

SAFETY DATA SHEET

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Version: 6 / DE

Print date: 20.07.23

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Replaces Version: 5 / DE

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

1.1. Product identifier

Eisenoxidbraun hell This substance/mixture contains nanoforms.

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

Use of the substance/preparation

Colourant

1.3. Details of the supplier of the safety data sheet

Address

 Deffner & Johann

 Mühläckerstraße 13

 D-97520 Röthlein

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 + 49 (0) 9723 9350-0

 Fax-Nr.:
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 info@deffner-johann.de

1.4. Emergency telephone number

+49 (0) 9723 9350-0 (Mo - Fr: 7.30 -15.00 Uhr)

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Voluntary product information following the Safety Data Sheet format This product is not classified hazardous in accordance with Regulation (EC) No 1272/2008.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

The product does not require a hazard warning label in accordance with Regulation (EC) No 1272/2008.

2.3. Other hazards

Dust loading

This substance/mixture does not contain components classified as persistent, bioaccumulative and toxic (PBT) at levels of 0.1% or higher. This substance/mixture does not contain components classified as very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher. The substance/mixture does not contain components considered to have endocrine disrupting properties for humans according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher. The substance/mixture does not contain components components considered to have endocrine disrupting properties to non-target organisms according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

pigment mixture, inorganic construction

Further ingredients

Iron hydroxide oxide CAS No. EINECS no.	-	274-00-1 7-098-5		
Particle size distribution	d10 40	nm		
Particle size distribution	d50 75	nm n		
Particle size distribution	d90 16	0 nm		
	8	3 to	25	m²/cm³
	Method	Bruna	auer, Emm	ett and Teller (BET) method using

Safety data sheet in accordance with regulation (EC) No 1907/2006

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			Nitro	gen			
Shape and aspect ratio of particles	Rods, 1:6	1:4					
Diiron trioxide							
CAS No.		1309-37-1					
EINECS no.		215-168-2					
Registration no.		01-211945	7614-35-	XXXX			
Particle size distribution	d10	35	nm				
Particle size distribution	d50	85	nm				
Particle size distribution	d90	160	nm				
		8	to	20	m²/cm³		
	Metho	od	Bruna Nitrog	-	nmett and Tel	ler (BET) metho	od using
Shape and aspect ratio of particles	Spher	roidal		5			

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of persistent symptoms consult doctor.

After inhalation

Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

Rinse mouth thoroughly with water. Call in a physician immediately and show him the Safety Data Sheet.

Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

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

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Foam, Carbon dioxide, Dry powder

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Metal oxides

5.3. Advice for firefighters

Special protective equipment for fire-fighting

Use self-contained breathing apparatus. Wear full protective suit.

Other information

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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Avoid dust formation. Do not inhale dust. Use breathing apparatus if exposed to vapours/dust/aerosol. Ensure adequate ventilation. High risk of slipping due to leakage/spillage of product. Use personal protective clothing. Refer to protective measures listed in Sections 7 and 8. Remove persons to safety.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water.

6.3. Methods and material for containment and cleaning up

Avoid raising dust. Pick up mechanically. When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Information regarding Safe handling, see Section 7. Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Provide exhaust ventilation if dust is formed. Avoid the formation and deposition of dust. Handle and open container with care. Provide suitable exhaust ventilation at the processing machines. Ensure adequate ventilation. Use breathing apparatus when transferring large quantities without exhaust ventilation facilities. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Observe the usual precautions for handling chemicals.

Advice on protection against fire and explosion

No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Hints on storage assembly

Do not store together with foodstuffs.

Storage class according to TRGS 510 Storage class according to TRGS 13 510

Non- combustible solids

Further information on storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place. Protect from direct sunlight. Protect from extreme heat and cold.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

The national general dust limit must be observed. TRGS 900: Oberserve the general dust threshold.

Derived No/Minimal Effect Levels (DNEL/DMEL)

I riiron tetraoxide		
Reference substance	Triiron tetraoxide	
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	10	mg/m³
Source	Manufacturer's data	U U
	Triiron tetraoxide	
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	10	mg/m³
Source	Manufacturer's data	Ū

