

SAFETY DATA SHEET

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rade name: - Zinnoberro	t				Print date: 02	.03.20
		Version: 1	/ DE		Date revised	: 20.02.202
		Replaces V	Version: -	/ DE		
ECTION 1: Identification	f the substance/mixtu	ire and of th	ne compar	ny/undertal	king	
1.1. Product identifier						
Zinnoberrot						
1.2. Relevant identified u	es of the substance or I	nixture and	uses advise	ed against		
Use of the substance/pre	paration					
Colourant						
1.3. Details of the supplie	of the safety data shee	t				
Adresse:						
Deffner & Johann Gm	Hc					
Mühläckerstraße 13 D-97520 Röthlein						
Tel.:	+49 (0) 9723 9350-0)				
Fax:	+49 (0) 9723 9350-2					
E-Mail-Adresse:	info@deffner-johanr	n.de				
1.4 Notfall-Nummer:	+49 (0) 9723 9350-0) (Mo. – Fr.	7:30 – 15:0	00 Uhr)		
ECTION 2: Hazards ident	ication					
2.1. Classification of the						
	ubstance or mixture					
	ubstance or mixture ied hazardous in accorda	nce with Reg	ulation (EC)	No 1272/200	08.	
		nce with Reg	ulation (EC)	No 1272/200	08.	
This product is not class 2.2. Label elements Hazardous component(s)	ied hazardous in accorda to be indicated on label		. ,		08.	
This product is not class 2.2. Label elements Hazardous component(s Supplemental informatio	ied hazardous in accorda to be indicated on label	(Regulation	(EC) No. 12	272/2008)	08.	
This product is not class 2.2. Label elements Hazardous component(s Supplemental informatio EUH210	ied hazardous in accorda to be indicated on label		(EC) No. 12	272/2008)	08.	
This product is not class 2.2. Label elements Hazardous component(s Supplemental informatio EUH210 2.3. Other hazards	ied hazardous in accorda to be indicated on label Saf	(Regulation	(EC) No. 12	272/2008)	08.	
This product is not class 2.2. Label elements Hazardous component(s Supplemental informatio EUH210 2.3. Other hazards Dust loading. Possible d	ied hazardous in accorda to be indicated on label Saf st explosion hazard.	(Regulation	(EC) No. 12	272/2008)	08.	
This product is not class 2.2. Label elements Hazardous component(s) Supplemental informatio EUH210 2.3. Other hazards Dust loading. Possible d SECTION 3: Composition/i	ied hazardous in accorda to be indicated on label Saf st explosion hazard.	(Regulation	(EC) No. 12	272/2008)	08.	
This product is not class 2.2. Label elements Hazardous component(si Supplemental informatio EUH210 2.3. Other hazards Dust loading. Possible d SECTION 3: Composition/i 3.2. Mixtures	ied hazardous in accorda to be indicated on label Saf st explosion hazard. Iformation on ingredie	(Regulation	(EC) No. 12	272/2008)	08.	
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rade name:	- Zinnoberrot		Print date: 02.03.20
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	utiously with water for several min dical advice immediately.	utes. Remove contact lenses, if present a	nd easy to do. Continue rinsing.
		a physician immediately and show him the vhen giving first aid	e Safety Data Sheet.
	er: Pay attention to self-protection!		
	mportant symptoms and effects	s, both acute and delayed	
	no symptoms known so far.		
4.3. Indicat	tion of any immediate medical a	attention and special treatment needed	
	he physician / treatment nptomatically		
ECTION 5: F	irefighting measures		
5.1. Exting	uishing media		
	xtinguishing media ray jet, Foam		
	ble extinguishing media r jet, Carbon dioxide		
=	al hazards arising from the subs		
		eased: Sulphur oxides; Carbon monoxide (rritant and harmful combustion products.	(CO); Carbon dioxide (CO2);
5.3. Advice	e for firefighters		
	otective equipment for fire-fight contained breathing apparatus. W		
Other infor Fire resid		g water must be disposed of in accordance	e with the local regulations.
ECTION 6: A	ccidental release measures		
6.1. Persor	nal precautions, protective equi	pment and emergency procedures	
Avoid du vapours/o	st formation. Do not inhale dust. E	Insure adequate ventilation. Use breathing due to leakage/spillage of product. Use pe	
6.2. Enviro	nmental precautions		
	scharge into the drains/surface wanninated wash water.	aters/groundwater. Do not discharge into t	he subsoil/soil. Retain and dispose
6.3. Metho	ds and material for containmen	t and cleaning up	
Avoid rai	sing dust. Pick up mechanically. V	Vhen picked up, treat material as prescribe	ed under Section 13 "Disposal".
	ence to other sections		
	on regarding Safe handling, see S on regarding waste disposal, see	Section 7. Information regarding personal p Section 13.	protective measures, see Section 8
ECTION 7: H	landling and storage		
7.1. Precau	utions for safe handling		
Avoid the Handle a apparatu	nd open container with care. Prov s when transferring large quantitie	. Provide exhaust ventilation if dust is form ride suitable exhaust ventilation at the proc s without exhaust ventilation facilities. If w ticular job must be worn. Observe the usu	cessing machines. Use breathing vorkplace limits are exceeded, a

Advice on protection against fire and explosion

Avoid dust formation. Take action to prevent static discharges. Earthing necessary during loading operations. Keep away from sources of heat and ignition. Dust can form an explosive mixture with air. Do not smoke.

