

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Dissolvine D-Fe-6

Version 1

Revision Date 17.05.2016

Print Date 28.11.2017

NL / EN

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Trade name : Dissolvine D-Fe-6

Chemical characterization : Diethylenetriaminepentaacetic acid, ferric diammonium complex, 53% aqueous solution

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

Use of the Substance/Mixture : Specific use(s): Plant nutrient

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

Company : Akzo Nobel  
Functional Chemicals B.V.  
Velperweg 76  
NL 6824 BM Arnhem  
Netherlands

Telephone : +31263664433

Telefax : +31263665830

E-mail address : sds\_chelates@akzonobel.com

#### 1.4 Emergency telephone number

Emergency telephone number : 24 hours:+31 57 06 79211, CHEMTREC-USA:1-800-424-9300, CHEMTREC outside USA +1-703-527-3887, CANUTEC-CANADA:1-613-996-6666,  
化学事故应急咨询电话：国家化学事故应急响应中心 +86 532 8388 9090

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**  
Corrosive to metals, 1, H290

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

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Pictogram

:



Signal word

: Warning

Hazard statements

: H290

May be corrosive to metals.

Precautionary statements

: **Prevention:**  
P234  
**Response:**  
P390

Keep only in original container.

Absorb spillage to prevent material damage.

## 2.3 Other hazards

No further data available.

PBT and vPvB assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixtures

Remarks : No ingredients according to the criteria in Regulation (EC) No. 1907/2006 (Annex II).

**REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).**  
Status : Not applicable

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## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

General advice : Move out of dangerous area.  
Consult a physician.  
Show this safety data sheet to the doctor in attendance.

If inhaled : If breathed in, move person into fresh air.

In case of skin contact : Take off contaminated clothing and shoes immediately.  
Rinse immediately with plenty of water.

In case of eye contact : Rinse with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Never give anything by mouth to an unconscious person.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : The symptoms and effects are as expected from the hazards as shown in section 2. No specific product related symptoms are known.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

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## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 5.2 Special hazards arising from the substance or mixture

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- |                                                                                   |   |                                                                                    |
|-----------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------|
| Specific hazards during firefighting / Specific hazards arising from the chemical | : | Water spray may be ineffective unless used by experienced firefighters.            |
| Combustion products                                                               | : | Fire will produce smoke containing hazardous combustion products (see section 10). |

## 5.3 Advice for firefighters

- |                                               |   |                                                                |
|-----------------------------------------------|---|----------------------------------------------------------------|
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus. |
| Further information                           | : | Standard procedure for chemical fires.                         |

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

- |                      |   |                                                                    |
|----------------------|---|--------------------------------------------------------------------|
| Personal precautions | : | Use personal protective equipment.<br>Ensure adequate ventilation. |
|----------------------|---|--------------------------------------------------------------------|

### 6.2 Environmental precautions

- |                           |   |                                                                    |
|---------------------------|---|--------------------------------------------------------------------|
| Environmental precautions | : | Try to prevent the material from entering drains or water courses. |
|---------------------------|---|--------------------------------------------------------------------|

### 6.3 Methods and materials for containment and cleaning up

- |                                                      |   |                                                                                                                                                             |
|------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Methods for cleaning up /<br>Methods for containment | : | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal. |
|------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 6.4 Reference to other sections

- |                   |   |                                        |
|-------------------|---|----------------------------------------|
| Additional advice | : | For personal protection see section 8. |
|-------------------|---|----------------------------------------|

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## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

- |                         |   |                                                                                                                      |
|-------------------------|---|----------------------------------------------------------------------------------------------------------------------|
| Advice on safe handling | : | For personal protection see section 8.<br>Smoking, eating and drinking should be prohibited in the application area. |
|-------------------------|---|----------------------------------------------------------------------------------------------------------------------|

- |                                                 |   |                                                 |
|-------------------------------------------------|---|-------------------------------------------------|
| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection. |
|-------------------------------------------------|---|-------------------------------------------------|