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8.2. Exposure controls					
General protective and hygiene n Do not inhale dust/fumes/aerosols away from foodstuffs and beverag usual precautions for handling ch	s. Avoid contact with ges. Wash hands be	ofore breaks ar	nd after work. Us	e barrier skin cream. Obs	ime. Keep erve the
Respiratory protection If workplace limits are exceeded, mask, filter P1; Use breathing app			for this particular	job must be worn. Particl	e filter half
Hand protection Protective gloves Observe the information of the glove requirements.			v and breakthroug	h times and other workpl	ace
Eye protection Safety glasses with side protectio	on shield				
Body protection Clothing as usual in the chemical					
CTION 9: Physical and chemica	al properties				
9.1. Information on basic physica	al and chemical pro	perties			
Physical state	Powder				
Colour Odour	see tradenar characteristic				
Melting point	Characteristic				
Value	> 100	-	°(2	
Source	Manufacture	r's data			
Freezing point Remarks	not determin	ed			
Boiling point or initial boiling point					
Remarks	not determin				
Flammability not determined					
Upper and lower explosive limits		1			
Remarks Flash point	not determin	eu			
Remarks	Not applicab	le			
Ignition temperature Remarks	not determin				
Decomposition temperature Remarks	not determin	ed			
pH value					
Value Concentration/H2O	4	to %	8		
Source	Manufacture				
Viscosity					
Remarks	No data avai	lable			
Solubility(ies) Remarks	not determin	ed			
Partition coefficient n-octanol/wa Remarks	iter (log value) not determin	ed			
Vapour pressure					
Remarks	Not applicab	le			

°C

kg/l

4,4 20

Manufacturer's data

not determined

Density and/or relative density Value Temperature

Relative vapour density Remarks

Source

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Particle characteristics Remarks	This substance/m	ixture co	ntains nanof	orms.	
9.2. Other information					
Odour threshold					
Remarks	not determined				
Evaporation rate (ether = 1) :	a stalstsmusic sel				
Remarks	not determined				
Solubility in water Remarks	insoluble				
Source	Manufacturer's da	ita			
Explosive properties evaluation	not determined				
Oxidising properties Remarks	not determined				
Bulk density					
Value Other information	300	to	1000	kg/m³	
None known					
ECTION 10: Stability and reactivity	y				
10.1. Reactivity					
There are no specific test data rela	ted to reactivity availabl	le for this	product or in	ts inaredient	S.
10.2. Chemical stability	, , , , , ,			J	
When used as recommended, no h	nazardous reactions are	expecte	d		
10.3. Possibility of hazardous reac		chpeole	u.		
When used as recommended, no h		ovnooto	d		
		expecie	u.		
10.4. Conditions to avoid					
At temperatures above 80 °C the p under unfavourable conditions, ma be stored near heat sources.					
Decomposition temperature Remarks	not determined				
10.5. Incompatible materials					
No hazardous reactions when store	ed and handled accordi	ng to pre	scribed instr	uctions.	
10.6. Hazardous decomposition pr					
No dangerous decomposition prod		instructio	ns for storag	e and handl	ing are observed.
ECTION 11: Toxicological informa	ition				
11.1 Information on hazard classes	s as defined in Regula	tion (EC) No 1272/20	008	
Acute oral toxicity					
Species	rat				
LD50 Remarks	> 5000 Test conducted with a	a similar	formulation	mg/kg	
Source	Manufacturer's data	a Sirriilar			
Remarks	Based on available da	ata, the c	lassification	criteria are r	not met.
Acute dermal toxicity Remarks	Based on available da	ata, the c	lassification	criteria are r	not met.
Acute inhalational toxicity	Based on available da	ata the c	lassification	criteria are r	not met
-				uniona al C I	
Remarks			acomoaton		
-	non-irritant				
Remarks Skin corrosion/irritation					

