

SAFETY DATA SHEET



according to EC Directive 2001/58/EC

Date of issue: 16-11-1999

revised on: 09-05-2005

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Trade name: CRESICAL[®] Iron
Product No.: 92649

1 Company

Manufacturer/Supplier: AGLUKON Spezialdünger GmbH & Co. KG Telephone: +49 (0)211 5064-0
Address: Heerdter Landstraße 199 Telefax: +49 (0)211 5064-247
40549 Düsseldorf, Germany
Informing department: Development Special Fertilizers Telephone: +49 (0)211 5064-250

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2 Composition/Information on Ingredients

Preparation: Micronutrient fertilizer
Description: Iron chelate of ethylenediamine di (2-hydroxy phenylacetate) sodium salt
Use: Plant micronutrient source

Mayor component(s)

<u>Marking</u>	<u>CAS-No.</u>	<u>Content (%)</u>	<u>Danger symbol</u>	<u>R-phrases</u>
Ferric ethylenediamine di (2-hydroxy phenylacetate) sodium salt	16455-61-1	40 - 60	None	None

Additional information: The fertilizer composition is no hazardous preparation.

3 Hazards Identification

Hazards designation: None.
No hazardous product as specified in Directive 67/548/EEC.

Particular hazards (R-phrases): None

Harmful effects/symptoms: Does not present any particular risk, provided it is handled with good occupational hygiene and safety practice and that precaution are taken to avoid the inhalation of dust.

Physical and chemical hazards: Divided solid. Dust explosion possible when mixed with air. No specific hazard under normal conditions of use.

4 First-Aid Measures

General hints: Remove soiled clothes.

after inhalation of dust: Take out to the fresh air, rest quiet and warm. Medical assistance is necessary in case of difficulty in breathing.

after skin contact: Immediately wash affected skin regions thoroughly with soap and plenty of water. Summon doctor if necessary.

after eyes contact: Thoroughly rinse eyes with lids wide apart under running water (protect the uninjured eye, remove contact lenses). Summon eye specialist if necessary.

after ingestion: Immediately rinse the mouth with water, then drink a lot of water. Consult the doctor in case of persistent trouble.

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5 Fire-Fighting Measures

Suitable extinguishing media: All extinguishing agents can be used.
Unsuitable extinguishing media: None to our knowledge.
Special risks: Combustible. However, does not present any particular risk in the event of a fire. In the event of fire formation of nitrous gases possible.
Special equipment to protect firefighters: Do not stay in dangerous zone without suitable protecting clothes and selfcontained breathing apparatus.
Other information: Contain escaping vapours with water.
Prevent fire-fighting water from entering surface water or groundwater.

6 Accidental Release Measures

Personal precautions: Avoid generation of dusts, do not inhale dusts. Avoid substance contact. Wear closed working clothes, and in case of dust wear protecting glasses and hand protection. Remove soiled clothes.
Specific hazards: The material itself is harmless and hardly inflammable. Ambient fire may liberate hazardous vapours. If larger quantities of the product are on fire, the formation of nitrous gases, ammonia, phosphoric acid gases and aldehyde is possible.
Special equipment to protect firefighters: Do not stay in dangerous zone without suitable protecting clothes and selfcontained breathing apparatus.
Other information: Contain escaping vapours with water.
Prevent fire-fighting water from entering surface water or groundwater.
Environmental precautions: Ensure that the product does not reach the ground-water, water bodies or the drainage system.
Methods for cleaning up/taking up: Take up the product mechanically. Sweep or vacuum material when possible and shovel into a waste container.
Disposal of contaminated material as waste according to section 13.

7 Handling and Storage

Handling

Advice as to safe handling: Wear suitable protecting clothes. Avoid formation of dust. Use only in well ventilated areas. See section 8.
Advice to prevent fire and explosion: No further requirements.

Storage

Stockrooms and containers required: Temperature not below 0°C and above +100°C.
Protect the product from impurity and sunlight.
Keep containers densely closed and store in a cool dry place.
Storage together with other materials: Do not store together with food and luxury food, beverage and animal feed.

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8 Exposure Controls / Personal Protection

Exposure limits

The preparation contains no constituents with occupational exposure limits resp. biological occupational exposure limits requiring monitoring.

