

SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier

| | |
|-----------------------|--|
| Product form | : Substance |
| Trade name | : ANAFER 13 |
| Chemical name | : ethylenediaminetetraacetic acid, ferric-sodium complex |
| EC no | : 239-802-2 |
| CAS No | : 15708-41-5 |
| REACH registration No | : 05-2114597175-38 |
| Type of product | : Pure substance |
| Formula | : C10H12FeN2NaO8 |
| Synonyms | : (ethylenedinitrilo)tetraacetic acid, sodium salt, iron complex, anhydrous / acetic acid, (ethylenedinitrilo)tetra-, sodium salt, iron complex, anhydrous / CALMOSINE, anhydrous / edathamil monosodium ferric salt, anhydrous / EDTA iron(III)sodium salt, anhydrous / FERISAN, anhydrous / ferrate(1-), [[N,N' 1,2 ethanediylbis[N (carboxymethyl)glycinato]](4) N,N',O,O',O(N) ,O(N')] , sodium, (OC 6 21) , an / ferric sodium edetate, anhydrous / ferric sodium EDTA, anhydrous / ferric sodium ethylenediaminetetraacetate, anhydrous / iron monosodium EDTA, anhydrous / iron sodium ethylenediaminetetraacetate, anhydrous / monosodium ferric EDTA, anhydrous / sequestrene NaFe, anhydrous / sodium ((ethylenedinitrilo)tetraacetato)ferrate (1-), anhydrous / sodium (ethylenediaminetetraacetato) ferrate(1-), anhydrous / sodium (N,N,N',N'ethylenediaminetetraacetato) ferrate(1-), anhydrous / sodium [(ethylenedinitrilo) tetraacetato] ferrate(III), anhydrous / sodium feredetate / sodium ferric EDTA, anhydrous / sodium ferric ethylene diamine tetraacetate, anhydrous / sodium iron EDTA, anhydrous / sodium iron(III) ethylenediaminetetraacetate, anhydrous / sodiumferedetate, anhydrous / SYTRON, anhydrous |
| BIG no | : 44491 |

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

| | |
|----------------------------------|--------------------|
| Main use category | : Professional use |
| Industrial/Professional use spec | : Fertilizer |
| Use of the substance/mixture | : Agriculture. |
| Function or use category | : Fertilisers |

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Anorel NV
 Lintsesteenweg 632
 2540 Hove
 T +3234880233
anorel@anorel.net - www.anorel.net

1.4. Emergency telephone number

| Country | Organisation/Company | Address | Emergency number | Comment |
|---------|--|--|--|---------|
| Greece | Poisons Information Centre Children's Hospital "Aglaia. Kyriakou" | 11527 Athens | +30 10 779 3777 | |
| Iceland | Eitrunarmiðstöð Landspítali | Fossvogi 108 Reykjavik | +354 543 22 22 | |
| Ireland | National Poisons Information Centre Beaumont Hospital | PO Box 1297 Beaumont Road 9 Dublin | +353 1 809 2166 (public, 8am - 10pm, 7/7) | |
| Israel | Israel Poison Information Center Rambam Health Care Campus | 6 Ha'Aliya Street 31096 Haifa | +972 4 854 1900 | |

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|----------------|---|---------------------------------|----------------|--|
| Malta | Medicines & Poisons Info Office | Mater Dei Hospital MSD Msida | +356 2545 6504 | |
| United Kingdom | National Poisons Information Service (Cardiff Centre) Gwenwyn Ward, Llandough Hospital | Penarth CF64 2XX Cardiff | 0844 892 0111 | UK only, Monday to Friday, 08.00 to 18.00 hours |

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EN (English)

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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

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

Security closing plug for children : No

Tactile warning : No

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name : Fe-
EDTA13%
CAS No : 15708-41-5
EC no : 239-802-2

| Name | Product identifier | % |
|------------|---|-----|
| Fe-EDTA13% | (CAS No) 15708-41-5 (EC no) 239-802-2 (REACH-no) 05-2114597175-38 | 100 |

Full text of H-statements: see section 16

3.2. Mixture

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Unconscious: maintain adequate airway and respiration. Check the vital functions. 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). Seek medical advice. Call a physician if irritation develops and persists.