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Serious eye damage/irritation		
evaluation	non-irritant	
Remarks	Test conducted with a similar formulation.	
Source	Manufacturer's data	
Remarks	Based on available data, the classification criter	ia are not met.
Sensitization		
Remarks	Based on available data, the classification criter	ia are not met.
Subacute, subchronic, chronic t		
Remarks Remarks	not determined	
	Repeated or prolonged inhalation of dust may le	
Remarks Remarks	Frequent persistent contact with the skin can ca Like any foreign body, particles (dust) can cause	
	Like any loreign body, particles (dust) call caust	
Mutagenicity Remarks	Based on available data, the classification criter	ia are not met
Reproductive toxicity Remarks	Based on available data, the classification criter	ia are not met
	Dased on available data, the Glassification Chief	
Carcinogenicity Remarks	Based on available data, the classification criter	ia are not met
Specific Target Organ Toxicity (5101)	
Single exposure		
Remarks	Based on available data, the classification criter	ia are not met.
Repeated exposure		
Remarks	Based on available data, the classification criter	ria are not met.
Aspiration hazard		
Based on available data, the clas	ssification criteria are not met.	
Based on available data, the class 11.2 Information on other hazard		
11.2 Information on other hazard Endocrine disrupting properties The substance/mixture does not	ds	
11.2 Information on other hazard Endocrine disrupting properties The substance/mixture does not according to REACH Article 57(f	ds with respect to humans contain components considered to have endocrine of or Regulation (EU) 2017/2100 or Regulation (EU) 2	
11.2 Information on other hazard Endocrine disrupting properties The substance/mixture does not according to REACH Article 57(f higher.	ds with respect to humans contain components considered to have endocrine of or Regulation (EU) 2017/2100 or Regulation (EU) 2	
 11.2 Information on other hazard Endocrine disrupting properties The substance/mixture does not according to REACH Article 57(f higher. CTION 12: Ecological informat 12.1. Toxicity 	ds with respect to humans contain components considered to have endocrine of or Regulation (EU) 2017/2100 or Regulation (EU) 2	
11.2 Information on other hazard Endocrine disrupting properties The substance/mixture does not according to REACH Article 57(f higher.	ds with respect to humans contain components considered to have endocrine of or Regulation (EU) 2017/2100 or Regulation (EU) 2	
 11.2 Information on other hazard Endocrine disrupting properties The substance/mixture does not according to REACH Article 57(f higher. CTION 12: Ecological informat 12.1. Toxicity General information No data available 	ds with respect to humans contain components considered to have endocrine of or Regulation (EU) 2017/2100 or Regulation (EU) 2	
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No data available

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

This substance/mixture does not contain components classified as persistent, bioaccumulative and toxic (PBT) at levels of 0.1% or higher.

This substance/mixture does not contain components classified as very persistent and very bioaccumulative (vPvB) at concentrations of 0.1% or higher.

12.6 Endocrine disrupting properties

Endocrine disrupting properties with respect to the envrionment

The substance/mixture does not contain components considered to have endocrine disrupting properties to non-target organisms according to REACH Article 57(f) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7. Other adverse effects

General information

No data available

General information / ecology

Ecological data are not available. Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Product should be taken to a suitable and authorized waste disposal site in accordance with relevant regulations and if necessary after consultation with the waste disposal operator and/or the competent Authorities.

Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off as product waste. Uncontaminated packaging may be taken for recycling.

SECTION 14: Transport information

Land transport ADR/RID

The product does not constitute a hazardous substance in land transport.

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

SECTION 15: Regulatory information

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

Water Hazard Class (Germany)

Water Hazard Class (Germany) Not water hazardous The mixture is classified as not hazardous to water, because according to Annex 1, No. 2.2 AwSV the mixture can not be classified as hazardous to water (§ 10 Part 1 No. 1 AwSV)

15.2. Chemical safety assessment

not applicable

Remarks

SECTION 16: Other information

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route AGW: Arbeitsplatzgrenzwert AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Ordinance on facilities for handling substances that are hazardous to water) BGW: Biologischer Grenzwert CAS: Chemical Abstracts Service

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DNEL: Derived no effect level EINECS: European Inventory of Existing Con ELINCS: European List of Notified Chemical GGVSee: Gefahrgutverordnung See IARC: International Agency for Research on G IATA: International Air Transport Association ICAO: International Civil Aviation Organizatio IMDG: International Maritime Code for Dange LC: Lethal concentration LD: Lethal dose MAK: Maximale Arbeitsplatz-Konzentration NOEC: No observable effect concentration NOEL: No observable effect level OECD: Organisation for Economic Co-operat OEL: Occupational exposure limit PBT: Persistent, Bioaccumulative and Toxic PNEC: Predicted no effect concentration RID: Règlement concernant le transport inter TRGS: Technische Regeln für Gefahrstoffe VDI: Verein Deutscher Ingenieure VLEP: Valeurs Limites d'exposition Professio vPvB: Very persistent and very bioaccumulat WGK: Wassergefährdungsklasse (water haze	Substances Cancer on erous Goods tion and Development mational ferroviaire de marchandises onnelle ive	dangereuses

Supplemental information

These data is based on our present knowledge and experience respectively supplier-information. This safety data sheet describes the product in regard to the requirements of safety. The information does not represent an assurance for certain properties. Existing laws and regulations are to be observed by the recipient of our products in own responsibility. It is the responsibility of the user, to determine if the product is suitable for the deliberate operational area and the respective intended purpose. A liability for damages in connection with the use of this information is excluded. Relevant changes compared with the previous version of the safety data sheet are marked with: ***