

According to Regulation (EC) No. 1907/2006

## DISSOLVINE D-FE-6

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

<b>Product label name</b> Diethylenetriaminepentaacetic acid, ferric diammonium complex, 52% aqueous solution	
<b>Supplier</b> Akzo Nobel Functional Chemicals bv Stationsstraat 77 PO Box 247 NL-3800 AE Amersfoort Tel.: +31 334676767	
<b>E-mail address of person responsible for safety data sheet</b> SDS_chelates@AkzoNobel.com	
<b>Emergency telephone</b> T +31570679211 F +31570679801 AkzoNobel Chemicals-Deventer-NL	
<b>Intended use</b> plant nutrient	
<b>Date of last issue / Revision number</b> 2009/08/25 / 1.06	

### 2. HAZARDS IDENTIFICATION

Non-hazardous according to Worksafe Australia criteria
--

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on hazardous ingredients			
<b>Chemical description</b> Diethylenetriaminepentaacetic acid, ferric diammonium complex, 52% aqueous solution			
<b>Composition / information on ingredients</b>			
Number	% w/w	CAS-number	Chemical name
1	51 - 55	085959-68-8	Diethylenetriaminepentaacetic acid, ferric-diammonium complex

	Index-No.	EC-number	Symbol(s) (EU classification)	Risk-phrase(s)
1		289-064-0		none
<b>Other information</b> Balance: water				

### 4. FIRST AID MEASURES

<b>Symptoms and effects</b> No typical symptoms and effects known.
<b>First aid</b>
<b>General</b> In all cases of doubt, or when symptoms persist, seek medical attention.
<b>Inhalation</b> Not likely to occur. Move to fresh air, rest, half upright position, loosen clothing.

According to Regulation (EC) No. 1907/2006

## DISSOLVINE D-FE-6

<b>Skin</b> Take off contaminated clothing immediately. Wash immediately with soap and water. Launder clothes before reuse
<b>Eye</b> Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.
<b>Ingestion</b> Rinse mouth, give water to drink.

**Advice to physician**  
No additional information available

### 5. FIRE-FIGHTING MEASURES

<b>Extinguishing media</b> ( preferably ) water
<b>Unsuitable extinguishing media</b> none known.
<b>Hazardous decomposition / combustion products</b> Nitrous gases may be produced
<b>Protective equipment</b> Use self-contained respiratory equipment.
<b>Fire and explosion hazard</b> In case of fire and/or explosion do not breathe fumes.

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b> For personal protection see Section 8
<b>Environmental precautions</b> Collect as much as possible in a clean container for (preferable) reuse or disposal.
<b>Methods for cleaning up</b> Flush remainder with water ( Absorb the remainder with e.g. vermiculite ). See also Section 13.

### 7. HANDLING AND STORAGE

<b>Handling</b> The usual precautionary measures for handling chemicals should be observed
<b>Fire and explosion prevention</b> No specific recommendations
<b>Storage requirements</b> Avoid contact with: aluminium, zinc, nickel, copper and copper alloys. Store in: PVC, PE, Stainless steel, Bituminized tanks. Keep at temperature not exceeding 40°C. The thermal stability depends on temperature and time of exposure.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Engineering controls</b> The usual precautionary measures for handling chemicals should be observed	
<b>Personal protection</b> <table border="1"><tr><td><b>Respiratory</b> No specific recommendations</td></tr></table>	<b>Respiratory</b> No specific recommendations
<b>Respiratory</b> No specific recommendations	

According to Regulation (EC) No. 1907/2006

## DISSOLVINE D-FE-6

<b>Hand</b>
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 dissolved in other substances please contact a supplier of CE approved gloves (e.g. KCL International +49 66 59870, fax +49 6659 87155).
<b>Eye</b>
The usual precautions for handling chemicals should be observed.
<b>Skin and body</b>
The usual precautions for handling chemicals should be observed.

