

# Safety Data Sheet

according to Regulation (EC) No. 453/2010



## Calcium-EDTA 14%

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Trade name: Calcium-EDTA 14%  
Identifier: sodium calcium edetate  
ECHA No: 17-2119496221-41-0000  
CAS No: 62-33-9  
Chemical name: ethylenediaminetetraacetic acid calcium disodium salt

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

Use of the substance/mixture: inorganic fertilizer.

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

Van Iperen International BV  
Smidsweg 24  
3273 LK Westmaas - Nederland  
T +31 (0) 186 578 888 - F +31 (0) 186 573 452  
[info@iperen.com](mailto:info@iperen.com) - [www.vaniperen.com](http://www.vaniperen.com)

#### 1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number
Ireland (Republic of)	National Poisons Information Centre Beaumont Hospital	Beaumont Hospital Beaumont Road 9 Dublin	: +353 1 8379964
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

No hazardous product as specified in Directive 67/548/EEC and EU-GHS/CLP No 1272/2008.

#### 2.2. Label elements

Labeling according to EU-GHS/CLP No 1272/2008

P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/ container according to local legislation.

#### 2.3. Other hazards

Information for PBT or vPvB see section 12.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Name: sodium calcium edetate, ethylenediaminetetraacetic acid calcium disodium salt  
Formula:  $C_{10}H_{12}N_2O_8Na_2Ca$   
CAS No: 23411-34-9  
EC No: 200-529-9

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

General advice: The first step is to put the injured person from a contaminated environment.

If swallowed:	
1.	Rinse mouth, give 2-3 glasses of water to drink. Seek medical attention. Induce vomiting. Never give anything by mouth to an unconscious person.
2.	Until transporting the patient to the hospital to ensure peace, lying and warm.
In case of eye contact:	
1.	Rinse thoroughly with plenty of cold water.
2.	Seek medical attention.
In case of skin contact:	
1.	Rinse off with plenty of water. Remove contaminated cloths.
2.	If symptoms persist, seek medical attention.
If inhaled	
1.	Unlikely route of exposure due to the form of the product - a non-dusting microgranules.
2.	Move to fresh air. If needed, seek medical attention.

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

The most important known symptoms and effects are described in section 2.

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

Treatment: Symptomatic treatment.

## SECTION 5: Firefighting measures

<b>5.1. Extinguishing media</b>	Depending on the materials stored in the neighborhood use following extinguishing media: foam, water spray, dry chemical powder, CO <sub>2</sub> . Unsuitable extinguishing media: none known.
<b>5.2. Special hazards arising from the substance or mixture</b>	Hazardous decomposition / combustion products: produces oxides of nitrogen on combustion: CO, CO <sub>2</sub> , NO <sub>x</sub>
<b>5.3. Advice for firefighters</b>	Fire-fighters should wear suitable protective clothing such as boots, overalls, gloves, eye and face protection and breathing apparatus. Do not allow to enter fire-fighting water to surface water or groundwater.

## SECTION 6: Accidental release measures

<b>General advice:</b>	Do not flush into public water courses. Do not empty into drains, ground or surface water and soil. If the product enters drains or water, immediately inform appropriate authorities.
<b>6.1. Personal precautions, protective equipment and emergency procedures</b>	Ensure adequate ventilation. Use personal protective equipment – see section 8.
<b>6.2. Environmental precautions</b>	Do not let product enter drains. If the product enters drains or water, immediately inform appropriate authorities.
<b>6.3. Methods and material for containment and cleaning up</b>	Sweep up shovel. Contain spillage and then collect by wet-brushing and place in container for disposal according to local regulations. After removal, wash the contaminated area with water.
<b>6.4. Reference to other sections</b>	For disposal see section 13. For personal protective equipment see section 8.

## SECTION 7: Handling and storage

<b>7.1. Precautions for safe handling</b>	Avoid formation of dust. Provide appropriate exhaust ventilation at places where dust is formed. Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment according to section 8. Do not disposal to sewage system.
<b>7.2. Conditions for safe storage, including any incompatibilities</b>	Keep in original, tightly closed container in a dry well-ventilated place. Keep away from heat and source of ignition. Recommended storage temperature: -5°C till + 30°C.
<b>7.3. Specific end use(s)</b>	No data available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

According to the country-specific regulations.

