

# SAFETY DATA SHEET

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Die in diesem Produktdatenblatt genannten Spezifikationen dienen nur zur Produktbeschreibung und beziehen sich auf den Zeitpunkt unmittelbar nach der Produktion bzw. Import des Produktes. Sie entsprechen den Angaben des Herstellers. Eine rechtsverbindliche Zusicherung bestimmter Eigenschaften oder der Eignung für einen bestimmten Einsatzzweck kann hieraus nicht abgeleitet werden. Durch unsachgemäßen Transport und / oder unsachgemäße Lagerung können sich Änderungen ergeben. Die Angaben in diesem Produktdatenblatt entbinden den Verarbeiter nicht von eigener Prüfung der Eigenschaften des Produktes und dessen Eignung für die vorgesehene Verwendung.

Safety data sheet in accor	dance with regula	tion (EC) No 1907/2006	
Trade name: Iron Oxide B	lack		Print date: 03.11.23
		Version: 8 / DE	Date revised: 16.06.2023
		Replaces Version: 7 / DE	
<b>SECTION 1: Identification</b>	of the substance/	mixture and of the company/unde	rtaking
1.1. Product identifier			
Iron Oxide Black			
Registration no.		015 077 F	
EC No.: Registration no.		215-277-5 01-2119457646-28-XXXX	
CAS No.		1317-61-9	
1.2. Relevant identified u	uses of the substand	ce or mixture and uses advised again	st
Use of the substance/pr	eparation		
Colourant			
1.3. Details of the suppli	er of the safety data	sheet	
Address			
Deffner & Johann GmbH Mühläckerstraße 13 D-97520 Röthlein Telefon-Nr.: Fax-Nr.: E-Mail-Adresse:	+ 49 (0) 9723 9350- + 49 (0) 9723 9350- info@deffner-johann	25	
1.4. Emergency telephor	ne number		
+49 (0) 9723 9350-0 (M	lo - Fr: 7.30 - 15.00 Ul	hr)	
SECTION 2: Hazards iden	tification ***		
	nation following the Sa	r <b>e</b> afety Data Sheet format cordance with Regulation (EC) No 1272	/2008.
Labelling according to			
•	equire a nazard warnir	ng label in accordance with Regulation (	EC) No 1272/2008.
2.3. Other hazards Dust loading			
***			
of 0.1% or higher. This bioaccumulative (vPvB) considered to have end 2017/2100 or Regulatio components considered	substance/mixture do at concentrations of ( ocrine disrupting prop n (EU) 2018/605 at le to have endocrine di	ponents classified as persistent, bioacc es not contain components classified as 0.1% or higher. The substance/mixture of perties for humans according to REACH vels of 0.1% or higher. The substance/n srupting properties to non-target organis ation (EU) 2018/605 at levels of 0.1% or	very persistent and very does not contain components Article 57(f) or Regulation (EU) nixture does not contain sms according to REACH Article
SECTION 3: Composition/	information on ing	gredients	
3.1. Substances			
Chemical characterization Triiron tetraoxide; Fe3C			
SECTION 4: First aid meas	sures		

4.1. Description of first aid measures

General information In case of persistent symptoms consult doctor. After inhalation

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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

#### 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. Use personal protective clothing. High risk of slipping due to leakage/spillage of product. 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

Avoid the formation and deposition of dust. Provide exhaust ventilation if dust is formed. Ensure adequate ventilation. Handle and open container with care. Provide suitable exhaust ventilation at the processing machines. 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.

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Advice on protection against fire and	explosion			
No special measures required.	-			
7.2. Conditions for safe storage, include	uding any ir	ncompatibilities		
Hints on storage assembly Do not store together with foodstuffs.				
Storage class according to TRGS 51 Storage class according to TRGS 510		Non- combus	tible solids	
Further information on storage cond Keep container tightly closed and dry heat and cold.		ell-ventilated plac	e. Protect from di	rect sunlight. Protect from extreme
ECTION 8: Exposure controls/perso	nal protec	tion		
8.1. Control parameters				
<b>Other information</b> The national general dust limit must b TRGS 900: Oberserve the general du	st threshold			
Derived No/Minimal Effect Levels (DI Type of value		No Effect Level ([		
Reference group	Worker			
Duration of exposure	Long terr			
Route of exposure	inhalative			
Mode of action Concentration	Local effe	10		mg/m³
Source		turer's data		
8.2. Exposure controls				
General protective and hygiene mean Do not inhale dust/fumes/aerosols. A away from foodstuffs and beverages. usual precautions for handling chemi	void contact Wash hand	s before breaks a	nd after work. Use	e barrier skin cream. Observe the
Respiratory protection If workplace limits are exceeded, a re Use breathing apparatus in dust-lade			l for this particular	job must be worn. Particle filter P2;
Hand protection	·			
Protective gloves Observe the information of the glove requirements.	manufacture	ers on permeabilit	y and breakthroug	gh times and other workplace
Eye protection Safety glasses with side protection sh	ield			
Body protection Clothing as usual in the chemical inde	ustry.			
ECTION 9: Physical and chemical p	operties			
9.1. Information on basic physical an	d chemical	properties		
Physical state	Powder			
Colour	black			
Odour	odourles	S		
Melting point		1000		<u>_</u>
Value Source		1000 turer's data	°(	
Freezing point				
Remarks	not deter			
Boiling point or initial boiling point a Remarks	n <mark>d boiling r</mark> not deter	-		

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not determined						
Upper and lower explosive limits Remarks	not determined					
Flash point Remarks	Not applicable					
Ignition temperature Remarks	not determined					
Decomposition temperature Remarks	not determined					
<b>pH value</b> Value Concentration/H2O Remarks Source	5 5 Suspension in wate Manufacturer's data		8			
Solubility(ies) Remarks	not determined					
Partition coefficient n-octanol/water Remarks	(log value) not determined					
Vapour pressure Remarks	No data available					
<b>Density and/or relative density</b> Value Temperature Source	4,7 20 Manufacturer's data	°C		kg/l		
Relative vapour density Remarks	not determined					
Particle characteristics Remarks	not determined					
9.2. Other information						
Odour threshold Remarks	not determined					
Evaporation rate (ether = 1) : Remarks	not determined					
Solubility in water Remarks Source	insoluble Manufacturer's data					
Explosive properties evaluation	not determined					
Oxidising properties Remarks	not determined					
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

Stable under recommended storage and handling conditions (see section 7).

