

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

#### 1.1. Product identifier

Product form : Substance  
 Substance name : Mg-EDTA 6%  
 Chemical name : Ethylenediaminetetraacetic acid, magnesium-disodium complex  
 IUPAC name : magnesium(2+) ion disodium 2-({2 [bis(carboxylatomethyl)amino]ethyl} (carboxylatomethyl) amino)acetate  
 EC no : 238-372-3  
 CAS No : 14402-88-1  
 REACH registration No : 17-2119937110-52  
 Product code : 100.233.000

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

##### 1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use  
 Use of the substance/mixture : Fertilizers

##### 1.2.2. Uses advised against

No additional information available

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

Biron B.V.  
 Houtwijk 28  
 8251 GD Dronten - The Netherlands  
 T +31 (0)321 336 730 - F +31 (0)0321 337 802  
[Algemeen@biron.nl](mailto:Algemeen@biron.nl) - [www.biron.nl](http://www.biron.nl)

#### 1.4. Emergency telephone number

Emergency number : National Poisons Information Service  
 +44 870 600 6266  
 worldwide: <http://www.who.int/ipcs/poisons/centre/directory/en>

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### 2.2. Label elements

This substance is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

#### 2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Name : Mg-EDTA 6%  
 CAS No : 14402-88-1  
 EC no : 238-372-3

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Mg-EDTA 6%	(CAS No) 14402-88-1 (EC no) 238-372-3 (REACH-no) 17-2119937110-52	100	Not classified

Full text of H-phrases: see section 16

#### 3.2. Mixture

Not applicable

# Mg-EDTA 6%

## SDS = Safety Data Sheet

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### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with laboured breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.
- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
- First-aid measures after skin contact : Rinse with water. Soap may be used.
- First-aid measures after eye contact : Immediately rinse with water for a prolonged period while holding the eyelids wide open. Take victim to an ophthalmologist if irritation persists.
- First-aid measures after ingestion : Rinse mouth with water. Do not induce vomiting without medical advice. If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink. In all cases of doubt, or when symptoms persist, seek medical attention.

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

- Symptoms/injuries after inhalation : May cause respiratory irritation. Cough.
- Symptoms/injuries after skin contact : Contact during a long period may cause light irritation.
- Symptoms/injuries after eye contact : Redness of the eye tissue. mild eye irritation.

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Making extinguishing agents environment-friendly. Suitable extinguishing media. Water spray. Foam. Carbon dioxide. Dry powder.
- Unsuitable extinguishing media : Unknown.

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

- Fire hazard : Not flammable.
- Explosion hazard : No direct explosion hazard.
- Hazardous decomposition products in case of fire : On heating/burning: release of toxic and corrosive gases/vapours nitrous vapours.

#### 5.3. Advice for firefighters

- Precautionary measures fire : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to fire/heat: have neighbourhood close doors and windows.
- Firefighting instructions : Dilute toxic gases with water spray. Use water moderately and if possible collect or contain it.
- Protection during firefighting : Fire fighters have to wear suited clothing and an independent repertory device (SCBA) that covers the face completely with pressure. Clothing for fire fighters (including helmets, protective boots and gloves) according to European Regulation EN 469, give a basic protection level for an incident with chemicals.

### SECTION 6: Accidental release measures

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

- General measures : Do not get in eyes, on skin, or on clothing. Prevent soil and water pollution.

##### 6.1.1. For non-emergency personnel

- Protective equipment : Wear suitable protective clothing. Concerning personal protective equipment to use, see section 8.
- Emergency procedures : Clear the danger area. Only qualified personnel equipped with suitable protective equipment may intervene.
- Measures in case of dust release : Knock down/dilute dust cloud with water spray.

##### 6.1.2. For emergency responders

No additional information available

#### 6.2. Environmental precautions

Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.

#### 6.3. Methods and material for containment and cleaning up

- For containment : Clean spills promptly. Sweep spilled substance into containers; if appropriate, moisten first to prevent dusting. Stop leak if safe to do so.

# Mg-EDTA 6%

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Methods for cleaning up : Wash away remainder with plenty of water. Large spills: scoop solid spill into closing containers. Wash clothing and equipment after handling.

### 6.4. Reference to other sections

Concerning personal protective equipment to use, see item 8. Concerning disposal elimination after cleaning, see item 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid dust formation. Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Facilities: shower, eye shower. Do not discharge the waste into the drain. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

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

Technical measures : Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

Storage conditions : Keep container tightly closed. Store in a dry place. Protect from moisture. Store according to local legislation.