### 8.2. Exposure controls

Personal protective equipment:

Eye/face protection	Use safety goggles
Skin/hands protection	Handle with protective gloves (recommended nitrile gloves, layer thickness 0,11 mm and breakthrough time > 480 minutes). Use protective clothing.
Industrial hygiene:	Handle in accordance with good industrial hygiene and safety practice. Change contaminated clothing. Avoid contact with skin. Avoid breathing dust. Wash hands after working with substance. When using do not eat or drink. Immediately remove spilled substance.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	Solid, microgranules
Colour	White
Odour	Odourless
pH value 1,0 % (w/v) solution	7,0 ± 1,0

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Melting point/freezing point	No data available
Initial boiling point	No data available
Flash point	Not applicable
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits;	Not applicable
Vapour pressure	No data available
Vapour density	No data available
Relative density	0,65 ± 0,10 g/cm <sup>3</sup>
Solubility(ies)	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	Not applicable
Explosive properties	Not applicable
Oxidizing properties	Not applicable

### 9.2 Other information

Conductivity 1% solution	3,5 ± 0,2 mS/cm in 20°C
Calcium (Ca)	10 % m/m

## SECTION 10: Stability and reactivity

**10.1 Reactivity** - the substance has low chemical reactivity.

**10.2 Chemical stability** – stable under normal conditions of use and storage.

**10.3 Possibility of hazardous reactions** - no data available

**10.4 Conditions to avoid** – keep away from heat.

**10.5 Incompatible materials** – none.

**10.6 Hazardous decomposition products** – in the event of fire produces oxides of nitrogen NO<sub>x</sub>

## SECTION 11: Toxicological information

**Acute toxicity:**

Substance name	% w/w	Method	Result	Units
Ca EDTA	100	LD <sub>50</sub> (oral, rat)	>2000	mg/kg

**Skin corrosion/irritation** - no irritating

**Serious eye damage/eye irritation** - no irritating

**Respiratory or skin sensitization** - no skin or respiratory sensitization

**Germ cell mutagenicity** - no data available

**Carcinogenicity** - no data available

**Reproductive toxicity** - no data available

**Specific target organ toxicity (STOT) - single exposure** - no data available

**Specific target organ toxicity (STOT)- repeated exposure** - no data available

**Aspiration hazard** - no data available

**Potential health effects**

No data available.

**Signs and Symptoms of Exposure**

No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

No experimental ecological data are available on the substance. Do not expect environmental problems when handled and used in accordance with the due care and attention.

**12.2 Persistence and degradability** - no data available.

**12.3 Bioaccumulative potential** - no data available

**12.4 Mobility in soil** - no data available

**12.5 Results of PBT and vPvB assessment** - PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**12.6 Other adverse effects** - no data available

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### SECTION 13: Disposal considerations

Packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system. Under [www.retrologistik.de](http://www.retrologistik.de) you will find special information on the respective national conditions as well as contact partners.

### SECTION 14: Transport information

14.1	UN number	Not applicable
14.2	UN proper shipping name	Not applicable
14.3	Transport hazard class(es)	Not applicable
14.4	Packing group	Not applicable
14.5	Environmental hazards	Not applicable
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

### SECTION 15: Regulatory information

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

- 1 Directive 67/548/EEC
2. REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC with amendments
3. COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)
4. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006; with amendments
5. *European Agreement concerning the International Carriage of Dangerous Goods by Road*
6. Regulation (EU) No 649/2012 Of The European Parliament and of The Council of 4 July 2012 concerning the export and import of hazardous chemicals.
7. Regulation (EC) No 850/2004 Of The European Parliament and of The Council Of 29 April 2004 On Persistent Organic Pollutants And Amending Directive 79/117/EEC.

#### 15.2. Chemical Safety Assessment

For this substance a chemical safety assessment was not carried out.

### SECTION 16: Other information

#### Company disclaimer

*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 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 proceed, unless specified in the text.*