### 7.2 Conditions for safe storage, including any incompatibilities

- |                                               |   |                                                                                                                                                                           |
|-----------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Requirements for storage areas and containers | : | Keep container tightly closed in a dry and well-ventilated place.<br>Store in closed dark containers made of anti-corrosive material.<br>Keep only in original container. |
| Maximum storage temperature:                  | : | 40 °C                                                                                                                                                                     |
| Other data                                    | : | No decomposition if stored and applied as directed.                                                                                                                       |

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## 7.3 Specific end use(s)

Specific use(s) : Consult the technical guidelines for the use of this substance/mixture.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Engineering controls

Effective exhaust ventilation system

#### Personal protective equipment

Respiratory protection : In the case of vapour or aerosol formation use a respirator with an approved filter.

Eye protection : Tightly fitting safety goggles

Skin and body protection : Protective suit

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.  
Wash hands before breaks and at the end of workday.

#### Environmental exposure controls

General advice : Try to prevent the material from entering drains or water courses.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Appearance

Form : liquid

Colour : red brown

Odour : odourless

Odour Threshold : Not applicable

#### Safety data

pH : 6 - 7 1% (water)

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|                                        |                                                        |
|----------------------------------------|--------------------------------------------------------|
| Melting point                          | : Not applicable                                       |
| Boiling point/boiling range            | : 105 - 110 °C                                         |
| Flash point                            | : not (in)flammable Product is not flammable (aqueous) |
| Evaporation rate                       | : No data available                                    |
| Flammability (solid, gas)              | : Not applicable                                       |
| Flammability (liquids)                 | : Not classified as a flammability hazard              |
| Lower explosion limit                  | : Not applicable                                       |
| Upper explosion limit                  | : Not applicable                                       |
| Vapour pressure                        | : similar to water                                     |
| Relative vapour density                | : similar to water                                     |
| Relative density                       | : 1,15 - 1,38                                          |
| Bulk density                           | : Not applicable                                       |
| Water solubility                       | : completely miscible                                  |
| Solubility in other solvents           | : No data available                                    |
| Partition coefficient: n-octanol/water | : log Pow: < 0                                         |
| Auto-ignition temperature              | : Not applicable                                       |
| Decomposition temperature              | : No data available                                    |
| Viscosity, dynamic                     | : No data available                                    |
| Viscosity, kinematic                   | : No data available                                    |
| Explosive properties                   | : Not explosive                                        |
| Oxidizing properties                   | : Not classified as oxidising.                         |

## 9.2 Other information

|                     |                       |
|---------------------|-----------------------|
| Corrosive to metals | : Corrosive to metals |
|---------------------|-----------------------|

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

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## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

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Stable under normal conditions.

## 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

## 10.4 Conditions to avoid

Conditions to avoid : None known.

## 10.5 Incompatible materials

Materials to avoid : Aluminium  
Zinc  
Copper alloys  
Copper  
Nickel

## 10.6 Hazardous decomposition products

Hazardous decomposition products : Carbon oxides  
nitrogen oxides (NO<sub>x</sub>)

Thermal decomposition : No data available

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## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Product information:

Further information : No further data available.

#### Test result

Acute oral toxicity : LD50: > 5 000 mg/kg  
Species: Rat  
Method: OECD Test Guideline 423

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## SECTION 12: ECOLOGICAL INFORMATION

#### Product information:

#### Ecotoxicology Assessment

Additional ecological information : None known.

### 12.1 Toxicity

#### Test result

Toxicity to fish : LC50: > 100 mg/l  
Exposure time: 96 h  
Species: Danio rerio (zebra fish)  
Read-across (Analogy)

### 12.2 Persistence and degradability

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## Product information:

Biodegradability : Result: Not readily biodegradable.

Components : No information available.

### 12.3 Bioaccumulative potential

## Product information:

Bioaccumulation : Not expected considering the low log Pow value.