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7.2. Conditions for safe stora	ge. including any ir	compatibilities	
Hints on storage assembly			A side
Further information on storage		together with: Oxidising agents, A	ACIOS
		ell-ventilated place. Protect from d	irect sunlight. Protect from extreme
ECTION 8: Exposure controls	/personal protect	tion	
8.1. Control parameters			
Exposure limit values			
Calcium fluoride			
List	2000/39/I		D.
Type Value	Indicative 2,5	 Occupational Exposure Limit (EL mg/m³ 	(נ
Remarks: Fluorides, inorgan		ing/in	
List	TRGS 90	0	
Value	1	mg/m³	
Maximum limit value: 4(II); S	Skin resorption / sens	sibilisation: H; Pregnancy group:	Y; Status: 12/2007; Remarks: EU,
Quartz			
Type Value	MAK 0.05	mg/m³	
	-,	emarks: Alveolengängige Fraktior	n, TRGS 559, TRGS-
Biological limit values			
Calcium fluoride			
List	TRGS 90		
Value	7,0	mg/g creatinine	
Parameter	Fluoride		
Testing material	Urine (U)		
Test date	End of ex	posure or end of shift.	
Calcium fluoride	TD 00	0	
List Value	TRGS 90 4,0	3 mg/g	
value	4,0	rng/g creatinine	
Parameter	Fluoride		
Testing material	Urine (U)		
Test date	Before ne	ext shift.	
Other information The national general dust lim			
IRGS 000. Obereania the se			
TRGS 900: Oberserve the ge 8.2. Exposure controls			
8.2. Exposure controls			
8.2. Exposure controls General protective and hygie Do not inhale dust/fumes/aer away from foodstuffs and bey	osols. Avoid contact /erages. Wash hands	s before breaks and after work. Us	ink or smoke during work time. Keep se barrier skin cream. Observe the
8.2. Exposure controls General protective and hygie Do not inhale dust/fumes/aer away from foodstuffs and bey	osols. Avoid contact /erages. Wash hands		se barrier skin cream. Observe the
 8.2. Exposure controls General protective and hygie Do not inhale dust/fumes/aer away from foodstuffs and bey usual precautions for handlin Respiratory protection If workplace limits are exceeded 	osols. Avoid contact verages. Wash hands g chemicals. Take of ded, a respiratory pro	s before breaks and after work. Us f immediately all contaminated clo tection approved for this particula	se barrier skin cream. Observe the
 8.2. Exposure controls General protective and hygie Do not inhale dust/fumes/aer away from foodstuffs and bev usual precautions for handlin Respiratory protection If workplace limits are exceed Use breathing apparatus in d Hand protection 	osols. Avoid contact verages. Wash hands g chemicals. Take of ded, a respiratory pro	s before breaks and after work. Us f immediately all contaminated clo tection approved for this particula	se barrier skin cream. Observe the othing.
 8.2. Exposure controls General protective and hygie Do not inhale dust/fumes/aer away from foodstuffs and bevusual precautions for handlin Respiratory protection If workplace limits are exceed Use breathing apparatus in d Hand protection Protective gloves 	osols. Avoid contact verages. Wash hands g chemicals. Take of ded, a respiratory pro ust-laden atmospher	s before breaks and after work. Us f immediately all contaminated clo tection approved for this particula	se barrier skin cream. Observe the othing. r job must be worn. Particle filter P2;
 8.2. Exposure controls General protective and hygie Do not inhale dust/fumes/aer away from foodstuffs and bevusual precautions for handlin Respiratory protection If workplace limits are exceed Use breathing apparatus in d Hand protection Protective gloves Observe the information of the 	osols. Avoid contact verages. Wash hands g chemicals. Take of ded, a respiratory pro ust-laden atmospher	s before breaks and after work. Us f immediately all contaminated clo tection approved for this particula e.	se barrier skin cream. Observe the othing. r job must be worn. Particle filter P2;

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Body protection Clothing as usual in the chemical indu	ustry.		
ECTION 9: Physical and chemical p	operties		
9.1. Information on basic physical an	d chemical properties		
Form	Powder		
Colour Odour	see tradename		
	characteristic		
Odour threshold Remarks	not determined		
pH value			
Remarks	not determined		
Melting point			
Remarks	not determined		
Freezing point Remarks	not determined		
Initial boiling point and boiling range Remarks	not determined		
Flash point	not determined		
Remarks	Not applicable		
Evaporation rate (ether = 1) :			
Remarks	not determined		
Flammability (solid, gas) not determined			
Upper/lower flammability or explosiv Remarks	e limits not determined		
Vapour pressure Remarks	not determined		
Vapour density Remarks	not determined		
Density			
Remarks	not determined		
Solubility in water			
Remarks	not determined		
Solubility(ies)			
Remarks	not determined		
Partition coefficient: n-octanol/water Remarks	not determined		
Ignition temperature			
Remarks	not determined		
Decomposition temperature Value	from 200 °	°C	
Explosive properties			
evaluation	not determined		
Oxidising properties Remarks	not determined		
9.2. Other information			
Other information			
None known			