First-aid measures after inhalation : Respiratory problems: consult a doctor/medical service. Remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Rinse with water. Soap may be used. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : Rinse eyes with water as a precaution. Consult an ophthalmologist if irritation persists.

First-aid measures after ingestion : Rinse mouth out with water. Victim is fully conscious: immediately induce vomiting. Call a POISON CENTER or doctor/physician if you feel unwell. Ingestion of large quantities: immediately to hospital.

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

Symptoms/injuries after inhalation : Coughing. Slight irritation.

Symptoms/injuries after skin contact : Slight irritation. Red skin.

Symptoms/injuries after eye contact : Slight irritation.

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| Symptoms/injuries after ingestion | : On ingestion in large quantities : Gastrointestinal pain. Abdominal pain, nausea. Irritation of the gastric/intestinal mucosa. |
| Chronic symptoms | : Repeated contact. Skin rash/inflammation. Cardiac and blood circulation effects. |

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Water spray. Foam. Dry powder. Carbon dioxide. |
| Unsuitable extinguishing media | : None known. |

5.2. Special hazards arising from the substance or mixture

| | |
|------------------|-------------------------------|
| Fire hazard | : Non combustible. |
| Explosion hazard | : No direct explosion hazard. |

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Precautionary measures fire | : Exposure to fire/heat: keep upwind. Exposure to fire/heat: consider evacuation. Exposure to heat: have neighbourhood close doors and windows. |
| Firefighting instructions | : Avoid (reject) fire-fighting water to enter environment. Dilute toxic gases with water spray. |
| Protection during firefighting | : Heat/fire exposure: compressed air/oxygen apparatus. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

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|----------------------------------|--|
| Protective equipment | : Gloves. Protective clothing. Dust cloud production: compressed air/oxygen apparatus. |
| Emergency procedures | : Mark the danger area. Wash contaminated clothes. No naked flames. Prevent dust cloud formation, e.g. by wetting. |
| Measures in case of dust release | : In case of dust production: keep upwind. Dust production: have neighbourhood close doors and windows. |

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|--|
| For containment | : Dam up the liquid spill. Contain leaking substance, pump over in suitable containers. Knock down/dilute dust cloud with water spray. Plug the leak, cut off the supply. Consult "Materialhandling" to select material of containers. |
| Methods for cleaning up | : Clean contaminated surfaces with an excess of water. Collect spillage. Scoop solid spill into closing containers. Wash clothing and equipment after handling. |

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-------------------------------|--|
| Precautions for safe handling | : Keep away from naked flames/heat. Do not discharge the waste into the drain. Avoid dust formation. Keep container tight closed. Observe normal hygiene standards. Comply with applicable regulations. Carry out operations in the open/under local exhaust/ventilation or with respiratory protection. |
|-------------------------------|--|

7.2. Conditions for safe storage, including any incompatibilities

| | |
|-------------------------------|--|
| Heat and ignition sources | : Keep away from. Heat sources. |
| Prohibitions on mixed storage | : oxidizing materials. Keep away from. |
| Storage area | : meet the legal requirements. Store in a well-ventilated place. Store in a dry area. |
| Special rules on packaging | : meet the legal requirements. correctly labelled. closing. Secure fragile packagings in solid containers. |

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Packaging materials : Suitable packing materials, plastics, PVC, Polyethylene.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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| | | |
|----------------|----------------------------------|---|
| Belgium | Limit value (mg/m ³) | 1 mg/m ³ (Fer (sels solubles) (en Fe); Belgium; Timeweighted average exposure limit 8 h) |
| United Kingdom | WEL TWA (mg/m ³) | 1 mg/m ³ Iron salts (as Fe); United Kingdom; Timeweighted average exposure limit 8 h; Workplace exposure limit (EH40/2005) |
| United Kingdom | WEL STEL (mg/m ³) | 2 mg/m ³ Iron salts (as Fe); United Kingdom; Short time value; Workplace exposure limit (EH40/2005) |
| USA - ACGIH | ACGIH TWA (mg/m ³) | 1 mg/m ³ (Iron salts, soluble, as Fe; USA; Timeweighted average exposure limit 8 h; TLV - Adopted Value) |

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DNEL/DMEL (Workers)

Acute - systemic effects, dermal ≈ mg/kg bodyweight/day

8.2. Exposure controls

Materials for protective clothing : No data available

Hand protection : protective gloves

Eye protection : Safety glasses. In case of dust production: protective goggles

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Dust production: dust mask with filter type P2

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Microprills/powder.

