

MOUSSEX® 7141 HL-V	Concentrated non-ionic vegetable oil based. Efficient in a wide range of pH.
MOUSSEX® 7143 HE-V	Non-ionic vegetable oil emulsion. Efficient in a wide range of pH, easier to post-added.
MOUSSEX® 9128 CL Conc	Based on renewable raw material. Very efficient in acidic pH.

RHEOLOGY MODIFIERS

SYNTHRO®-THIX 928 S	Liquid rheology modifier for low to high polarity oil based systems. Very good anti-settling and anti-sagging properties.
SYNTHRO®-THIX 633	Hydrophobic Alkali Swellable Emulsion (HASE) polyacrylate. Very good anti-settling and anti-sagging properties. Forms a stable gel between pH 8 to 12.

RESINS

PROX® AMB 328 G	Aqueous emulsion of a vinyl-acrylic copolymer. Gives a flexible film. Provides good compatibility and good adhesion on most substrates.
PROX® AM 157	Anionic acrylic resin in emulsion. Provides fast drying films.





SYNTHRON

MEMBER OF PROTEX INTERNATIONAL

WORLDWIDE MAIN LOCATIONS

AMERICA

Brazil - PROX DO BRAZIL
USA - MACE POLYMERS & ADDITIVES Inc.
USA - NORTHERN SPECIALTY CHEMICALS Inc.
USA - PROX-CHEM AMERICA Inc.

ASIA

China - SINO PROX Chemicals GAOYAO Ltd
China - SHANDONG PROX CHEM
China - SUZHOU PROX CHEM
Hong Kong - PROX-ASIA Ltd
Indonesia - PT PRODIAN CHEMICALS
South Korea - PROTEX KOREA Co Ltd
Taiwan - HERZER Co. Ltd
Thailand - THAIPROX Ltd

EUROPE

Austria - PROTEX WARENHANDELS GmbH	Netherlands - PROTEX NEDERLAND BV
Belgium - PROTEBEL	Portugal - PROX LDA
Denmark - PROX KEMI APS	Spain - QUIMOPROX S.L.
France - SYNTHRON	Sweden - PROTEX SVERIGE AB
Germany - PROTEX EXTROSA	Switzerland - PROTEX-CHIMIE S.A.
Italy - PROXITALIA PRODOTTI CHIMICI Srl	United Kingdom - PROTEX CHEMICALS Ltd

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