

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

1.1 Product identifier

Trade name: Rasendoktor Professional Dünger für Frühjahr und Neuansaat + Spurennährstoffe

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

Application of the substance / the mixture Fertiliser

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Rasendoktor c/o Turf Handels GmbH

Am Hartboden 48

8101 Gratkorn

Austria

T: +43 3124 29064

Further information obtainable from: office@rasendoktor.at

1.4 Emergency telephone number:

+43 3124 29064

Available during office hours:

Mo - Th: 8 a.m. - 4.30 p.m.

Fr: 8 a.m. - 2.30 p.m.

Call the national emergency number!

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

The product is not classified, according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 void

Hazard pictograms void

Signal word void

Hazard statements void

Precautionary statements

P102 Keep out of reach of children.

2.3 Other hazards

May irritate eyes and skin.

Inhalation of dust can irritate the respiratory tract.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Determination of endocrine-disrupting properties

The product does not contain substances with endocrine-disrupting properties ≥ 0.1 %(w/w).

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SECTION 3: Composition/information on ingredients
3.2 Mixtures
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

[% (w/w)]

CAS: 1317-65-3 EINECS: 215-279-6	Limestone substance with a Community workplace exposure limit	1 – 10%
CAS: 7720-78-7 EINECS: 231-753-5 Index number: 026-003-00-7 RTECS: NO 8510000	iron sulphate  Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319 Aquatic Chronic 3, H412	0.03 – 0.4%
CAS: 14808-60-7 EINECS: 238-878-4 RTECS: VV 7330000	Quartz (SiO ₂ ; dust < 10 µm, alveolar)  STOT RE 1, H372	0.015 – 0.2%

SECTION 4: First aid measures
4.1 Description of first aid measures
General information:

In case of discomfort or doubt, seek medical advice.

If unconscious, use a stable lateral position and do not administer anything through mouth.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact:

Wash with plenty of soap and water.

Take off contaminated clothing and wash it before reuse.

Seek medical treatment in case of complaints.

After eye contact:

Rinse opened eye for several minutes under running water.

Remove contact lenses, if present and easy to do. Continue rinsing.

Do not rub the eye dry, as mechanical friction can also cause corneal damage.

Seek medical treatment in case of complaints.

After swallowing:

Rinse mouth.

If the patient is conscious, give small amounts of water to drink.

Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Depending on the condition of the patients, the doctor must assess the symptoms and the overall general condition.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

CO_x, SO_x, NO_x, PO_x

5.3 Advice for firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Restricted access to the affected area until cleaning work is completed.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Avoid contact with skin and eyes.

Avoid formation of dust.

Avoid breathing dust.

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Pick up mechanically.

Store to re-use.

Dispose contaminated material as waste according to section 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Keep receptacles tightly sealed.

Avoid contact with skin and eyes.

Prevent formation of dust.

Avoid breathing dust.

Use personal protective equipment as required.

Observe protective measures and safety instructions.

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Information about fire - and explosion protection: Keep ignition sources away - Do not smoke.

7.2 Conditions for safe storage, including any incompatibilities
Storage:
Requirements to be met by storerooms and receptacles:

Store in a dry, cool, well-ventilated area.

Store in accordance with local/regional/national/international regulations.

Information about storage in one common storage facility: Store away from foodstuffs.

Further information about storage conditions: Keep container tightly sealed.

Recommended storage temperature: Do not store above 50 °C.

7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection
8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:
CAS: 1317-65-3 Limestone

LEP (Spain)	Long-term value: 10 mg/m ³
VLEP (France)	Long-term value: 10 mg/m ³
WEL (Great Britain)	Long-term value: 10* 4** mg/m ³ *inhalable dust; **respirable
TWA (Italy)	Long-term value: 10 mg/m ³ (e)
WGW (Netherland)	Long-term value: 10 mg/m ³ zie bijl. 3

CAS: 1309-38-2 Magnetite

MAK (Germany)	einatembare Fraktion
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CAS: 7720-78-7 iron sulphate

LEP (Spain)	Long-term value: 1 mg/m ³ c, como Fe
WEL (Great Britain)	Short-term value: 2 mg/m ³ Long-term value: 1 mg/m ³ as Fe

CAS: 14808-60-7 Quartz (SiO₂; dust < 10 µm, alveolar)

BOELV (EU)	Long-term value: 0.1* mg/m ³ *respirable fraction
MAK (Austria)	Long-term value: 0.05 A mg/m ³ siehe Anhang III C
MAK (Germany)	alveolengängige Fraktion
LEP (Spain)	Long-term value: 0.05 mg/m ³ *Fracción resp:n,d,y

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VLEP (France)	Long-term value: 0.1 mg/m ³ pour la fraction alvéolaire
TWA (Italy)	Long-term value: 0.025 mg/m ³ A2, (j)
WGW (Netherland)	Long-term value: 0.075 mg/m ³ respirabele fractie

Regulatory information

LEP (Spain): Límites de exposición profesional para agentes químicos

VLEP (France): ED 1487 26.04.2024

WEL (Great Britain): EH40/2020

TWA (Italy): Valori Limite di Soglia

WGW (Netherland): Grenswaarden gezondheidsschadelijke stoffen

MAK (Germany): MAK- und BAT-Liste

BOELV (EU): EU 2022/431

MAK (Austria): GKV 2021, 330. Verordnung, 02.12.2024, Teil 2

DNELs**CAS: 7720-78-7 iron sulphate**

Oral	Long-term exposure - systemic effects	0.28 mg/kg bw/d (consumer)
Dermal	Long-term exposure - systemic effects	1.4 mg/kg bw/d (consumer)
		2.8 mg/kg bw/d (workers)

PNECs No data available.**Regulatory information****Additional Occupational Exposure Limit Values for possible hazards during processing:**

The national dust limits must be observed in the event of dust generation.

