

DISSOLVINE E-FE-13

1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY/UNDERTAKING

Product label name Ethylenediaminetetraacetic acid, ferric sodium complex, trihydrate, approx. 100%
Supplier Akzo Nobel Functional Chemicals bv
Stationsplein 4
PO Box 247
NL-3800 AE Amersfoort
Tel.: +31 334676767
Emergency telephone + 31 570679211 (Fax. + 31 570679801)
Akzo Nobel Chemicals-Deventer-NL
Intended use chelating agent plant nutrient

2. COMPOSITION/INFORMATION ON INGREDIENTS

This product is to be considered as a substance in conformance to EC directives

Information on hazardous ingredients

Chemical description Ethylenediaminetetraacetic acid, ferric sodium complex, trihydrate, approx. 100%

Composition / information on ingredients

Number	% w/w	CAS-number	Chemical name	
1	86-90	15708-41-5	Ethylenediaminetetraacetic acid, ferric-sodium complex	
Number	EC-number	Annex-1 number	Symbol(s)	Risk-phrase(s)
1	239-802-2		none	none

Other information Balance: water

3. HAZARDS IDENTIFICATION

Not classified as hazardous according to the EEC Dangerous Substance Directive and Dangerous Preparation Directive

4. FIRST AID MEASURES

Symptoms and effects No typical symptoms and effects known.

First aid

General In all cases of doubt, or when symptoms persist, seek medical attention.
Inhalation Dust may be irritating to the respiratory tract and cause symptoms of bronchitis. Move to fresh air. If symptoms persist, seek medical advice
Skin Take off contaminated clothing immediately. Wash immediately with soap and water. Launder clothes before reuse.
Eye Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.
Ingestion Rinse mouth, give water to drink.

Advice to physician No additional information available

5. FIRE-FIGHTING MEASURES

Extinguishing media waterspray, foam, Carbon dioxide, dry chemical powder

Unsuitable extinguishing media none known.

Special exposure hazards In case of fire and/or explosion do not breathe fumes.

Hazardous decomposition/ Nitrous gases may be produced

combustion products

Protective equipment Use self-contained respiratory equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions For personal protection see Section 8

Environmental precautions Collect as much as possible in a clean container for (preferable) reuse or disposal.

Methods for cleaning up Flush remainder with water (Absorb the remainder with e.g. vermiculite). See also Section 13.

7. HANDLING AND STORAGE

Handling Avoid dust generation.

Fire and explosion prevention In certain concentrations the product may form an explosive dust-air mixture.

Storage requirements No specific recommendations

Other information Protect product from moisture and wet air. Keep container tightly closed and dry

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	No specific recommendations
Exposure limits	No exposure limits have been established for this material
Personal protection	
Respiratory	In case of dust formation use dust mask. Dust exposure limits have to be respected.
Hand	For permanent (>480 minutes), full contact use, 100% nitrile gloves conforming to EN 374, e.g. KCL Dermatrill 740 are recommended. If used under conditions other than given above it is recommended that a supplier of CE approved gloves is contacted. These recommendations are only applicable to the chemical as supplied by Akzo Nobel; if mixed with or dissolved in other substances please contact a supplier of CE approved gloves (e.g. KCL International +49 66 59870, fax +49 6659 87155).
Eye	The usual precautions for handling chemicals should be observed.
Skin and body	The usual precautions for handling chemicals should be observed.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	powder (25 °C)
Colour	yellow - green
Odour	odourless
Boiling point/range	not applicable
Melting point/range	Decomposes prior to melting.
Flash point	not applicable
Flammability	no
Autoignition temperature	>200°C (glowing of 5 mm product layer)
Explosive properties	no
Explosion limits	Lower Explosion Limit $\geq 40 \text{ g/m}^3$
Oxidizing properties	no
Vapour pressure	not applicable
Density	not applicable
Bulk density	900-1000 kg/m ³
Solubility in water	approx. 90 g/l
Solubility in other solvents	not determined
pH value	4-5.5 (1% solution)
Partition coefficient n-octanol/water	Log Pow < 0
Relative vapour density (air=1)	not applicable
Viscosity	not applicable

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage and handling conditions (see section 7)
Conditions to avoid	Reaction with strong oxidizing agents. Product layer on hot surface might cause glowing or autoignition.
Materials to avoid	none known
Hazardous decomposition products	Emits toxic fumes under fire conditions (nitrous gases (NO _x)).

11. TOXICOLOGICAL INFORMATION

Name	Ethylenediaminetetraacetic acid, ferric-sodium complex
Acute toxicity	
Oral LD50	rat: >5000 mg/kg (Akzo Nobel E-file)
Irritation	
Skin	Non-irritating (Akzo Nobel E-file)
Eye	Non-irritating (Akzo Nobel E-file)

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12. ECOLOGICAL INFORMATION

Name	Ethylenediaminetetraacetic acid, ferric-sodium complex
Ecotoxicity	
fish	LD50 96h >100 mg/l (Oncorhynchus mykiss) (Akzo Nobel E-file)
daphnia	EC50 48h >100 mg/l (Daphnia magna) (Akzo Nobel E-file)
algae	EC50 72h >100 mg/l (Pseudokirchneriella subcapitata) (Akzo Nobel E-file)
Fate	
Degradation Abiotic	photodegradable
Degradation Biotic	Not readily biodegradable

13. DISPOSAL CONSIDERATIONS

Product	According to local regulations.
Contaminated packaging	No specific recommendations.

14. TRANSPORT INFORMATION

Land transport (ADR/ RID)

ADR class	not restricted	ADR Classification Code	not relevant / not relevant
RID class	not restricted	ADR/RID packing group	
Hazard Identification No.	none	Substance Identification No.	none
TREM-Card	not relevant	UN number	not relevant
Proper Shipping Name	not relevant		

Sea transport (IMDG-code/ IMO)

IMO/IMDG code	not restricted	Class	not restricted
Packing group	none	UN number	none
EMS	not relevant	Subsidiary Risk	not relevant
Marine pollutant	no		
Proper Shipping Name	not relevant		

Air transport (ICAO-TI/ IATA-DGR)

ICAO-TI/IATA-DGR		UN number	none
Class	not restricted	Packing group	none
Proper Shipping Name	not relevant		
Other information	Keep away from: aluminium + humidity / water		

15. REGULATORY INFORMATION

Chemical description	Ethylenediaminetetraacetic acid, ferric sodium complex, trihydrate, approx. 100%
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Labelling according to EC directives

EC-number	not applicable
Symbol(s)	none
R(isk) phrase(s)	none
S(afety) phrase(s)	none
Wassergefährdungsklasse (WGK)	1 (VwVwS Anhang 3)

16. OTHER INFORMATION

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.

R-phrase information

Chemical name	Risk-phrase(s)
Ethylenediaminetetraacetic acid, ferric-sodium complex	none none

SAFETY DATA SHEET
According to EC-directive 2001/58/EC

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History

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