Control parameters for dust: 10 mg/m³, 8-hour TWA total inhalable dust
4 mg/m³, 8-hour TWA respirable dust.

Personal protective equipment

Respiratory protection: Not required. Respiratory protection necessary at dust formation.
Hand protection: Chemical resistance rubber or plastic gloves.
Eye protection: In case of dust wear safety glasses with side shields or goggles.
Skin and body protection: Closed working clothes
Preventive and hygiene measures: Do not eat and drink at work. Remove immediately soiled and soaked clothes. Wash hands and face after work.

9 Physical and Chemical Properties

Appearance

Form/physical state: Solid
Colour: Dark red / black
Odour: Product-specific

Data relevant to safety

Method:

pH (original state): Not applicable
Change in physical state: > 180° C decomposition.
Boiling point/-range: Not applicable °C
Melting point/-range: Not determined °C
Flash point: Not applicable °C
Inflammability: Not determined
Ignition temperature: Not determined °C
Self-ignition: The product is not spontaneously inflammable.
Fire-promotive properties: The product is not fire-promotive.
Explosion hazard: The product has no explosion hazardous properties.
Vapor pressure (at °C): Not determined hPa
Density (at 20°C): approx. 0,7 g/cm³
Solubility in water (at 20°C): Completely soluble m g/l

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10 Stability and Reactivity

Conditions to avoid: Avoid extremes of temperature and wet and humid conditions.
Materials to avoid: Incompatible with strong bases and oxidizing agents.
Hazardous decomposition products: No decomposition and no dangerous reactions under normal conditions of use.
Thermic decomposition products: Burning may produce carbon monoxide and/or carbon dioxide and nitrous gases.
Further information: No decomposition if correctly used. The product is stable under normal conditions.

11 Toxicological Information

Toxicological tests

Acute toxicity Toxicological data are not available.
Toxicological effects are unknown.
Property that must be anticipated on the basis with comparable preparations:
LD50 (oral, rat): >5.000 mg/kg

Further toxicological information

Other observations: May cause slight temporary irritation to the skin.
May cause slight temporary irritation to ocular mucous membranes.
General remarks: The product contains no substances classified as hazardous to health in concentrations which should be taken into account according to EC directive 88/379/EEC.

Further data

Further hazardous properties cannot be excluded.
The product should be handled with the care usual when dealing with chemicals.
No toxicological effects are to be expected when the product is handled and used with due care and attention.

12 Ecological Information

General information: Fertilizer material.
Ensure that the product does not reach the ground-water, water bodies or the drainage system.
Further ecologic data: Effects on the aquatic environment: No information available.
No ecological problems are to be expected when the product is handled and used with due care and attention.

13 Disposal Considerations

Product

Recommendation: Disposal of product rests in accordance with the official local disposal regulations.
According to european waste regulations:
Waste Code (EWC-No.): 061000
Waste Name: Wastes from the manufacture, formulation, supply and use of nitrogen chemicals, nitrogen chemical processes and fertiliser manufacture.

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Contaminated packaging

Recommendation: Disposal of contaminated packages in accordance with the local official disposal regulations.

Cleaners: Water

14 Transport Information

Surface transport No hazardous good.

River transport No hazardous good.

Sea navigation transport No hazardous good.

Air transport No hazardous good.

Further information The transport regulations are cited according to international regulations and in the form applicable in Germany (GGVS/GGVE). Possible national deviations in other countries are not considered.

15 Regulatory Information

Labelling according to EC Directives

Danger symbol and designation: No labelling duty according to the EC-Hazardous Materials Regulation.

contains R-phrases: None

contains S-phrases: None

National regulations Germany

Particular labelling of certain preparations: None

Employment limitations: None

Interference regulations: None

Classification according to VbF: None

Technical Regulations Air: Class III

Storage class according to VCI-concept: 11 Combustible solid agent.

Water pollution class: WGK 2 - water polluting preparation (own classification)

Further regulations, limitations and prohibition regulations: None

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16 Other information

Relevant R-Phrases (Number and full text)

None

Reason for alteration

General update.

Further information

Data sheet writing department: Development Special Fertilizers

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The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation. It does not represent a guarantee of the properties of the product.