In this country no exposure limit has been established

### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>
liquid ( 25 °C )
<b>Colour</b>
red brown
<b>Odour</b>
slightly ammonia like
<b>Boiling point/range</b>
105 - 110°C
<b>Melting point/range</b>
not applicable
<b>Flash point</b>
not applicable (aqueous solution)
<b>Flammability</b>
not applicable
<b>Explosive properties</b>
not applicable
<b>Oxidizing properties</b>
no
<b>Vapour pressure</b>
same as water (aqueous solution)
<b>Density</b>
1150 - 1380 kg/m <sup>3</sup>
<b>Bulk density</b>
not applicable
<b>Solubility in water</b>
Completely miscible
<b>Solubility in other solvents</b>
not determined
<b>pH value</b>
6 - 7 ( 1 % solution )

According to Regulation (EC) No. 1907/2006

## DISSOLVINE D-FE-6

<b>Partition coefficient n-octanol/water</b> Log Pow < 0
<b>Relative vapour density (air=1)</b> same as water
<b>Viscosity</b> not determined
<b>Autoignition temperature</b> not applicable
<b>Explosion limits</b> not applicable
<b>Other information</b> Crystallization point/range < -10°C

### 10. STABILITY AND REACTIVITY

<b>Conditions to avoid</b> Reaction with strong oxidizing agents.
<b>Stability</b> Stable under recommended storage and handling conditions (see section 7)
<b>Incompatibles</b> Aluminium, nickel, zinc, copper and copper alloys.
<b>Hazardous decomposition products</b> Emits toxic fumes under fire conditions (nitrous gases (NO <sub>x</sub> ))

### 11. TOXICOLOGICAL INFORMATION

No experimental toxicological data of the product as such available. From structurally related products the following may be expected;
--

### 12. ECOLOGICAL INFORMATION

No experimental ecological data are available on the preparation as such. From structurally related products the following may be expected;
---

### 13. DISPOSAL CONSIDERATIONS

<b>Product</b> According to local regulations.
<b>Contaminated packaging</b> No specific recommendations.

### 14. TRANSPORT INFORMATION

<b>Land transport</b>
<b>Class</b> 8
<b>Classification Code</b> C9
<b>RID class</b> 8
<b>Packing group</b> III

According to Regulation (EC) No. 1907/2006

## DISSOLVINE D-FE-6

<b>Hazard Identification No.</b> 80
<b>Substance Identification No.</b> 1760
<b>UN number</b> 1760
<b>Proper shipping name</b> Corrosive liquid, N.O.S. (Contains Diethylenetriaminepentaacetic acid, ferric-diammonium complex)
<b>Other information</b> Corrosive to metals

<b>Sea transport (IMO/ IMDG-code)</b>
<b>Class</b> 8
<b>Packing group</b> III
<b>UN number</b> 1760
<b>EMS</b> F-A, S-B
<b>Marine pollutant</b> no
<b>Proper shipping name</b> Corrosive liquid, n.o.s. (Contains Diethylenetriaminepentaacetic acid, ferric-diammonium complex)
<b>Other information</b> Corrosive to metals

<b>Air transport (ICAO-TI / IATA-DGR)</b>
<b>UN number</b> 1760
<b>Class</b> 8
<b>Packing group</b> III
<b>Proper shipping name</b> Corrosive liquid, n.o.s. (Contains Diethylenetriaminepentaacetic acid, ferric-diammonium complex)
<b>Other information</b> Corrosive to metals

### 15. REGULATORY INFORMATION

<b>Product label name</b> Diethylenetriaminepentaacetic acid, ferric diammonium complex, 52% aqueous solution
<b>Labelling according to EC directives</b>
<b>EC-number</b> not applicable



According to Regulation (EC) No. 1907/2006

## DISSOLVINE D-FE-6

R(isk) phrase(s) (EU classification)	
Code	Description
none	none

S(afety) phrase(s) (EU classification)	
Code	Description
none	none

<b>German Water Hazard Class (WGK)</b> 2 ( Internal assessment )
---

### 16. OTHER INFORMATION

R-phrase information		
Chemical name	R(isk) phrase(s) (EU classification)	
Diethylenetriaminepentaacetic acid, ferric-diammonium complex	none	none

<b>History</b>
<b>Date of printing/ pdf file generated</b> 2009/11/06
<b>Revision</b> 1.06
<b>Composed by</b> R. Borgmann-Strahsen A. Reichwein
<b>Changes were made in section</b>  14, Land transport
<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>