

SAFETY DATA SHEET

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Trade name: Eisenoxidgeb hell

Print date: 04.03.20

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

1.1. Product identifier

Eisenoxidgeb hell

Registration no.

Registration no. 01-2119457554-33-XXXX
CAS No. 51274-00-1

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

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1.4 Notfall-Nummer: +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

SECTION 3: Composition/information on ingredients

Chemical characterization

Iron hydroxide oxide

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!

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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

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

None known

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

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.

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.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

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

Derived No/Minimal Effect Levels (DNEL/DMEL)

Iron hydroxide oxide

Reference substance	Iron hydroxide oxide	
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/m ³
Source	Literature value	

	Iron hydroxide oxide	
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/m ³
Source	Literature value	

Conclusion/Summary: Dust Inhalable 10 mg/m³, Respirable dust 3 mg/m³

8.2. Exposure controls

General protective and hygiene measures

Do not inhale dust/fumes/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Use barrier skin cream. Observe the usual precautions for handling chemicals. Hold eye wash fountain available. Take off immediately all contaminated clothing.

Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Particle filter P2; Use breathing apparatus in dust-laden atmosphere.

Hand protection

Protective gloves
Observe the information of the glove manufacturers on permeability and breakthrough times and other workplace requirements.

Eye protection

Safety glasses with side protection shield

Body protection

Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Powder
Colour	see tradename
Odour	characteristic
Odour threshold	
Remarks	not determined
pH value	
Value	3 to 7
Concentration/H ₂ O	5 %
Remarks	Suspension in water
Source	Literature value

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Melting point

Value > 1000 °C
Method Value taken from the literature

Freezing point

Remarks not determined

Initial boiling point and boiling range

Remarks not determined

Flash point

Remarks Not applicable

Evaporation rate (ether = 1) :

Remarks not determined

Flammability (solid, gas)

not determined

Upper/lower flammability or explosive limits

Remarks not determined

Vapour pressure

Remarks not determined

Vapour density

Remarks not determined

Density

Value > 4,26 kg/l
Temperature 20 °C

Solubility in water

Value < 0,000001 g/l
Source Literature value

Solubility(ies)

Remarks not determined

Partition coefficient: n-octanol/water

Remarks not determined

Ignition temperature

Remarks not determined

Decomposition temperature

Value from 180 °C
Source Literature value

Viscosity

Remarks Not applicable

Explosive properties

evaluation not determined

Oxidising properties

Remarks not determined

9.2. Other information**Other information**

None known

SECTION 10: Stability and reactivity**10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

No hazardous reactions known.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

From approx. 180 °C conversion into Fe₂O₃.

Decomposition temperature

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Value from 180 °C
Source Literature value

10.5. Incompatible materials

No hazardous reactions when stored and handled according to prescribed instructions.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Species rat
LD50 > 10000 mg/kg
Source Literature value

Acute dermal toxicity

Remarks No data available

Acute inhalational toxicity

Species rat
LC50 > 195 mg/m³
Duration of exposure 6 h
Source Literature value
Species rat
LC50 > 195 mg/m³
Duration of exposure 2 Weeks
Source Literature value

Skin corrosion/irritation

evaluation non-irritant
Remarks Test conducted with a similar formulation.
Source Literature value
Remarks Repeated and prolonged skin contact may lead to defatting and irritation of the skin.

Serious eye damage/irritation

evaluation non-irritant
Remarks Test conducted with a similar formulation.
Remarks Eye contact with the product may lead to irritation.

Sensitization

Route of exposure dermal
Species guinea pig
evaluation non-sensitizing
Source Literature value

Subacute, subchronic, chronic toxicity

Remarks not determined
Remarks Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.

Mutagenicity

Remarks Based on available data, the classification criteria are not met.
Source Literature value

Reproductive toxicity

Remarks No data available

Carcinogenicity

Remarks No data available

Specific Target Organ Toxicity (STOT)

Remarks No data available

SECTION 12: Ecological information

12.1. Toxicity

Fish toxicity

Species zebra fish (Brachydanio rerio)
LC0 > 100000 mg/l

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Duration of exposure	96	h	
Source	Literature value		
Daphnia toxicity			
Species	Daphnia magna		
EC50	> 100		mg/l
Duration of exposure	48	h	
Method	OECD 202		
Source	Literature value		
Bacteria toxicity			
Remarks	not determined		

12.2. Persistence and degradability

General information

No data available

12.3. Bioaccumulative potential

General information

No data available

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil

General information

No data available

12.5. Results of PBT and vPvB assessment

General information

Not applicable

12.6. Other adverse effects

General information

No data available

General information / ecology

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
Remarks Derivation of WGK according to Annex 1 No. 5.2 AwSV

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15.2. Chemical safety assessment

not applicable

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
DNEL: Derived no effect level
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
GGVSee: Gefahrgutverordnung See
IARC: International Agency for Research on Cancer
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Code for Dangerous Goods
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-operation and Development
OEL: Occupational exposure limit
PBT: Persistent, Bioaccumulative and Toxic
PNEC: Predicted no effect concentration
RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses
TRGS: Technische Regeln für Gefahrstoffe
VDI: Verein Deutscher Ingenieure
VLEP: Valeurs Limites d'exposition Professionnelle
vPvB: Very persistent and very bioaccumulative
WGK: Wassergefährdungsklasse (water hazard class)

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 a 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: ***