#### 10.3. Possibility of hazardous reactions

When used as recommended, no hazardous reactions are expected.

#### 10.4. Conditions to avoid

At temperatures above 80 °C the product may become unstable and oxidise. This generates additional heat which, under unfavourable conditions, may result in the combustion of flammable materials. Avoid all sources of ignition: heat, sparks, open flame.

#### **Decomposition temperature**

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Remarks	no	t determine	d			
10.5. Incompatible materials						
No hazardous reactions when st	ored and h	andled acc	ordina to prescrib	ed instructions.		
10.6. Hazardous decomposition			5.1			
No dangerous decomposition pr	-	e regulatio	ns / instructions fo	r storage and har	ndling are observed.	
ECTION 11: Toxicological inforr	nation ***					
11.1 Information on hazard class			gulation (EC) No	1272/2008		
Acute oral toxicity						
Species	rat					
LD50	>	5000		mg/kg		
Source Remarks		acturer's da		fication aritaria	o not mot	
	Dased	i on avallab	le data, the classi	ncation criteria ar	e not met.	
Acute dermal toxicity Remarks	Based	l on availab	le data, the classi	fication criteria ar	e not met.	
Acute inhalational toxicity *** Remarks	Based	l on availab	le data, the classi	fication criteria ar	e not met.	
Skin corrosion/irritation	20000					
evaluation	non-irr	ritant				
Remarks			ith a similar formu	ulation.		
Source		acturer's da		<b>(</b> ; ; , ; , _ ; , _ ; , _ ,		
Remarks	Based	i on availab	le data, the classi	fication criteria ar	e not met.	
Serious eye damage/irritation evaluation	non-irr	ritant				
Remarks			vith a similar formu	ulation		
Source		acturer's da				
Remarks	Based	l on availab	le data, the classi	fication criteria ar	e not met.	
Sensitization						
Remarks	Based	l on availab	le data, the classi	fication criteria ar	e not met.	
Subacute, subchronic, chronic t						
Remarks		termined	a a a a dia balatiana		a abrania na aninatan	
Remarks Remarks			ent contact with the		o chronic respiratory	irritation.
Remarks					chanical irritation.	
Mutagenicity						
Remarks	Based	l on availab	le data, the classi	fication criteria ar	e not met.	
Reproductive toxicity			,			
Remarks	Based	l on availab	le data, the classi	fication criteria ar	e not met.	
Carcinogenicity						
Remarks		l on availab	le data, the classi	fication criteria ar	e not met.	
Specific Target Organ Toxicity (	STOT)					
Single exposure Remarks	Based	l on availab	le data, the classi	fication criteria ar	e not met.	
Repeated exposure						
Remarks	Based	l on availab	le data, the classi	fication criteria ar	e not met.	
Aspiration hazard Based on available data, the cla	ssification of	criteria are	not met.			
11.2 Information on other hazard						
Endocrine disrupting properties	with resp	ect to hum	ans			
The substance/mixture does not according to REACH Article 57(f higher.	contain co	mponents	considered to hav			

12.1. Toxicity

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General information					
Entry into the environment is to	be avoide	d.			
Fish toxicity					
Species LC0	zebra >	a fish (Brachy 10000	danio rerio)	mg/l	
Duration of exposure		96	h	mg/i	
Source	Manu	ıfacturer's da	ta		
Daphnia toxicity					
Species		inia magna		~~~/l	
EC0 Duration of exposure	>	10000 48	h	mg/l	
Method	Requ		o. 440/2008, Ar	nex C2	
Source		ifacturer's da			
Bacteria toxicity					
Species	activa	ated sludge			
EC50	>	10000		mg/l	
Duration of exposure	050	3	h		
Method Source		D 209 Ifacturer's da	ta		
		naciulei 5 ua	la		
12.2. Persistence and degradal	onity				
General information not determined					
Biodegradability					
Remarks		nethods for d ances.	etermining the t	biodegradability ar	e not applicable to inorganic
12.3. Bioaccumulative potentia		ances.			
-					
General information No data available					
Partition coefficient n-octanol/ Remarks		value) ot determined	1		
12.4. Mobility in soil					
General information No data available					
12.5. Results of PBT and vPvB	assessme	nt			
General information Not applicable					
Results of PBT and vPvB asse		components o	lassified as per	sistent, bioaccum	lative and toxic (PBT) at levels
of 0.1% or higher. This substance/mixture does n	ot contain c				
concentrations of 0.1% or high					
12.6 Endocrine disrupting prop					
Endocrine disrupting propertie The substance/mixture does no organisms according to REAC 0.1% or higher.	ot contain c	omponents c	onsidered to ha		
12.7. Other adverse effects					
General information not determined					

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#### 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

#### 15.2. Chemical safety assessment

For this substance a chemical safety assessment is not required.

#### **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 an assurance for certain properties. Existing laws and regulations are to be observed by the recipient of our products in own

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and the respective intended purpose. A li	e user, to determine if the product is suital ability for damages in connection with the evious version of the safety data sheet are	use of this information is excluded.