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

10.2. Chemical stability

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No hazardous reactions known.				
10.3. Possibility of hazardous react	ions			
No hazardous reactions known.				
10.4. Conditions to avoid				
Temperatures above 200 °C. Static heat, sparks, open flame.	charges. Du	ust can form an exp	losive mixture with	air. Avoid all sources of ignition:
Decomposition temperature Value	from	200	°C	
10.5. Incompatible materials				
Reactions with strong oxidising age	nts. Reactio	ons with strong alkali	ies. Reducing ager	nts, Acids
10.6. Hazardous decomposition pro	oducts			
This type includes diarylide-pigmen 200 °C aromatic Amine - as carcino (SOx), nitrous oxides (NOx), Chlorir	genic 3,3-Di	ichlorbenzidine - ca		
ECTION 11: Toxicological informat	ion			
11.1. Information on toxicological e	ffects			
Acute oral toxicity Remarks	not determ	nined		
Acute dermal toxicity Remarks	not determ	nined		
Acute inhalational toxicity Remarks	not determ	nined		
Skin corrosion/irritation	not dotorm	vined		
Remarks Remarks	not determ Frequent p	persistent contact wi	th the skin can cau	use skin irritation.
Serious eye damage/irritation Remarks	not determ			
Remarks	Eye contac	ct with the product m	hay lead to irritation	n.
Sensitization				
Remarks	not determ	linea		
Subacute, subchronic, chronic toxi Remarks	not determ	nined		
Remarks			tion of dust may lea	ad to chronic respiratory irritation.
Mutagenicity		in a d		
Remarks	not determ	nnea		
Reproductive toxicity Remarks	not determ	nined		
Carcinogenicity Remarks	not determ			
Specific Target Organ Toxicity (STO Remarks	DT) not determ	nined		
Other information No toxicological data are available.				
ECTION 12: Ecological information	1			
12.1. Toxicity				
General information not determined				
12.2. Persistence and degradability				
General information not determined				
12.3. Bioaccumulative potential				

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Concret information		
General information not determined		
Partition coefficient: n-octanol/wa Remarks	ter not determined	
12.4. Mobility in soil		
General information not determined		
12.5. Results of PBT and vPvB as	sessment	
General information		
12.6. Other adverse effects		
General information		
not determined		
General information / ecology Ecological data are not available.	Do not discharge product unmonitored into the envir	onment.
ECTION 13: Disposal consideration	ons	
13.1. Waste treatment methods		
	e product ble and authorized waste disposal site in accordance he waste disposal operator and/or the competent Au	
Disposal recommendations for pa	ckaging should be disposed off as product waste.	
ECTION 14: Transport information	n	
Land transport ADR/RID		
•	hazardous substance in land transport.	
Marine transport IMDG/GGVSee		
-	hazardous substance in sea transport.	
Air transport ICAO/IATA		
-	hazardous substance in air transport.	
ECTION 15: Regulatory information	on	
15.1. Safety, health and environme	ental regulations/legislation specific for the subs	tance or mixture
Water Hazard Class (Germany)		
Water Hazard Class (Germany)	WGK 3	4 0)/
Remarks Other regulations, restrictions and		AwSV
·	ns; Danger, Evaluation, Protection measures".	
15.2. Chemical safety assessment		
For this preparation a chemical sa	fety assessment has not been carried out.	
ECTION 16: Other information		
AGW: Arbeitsplatzgrenzwert	ransport international des marchandises Dangereus zum Umgang mit wassergefährdenden Stoffen (Ordi water)	

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EINECS:	European Inventory of Existin	g Commercial Chemical Substances	
	European List of Notified Che		
	: Gefahrgutverordnung See		
IARC: Int	ernational Agency for Researc	ch on Cancer	
	ernational Air Transport Assoc		
	ernational Civil Aviation Orgar		
	ternational Maritime Code for	Dangerous Goods	
	al concentration		
LD: Letha			
	ximale Arbeitsplatz-Konzentra		
	o observable effect concentra	tion	
	o observable effect level		
	rganisation for Economic Co-	operation and Development	
	cupational exposure limit	F	
	sistent, Bioaccumulative and T		
-	redicted no effect concentratio		acrouoco
	echnische Regeln für Gefahrst	t international ferroviaire de marchandises dan	gereuses
		lone	
	ein Deutscher Ingenieure aleurs Limites d'exposition Pro	fessionnelle	
	ry persistent and very bioaccu		
	assergefährdungsklasse (wate		
	ntal information		

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: ***