



SAFETY DATA SHEET
According to Regulation (EC) No. 1907/2006

DISSOLVINE H-FE-13

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

Product label name Hydroxyethylethylenediaminetriacetic acid, ferric complex	
Supplier Akzo Nobel Functional Chemicals bv Stationsstraat 77 PO Box 247 NL-3800 AE Amersfoort Tel.: +31 334676767	
E-mail address of person responsible for safety data sheet SDS_chelates@AkzoNobel.com	
Emergency telephone + 31 570679211 (Fax. + 31 570679801) Akzo Nobel Chemicals-Deventer-NL	
Intended use chelating agent, plant nutrient	
Date of last issue / Revision # 2007/05/31 / 0.19	

2. HAZARDS IDENTIFICATION

Not classified as hazardous according to the EEC Dangerous Substance Directive and Dangerous Preparation Directive
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3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is to be considered as a substance in conformance to EC directives			
Information on hazardous ingredients			
Chemical description Hydroxyethylethylenediaminetriacetic acid, ferric complex			
Composition / information on ingredients			
Number	% w/w	CAS-number	Chemical name
1	78 - 80	017084-02-5	Hydroxyethylethylenediaminetriacetic acid, ferric complex

	Annex-1 number	EC-number	Symbol(s)	Risk-phrase(s)
1		241-142-5		none

Other information Balance: non-hazardous ingredients.

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.

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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. Do NOT induce vomiting. Seek medical advice after significant exposure.

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.

Hazardous decomposition/ combustion products

Nitrous gases may be produced

Protective equipment

Use self-contained respiratory equipment.

Fire and explosion hazard

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

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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls

No specific recommendations

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 Dermatril 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

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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.

In this country no exposure limit has been established

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance microgranular (25 °C)
Colour red brown
Odour odourless
Boiling point/range not applicable
Melting point/range Decomposes prior to melting.
Flash point not applicable
Flammability no
Explosive properties no
Oxidising properties no
Vapour pressure not applicable
Density not applicable
Bulk density 400 - 600 kg/m ³
Solubility in water approx. 700 g/l
Solubility in other solvents not determined
pH value 6 - 7 (1 % solution)
Partition coefficient n-octanol/water Log Pow < 0
Relative vapour density (air=1) not applicable
Viscosity not applicable
Autoignition temperature >200°C (glowing temperature of 5 mm product layer)

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Explosion limits

Lower Explosion Limit $\geq 40 \text{ g/m}^3$

10. STABILITY AND REACTIVITY

Conditions to avoid

Reaction with strong oxidising agents. Product layer on hot surface might cause glowing or autoignition.

Stability

Stable under recommended storage and handling conditions (see section 7)

Incompatibles

none known

Decomposition

Emits toxic fumes under fire conditions (nitrous gases (NO_x))

11. TOXICOLOGICAL INFORMATION

Hydroxyethylethylenediaminetriacetic acid, ferric complex

Acute toxicity

Oral LD50

rat: $>2547 \text{ mg/kg}$ (Lit.)

Irritation

Skin

Non-irritating (30%, Lit.)

Eye

Slightly irritating to eyes (Lit.)

12. ECOLOGICAL INFORMATION

Hydroxyethylethylenediaminetriacetic acid, ferric complex

Ecotoxicity

fish

96h-LC50 (Lepomis macrochirus) 2155 mg/l (Lit.)

Fate

Degradation Biotic

Not readily biodegradable (Lit.)

13. DISPOSAL CONSIDERATIONS

Product

According to local regulations.

Contaminated packaging

No specific recommendations.

14. TRANSPORT INFORMATION

Land transport

Class

not restricted

Classification Code

not relevant / not relevant

RID class

not restricted

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Hazard Identification No. none
Substance Identification No. none
TREM-Card or ERG number not relevant
UN number not relevant
Proper Shipping Name not relevant

<i>Sea transport (IMDG-code/ IMO)</i>
Class not restricted
Packing group none
UN number none
EMS not relevant
Marine pollutant no
Proper Shipping Name not relevant

<i>Air transport (ICAO-TI/ IATA-DGR)</i>
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

Product label name Hydroxyethylethylenediaminetriacetic acid, ferric complex
Labelling according to EC directives
EC-number not applicable

R(isk) phrase(s)



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Code	Description
none	none

S(afety) phrase(s)	
Code	Description
none	none
German Water Hazard Class (WGK) 2 (Internal assessment)	

16. OTHER INFORMATION

R-phrase information		
Chemical name	R(isk) phrase(s)	
Hydroxyethylethylenediaminetriacetic acid, ferric complex	none	none

History
Date of printing/ pdf file generated 2007/10/30
Revision 0.19
Composed by R. Borgmann-Strahsen Drs. M. Heus
Changes were made in section 1, 2, 3
<small>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.</small>