Additional information: The lists valid during the making were used as basis.**8.2 Exposure controls****Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Do not eat or drink while working.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Prevent formation of dust.

Avoid breathing dust.

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Respiratory protection: Use suitable respiratory protective device in case of insufficient ventilation.**Hand protection**

Protective gloves recommended.

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Material of gloves

Rubber gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection

Wear safety glasses if dust develops.

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Body protection: Protective work clothing

Environmental exposure controls Do not allow to enter sewers/ surface or ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state

Solid

Colour:

multi-colored

Odour:

Light

Odour threshold:

No information available.

Melting point/freezing point:

No information available.

Boiling point or initial boiling point and boiling range

No information available.

Flammability

Product is not flammable.

Lower and upper explosion limit

Lower:

No information available.

Upper:

No information available.

Flash point:

Not applicable.

Decomposition temperature:

No information available.

pH

Not applicable.

Viscosity:

Kinematic viscosity

Not applicable.

Dynamic:

Not applicable.

Solubility

water:

Partly soluble.

Partition coefficient n-octanol/water (log value) Not determined.

Vapour pressure:

Not applicable.

Density and/or relative density

Density at 20 °C:

0.987 g/cm³

Vapour density

Not applicable.

Particle characteristics

See section 3.

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9.2 Other information**Appearance:****Form:** Granulate**Important information on protection of health
and environment, and on safety.****Ignition temperature:** No information available.**Explosive properties:** Product does not present an explosion hazard.**Change in condition****Oxidising properties** No information available.**Evaporation rate** Not applicable.**Information with regard to physical hazard
classes****Explosives** void**Flammable gases** void**Aerosols** void**Oxidising gases** void**Gases under pressure** void**Flammable liquids** void**Flammable solids** void**Self-reactive substances and mixtures** void**Pyrophoric liquids** void**Pyrophoric solids** void**Self-heating substances and mixtures** void**Substances and mixtures, which emit flammable
gases in contact with water** void**Oxidising liquids** void**Oxidising solids** void**Organic peroxides** void**Corrosive to metals** void**Desensitised explosives** void**SECTION 10: Stability and reactivity****10.1 Reactivity** No hazardous reactions known if stored and used as prescribed.**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.**10.4 Conditions to avoid**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Avoid formation of dust.

10.5 Incompatible materials:

strong oxidizing agents

Acids

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Bases

10.6 Hazardous decomposition products:

Carbon monoxide and carbon dioxide

Sulphur oxides (SO_x)Phosphorus oxides (e.g. P₂O₅)Nitrogen oxides (NO_x)

Ammonia

SECTION 11: Toxicological information
11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**Acute toxicity** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:****CAS: 1317-65-3 Limestone**

Oral LD50 > 5,000 mg/kg (rat)

CAS: 7720-78-7 iron sulphate

Oral LD50 500 mg/kg (rat)

Primary irritant effect:**Skin corrosion/irritation** Based on available data, the classification criteria are not met.**Serious eye damage/irritation** Based on available data, the classification criteria are not met.**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.**Germ cell mutagenicity** Based on available data, the classification criteria are not met.**Carcinogenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity** Based on available data, the classification criteria are not met.**STOT-single exposure** Based on available data, the classification criteria are not met.**STOT-repeated exposure** Based on available data, the classification criteria are not met.**Aspiration hazard** Based on available data, the classification criteria are not met.**11.2 Information on other hazards****Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information
12.1 Toxicity**Aquatic toxicity:** No further relevant information available.**12.2 Persistence and degradability**

For inorganic substances/products, the methods for determining biodegradability are not applicable.

12.3 Bioaccumulative potential No further relevant information available.**12.4 Mobility in soil** No further relevant information available.**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

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12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects**Additional ecological information:****General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow product to reach ground water, water course or sewage system.

SECTION 13: Disposal considerations
13.1 Waste treatment methods**Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Only dispose of product residues via authorised companies according to local legislation.

European waste catalogue

Notes: The European Waste Catalogue (EWC) classifies waste materials and categorises them according to what they are and how they were produced. This may cause other classifications. The final decision belongs to the last user.

02 01 08*	agrochemical waste containing hazardous substances
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Uncleaned packaging:**Recommendation:**

Dispose of packaging according to regulations on the disposal of packagings.
Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information
14.1 UN number or ID number

ADR/RID/ADN, IMDG, IATA not regulated

14.2 UN proper shipping name

ADR/RID/ADN, IMDG, IATA not regulated

14.3 Transport hazard class(es)

ADR/RID/ADN, ADN, IMDG, IATA

Class not regulated

14.4 Packing group

ADR/RID/ADN, IMDG, IATA not regulated

14.5 Environmental hazards:

Not applicable.

14.6 Special precautions for user

Not applicable.

14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

UN "Model Regulation": not regulated

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SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 65

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878.

Relevant phrases

H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H372 Causes damage to organs through prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting effects.

Department issuing SDS:

UmEnA GmbH

<http://umena.at>

Email: office@umena.at

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

ATE: Acute toxicity estimate values

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3