Heat and ignition sources : KEEP SUBSTANCE AWAY FROM: heat sources.

Prohibitions on mixed storage : Keep away from food, drink and animal feeding stuffs.

Storage area : Store away from heat. Store in dry, well-ventilated area.

Special rules on packaging : correctly labelled. meet the legal requirements.

Packaging materials : paper with plastic inner lining. plastics.

### 7.3. Specific end use(s)

Fertilisers.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Mg-EDTA 6% (14402-88-1)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	62500 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	30 mg/m <sup>3</sup>
Long-term - local effects, inhalation	10 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	6.25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	7.5 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	31250 mg/kg bodyweight/day
Long-term - local effects, inhalation	2.5 mg/m <sup>3</sup>
PNEC (Water)	
PNEC aqua (freshwater)	2.66 mg/l
PNEC aqua (marine water)	0.27 mg/l
PNEC aqua (intermittent, freshwater)	0.99 mg/l
PNEC (Soil)	
PNEC soil	0.192 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	59 mg/l

### 8.2. Exposure controls

Appropriate engineering controls : Facilities: shower, eye shower. Provide sufficient air exchange and/or exhaust.

Hand protection : Protective gloves

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
	Latex, Nitrile rubber	6 (> 480 minutes)			EN 374

Eye protection : Eye protection

Type	Use	Characteristics	Standard
Safety glasses	Fine dust, Dust	Protective goggles	EN 166

# Mg-EDTA 6%

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Skin and body protection : Wear suitable protective clothing  
Respiratory protection : Dust formation: dust mask

Device	Filter type	Condition	Standard
Filtering Half-face mask	Type P2		EN 143



### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state : Solid  
Appearance : Granular powder.  
Colour : White to yellow.  
Odour : Odourless.  
Odour threshold : No data available  
pH : 7  
pH solution : 1 %  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point : No data available  
Freezing point : No data available  
Boiling point : No data available  
Flash point : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : Not applicable  
Vapour pressure : No data available  
Relative vapour density at 20 °C : No data available  
Relative density : No data available  
Density : ± 650 kg/m<sup>3</sup> Bulk density  
Solubility : Soluble in water.  
Log Pow : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosive properties : Not applicable.  
Oxidising properties : Not applicable.  
Explosive limits : No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The substance has low chemical reactivity.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No additional information available

#### 10.4. Conditions to avoid

Avoid high temperatures.

#### 10.5. Incompatible materials

None under normal conditions.

#### 10.6. Hazardous decomposition products

On burning: release of harmful/irritant gases/vapours. Nitrogen oxides.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

#### Mg-EDTA 6% (14402-88-1)

LD50 oral rat > 2000 mg/kg

LC50 inhalation rat (mg/l) > 5.16 mg/l/4h

Skin corrosion/irritation : Not classified  
pH: 7

Serious eye damage/irritation : Not classified  
pH: 7

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

### SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

#### Mg-EDTA 6% (14402-88-1)

Bioaccumulative potential Not bioaccumulative.

#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Empty containers should be taken for recycle, recovery or waste in accordance with local regulation.

### SECTION 14: Transport information

Not regulated for transport

### SECTION 15: Regulatory information

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

##### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Mg-EDTA 6% is not on the REACH Candidate List

Mg-EDTA 6% is not on the REACH Annex XIV List

##### 15.1.2. National regulations

Ensure all national/local regulations are observed

Germany

# Mg-EDTA 6%

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12th Ordinance Implementing the Federal Immission Control Act - 12.BlmSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

### Netherlands

SZW-lijst van kankerverwekkende stoffen : The substance is not listed

SZW-lijst van mutagene stoffen : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : The substance is not listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : The substance is not listed

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Indication of changes:

Complete review of safety data sheet.

Abbreviations and acronyms:

CLP	CLP = Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
SDS	SDS = Safety Data Sheet
REACH	REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
PNEC	PNEC = Predicted No-Effect Concentration
DMEL	DMEL = Derived Minimal Effect level
DNEL	DNEL = Derived-No Effect Level
LC50	Median lethal concentration
LD50	Median lethal dose

Data sources

: ECHA Website: Information on Registered Substances  
Handbook of Chemistry and Physics CRC Press Inc  
Information suppliers  
BIG-database.

Other information

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SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*