Components : No information available.

### 12.4 Mobility in soil

## Product information:

Mobility : No data available

Components : No information available.

### 12.5 Results of PBT and vPvB assessment

## Product information:

PBT and vPvB assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components : No information available.

### 12.6 Other adverse effects

## Product information:

Biochemical Oxygen Demand (BOD) : No data available

Components : No information available.

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## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Product : Do not dispose of waste into sewer.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Hazardous waste  
Dispose of contents/container in accordance with local regulation.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.

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## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN number

ADN : UN 1760  
ADR : UN 1760  
RID : UN 1760



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**IMDG-Code** : UN 1760  
**IATA-DGR** : UN 1760

## 14.2 Proper shipping name

**ADN** : CORROSIVE LIQUID, N.O.S.  
(Diethylenetriaminepentaacetic acid, ferric-diammonium complex)  
**ADR** : CORROSIVE LIQUID, N.O.S.  
(Diethylenetriaminepentaacetic acid, ferric-diammonium complex)  
**RID** : CORROSIVE LIQUID, N.O.S.  
(Diethylenetriaminepentaacetic acid, ferric-diammonium complex)  
**IMDG-Code** : CORROSIVE LIQUID, N.O.S.  
(Diethylenetriaminepentaacetic acid, ferric-diammonium complex)  
**IATA-DGR** : Corrosive liquid, n.o.s.  
(Diethylenetriaminepentaacetic acid, ferric-diammonium complex)

## 14.3 Transport hazard class

**ADN** : 8  
**ADR** : 8  
**RID** : 8  
**IMDG-Code** : 8  
**IATA-DGR** : 8

## 14.4 Packing group

**ADN**  
Packing group : III  
Classification Code : C9  
Hazard Identification Number : 80  
Labels : 8  
**ADR**  
Packing group : III  
Classification Code : C9  
Hazard Identification Number : 80  
Labels : 8  
Tunnel restriction code : (E)  
**RID**  
Packing group : III  
Classification Code : C9  
Hazard Identification Number : 80  
Labels : 8  
**IMDG-Code**  
Packing group : III  
Labels : 8  
EmS Code : F-A, S-B  
**IATA-DGR**  
Packing instruction (cargo aircraft) : 856  
Packing instruction (passenger aircraft) : 852  
Packing instruction (LQ) : Y841

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Packing group : III  
Labels : 8

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : no

### ADR

Environmentally hazardous : no

### RID

Environmentally hazardous : no

### IMDG-Code

Marine pollutant : no

### IATA-DGR

Environmentally hazardous : no

## 14.6 Special precautions for user

Not applicable

## 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

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## SECTION 15: REGULATORY INFORMATION

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Major Accident Hazard : Seveso Directive  
Legislation : 2012/18/EU  
Not applicable

#### Notification status

TSCA : YES. All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption.  
NDSL : YES. This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL.  
Diethylenetriaminepentaacetic acid, ferric-diammonium complex  
AICS : YES. On the inventory, or in compliance with the inventory  
NZIoC : YES. On the inventory, or in compliance with the inventory  
ENCS : YES. On the inventory, or in compliance with the inventory  
ISHL : YES. On the inventory, or in compliance with the inventory  
KECI : YES. On the inventory, or in compliance with the inventory  
PICCS : YES. On the inventory, or in compliance with the inventory  
IECSC : YES. On the inventory, or in compliance with the inventory

For explanation of abbreviation see section 16.

#### Further information

This product is to be considered as a preparation according to EU-legislation.

## 15.2 Chemical safety assessment

Product information : A Chemical Safety Assessment has been carried out for this

substance.

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## SECTION 16: OTHER INFORMATION

### Full text of H-Statements referred to under sections 2 and 3.

H290 : May be corrosive to metals.

### Classification procedure:

Corrosive to metals, 1, H290, On basis of test data.

### Full text of other abbreviations

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; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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