Molecular mass : 367,08 g/mol

Colour : light brown. Yellow.

Odour : odourless.

Odour threshold : No data available

pH : ≥ 5,2 1% solution

Relative evaporation rate (butyl acetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : Not applicable

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

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| | |
|----------------------------------|--|
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : No data available |
| Solubility | : Soluble in water. Water: < 40 g/100ml |
| Log Pow | : -10,6 |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

| | |
|------------------|--------------------------------|
| VOC content | : 0 % |
| Other properties | : Substance has acid reaction. |

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions. On burning: release of toxic and corrosive gases/vapours hydrogen chloride carbon monoxide - carbon dioxide.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

| | |
|----------------|------------------|
| Acute toxicity | : Not classified |
|----------------|------------------|

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| | |
|---------------|------------------|
| LD50 oral rat | 5000 mg/kg (Rat) |
|---------------|------------------|

| | |
|--|---|
| Skin corrosion/irritation | : Not classified pH: ≥ 5,2 1% solution |
| Serious eye damage/irritation | : Not classified pH: ≥ 5,2 1% solution |
| 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 |

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Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - air : Not dangerous for the ozone layer.

Ecology - water : Water pollutant (surface water). Not harmful to fish. Harmful to algae.

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| | |
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| LC50 fish 1 | 2592 mg/l (LC50; 96 h) |
|-------------|------------------------|

| | |
|--------------------------------|--------------------|
| EC50 other aquatic organisms 1 | > 100 mg/l Daphnia |
|--------------------------------|--------------------|

| | |
|--------------------|------------|
| EC50 72h algae (1) | > 100 mg/l |
|--------------------|------------|

| | |
|-------------------------|------------------------|
| Threshold limit algae 1 | 76,7 mg/l (LC50; 72 h) |
|-------------------------|------------------------|

12.2. Persistence and degradability

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| | |
|-------------------------------|----------------------------|
| Persistence and degradability | Not readily biodegradable. |
|-------------------------------|----------------------------|

12.3. Bioaccumulative potential

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| | |
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| BCF fish 1 | <= |
|------------|----|

| | |
|---------|-------|
| Log Pow | -10,6 |
|---------|-------|

| | |
|---------------------------|-----------------|
| Bioaccumulative potential | Not applicable. |
|---------------------------|-----------------|

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) : Dispose in a safe manner in accordance with local/national regulations.

Waste disposal recommendations : Recycle the material as far as possible.

Additional information : Non-hazardous waste.

European List of Waste (LoW) code : 16 05 09 - discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not applicable

Proper Shipping Name (IMDG) : Not applicable

Proper Shipping Name (IATA) : Not applicable

Proper Shipping Name (ADN) : Not applicable

Proper Shipping Name (RID) : Not applicable

14.3. Transport hazard class(es)

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ADR

Transport hazard class(es) (ADR) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

ADN

Transport hazard class(es) (ADN) : Not applicable

RID

Transport hazard class(es) (RID) : Not applicable

14.4. Packing group

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Transport regulations (ADR) : Not subject

- Transport by sea

Transport regulations (IMDG) : Not subject

- Air transport

Transport regulations (IATA) : Not subject

- Inland waterway transport

No data available

- Rail transport

Transport regulations (RID) : Not subject

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

ANAFER 13 is not on the REACH Candidate List

ANAFER 13 is not on the REACH Annex XIV List VOC content : 0 %

15.1.2. National regulations

Germany

VwVwS Annex reference : Water hazard class (WGK) 2, hazard to waters

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WGK remark : Classification water polluting based on the R-phrases in compliance with Verwaltungsvorschrift wassergefährdender Stoffe (VwVwS) of 27 July 2005 (Anhang 3)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : 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

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

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