

According to Regulation (EC) No. 1907/2006

DISSOLVINE E-CA-10

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

Product label name Ethylenediaminetetraacetic acid, calcium disodium 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 T +31570679211 F +31570679801 AkzoNobel Chemicals-Deventer-NL	
Intended use chelating agent plant nutrient	
Date of last issue / Revision number 2009/08/25 / 0.20	

2. HAZARDS IDENTIFICATION

Non-hazardous according to Worksafe Australia criteria
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3. COMPOSITION/INFORMATION ON INGREDIENTS

Information on hazardous ingredients			
Chemical description Ethylenediaminetetraacetic acid, calcium disodium complex			
Composition / information on ingredients			
Number	% w/w	CAS-number	Chemical name
1	88 - 93	000062-33-9	Ethylenediaminetetraacetic acid, calcium-disodium complex

	Index-No.	EC-number	Symbol(s) (EU classification)	Risk-phrase(s)
1		200-529-9		none
Other information Balance: water				

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

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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.
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 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.

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

Dust (general)		
Time Weighted Average (TWA)	10 mg/m ³	inhalable dust.
Time Weighted Average (TWA)	4 mg/m ³	respirable dust.

9. PHYSICAL AND CHEMICAL PROPERTIES

<p>Appearance (free flowing) microgranular (25 °C)</p>
<p>Colour white</p>
<p>Odour odourless</p>
<p>Boiling point/range not applicable</p>
<p>Melting point/range Decomposes prior to melting</p>
<p>Flash point not applicable</p>
<p>Flammability no</p>
<p>Explosive properties no</p>
<p>Oxidizing properties no</p>
<p>Vapour pressure not applicable</p>
<p>Density not applicable</p>
<p>Bulk density 650-850 kg/m³</p>
<p>Solubility in water approx. 800 g/l</p>
<p>Solubility in other solvents not determined</p>

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pH value 6.5-7.5 (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)
Explosion limits Lower Explosion Limit $\geq 40 \text{ g/m}^3$

10. STABILITY AND REACTIVITY

Conditions to avoid Reaction with strong oxidizing 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.
Hazardous decomposition products Emits toxic fumes under fire conditions (nitrous gases (NO _x)).

11. TOXICOLOGICAL INFORMATION

Ethylenediaminetetraacetic acid, calcium-disodium complex
Acute toxicity
Oral LD50 rat: >5000 mg/kg (Lit.)

12. ECOLOGICAL INFORMATION

Ethylenediaminetetraacetic acid, calcium-disodium complex
Fate
Degradation Biotic Not readily biodegradable

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

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RID class not restricted
Hazard Identification No. none
Substance Identification No. none
UN number not relevant
Proper shipping name not relevant

Sea transport (IMO/ IMDG-code)
Class not restricted
Packing group none
UN number none
EMS not relevant
Marine pollutant no
Proper shipping name not relevant

Air transport (ICAO-TI / IATA-DGR)
UN number none
Class not restricted
Packing group none
Proper shipping name not relevant

15. REGULATORY INFORMATION

Product label name Ethylenediaminetetraacetic acid, calcium disodium complex
Labelling according to EC directives
EC-number not applicable

R(isk) phrase(s) (EU classification)

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Code	Description
none	none

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

German Water Hazard Class (WGK)
2 (Internal assessment)

16. OTHER INFORMATION

R-phrase information		
Chemical name	R(isk) phrase(s) (EU classification)	
Ethylenediaminetetraacetic acid, calcium-disodium complex	none	none

History
Date of printing/ pdf file generated 2009/11/06
Revision 0.20
Composed by R. Borgmann-Strahsen A. Reichwein
Changes were made in section 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>