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1.	Identification of the Substance/M	ixture and of the Company/Undertal	king
1. 1.	Product Identifier		
	Product Name:	Iron Oxide Red 110 M, light	
	Article No.:	48100	
	UFI:		
1. 2.	Relevant identified Uses of the Substance or	Mixture and Uses advised against	
	Identified uses:		
		Coloring agent (pigment and dyes), inor	ganic.
	Uses advised against:		
1. 3.	Details of the Supplier of the Safety Data She	eet (Producer/Importer)	
	Company:	Kremer Pigmente GmbH & Co. KG	
	Address:	Hauptstr. 41-47, 88317 Aichstetten, Ger	rmany
	Tel./Fax.:	Tel +49 7565 914480, Fax +49 7565 16	06
	Internet:	www.kremer-pigmente.com	
	EMail:	info@kremer-pigmente.com	
	Importer:		
1. 4.	Emergency No.		
	Emergency No.:	+49 7565 914480 (Mon-Fri 8:00 - 17:00))
1. 4. 2	Poison Center:		
2.	Hazards Identification		
2. 1.	Classification of the Substance or Mixture		
	Classification according to Regulation		
	(EC) No. 1272/2008 (CLP/GHS)	This product does not require classificat	tion and labelling as
		hazardous according to CLP/GHS.	
	Possible Environmental Effects:		
2. 2.	Label Elements		
	Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)		
	(EC) NO. 1212/2000 (CEF/GH3)	No classification required according to the	he CLP/GHS guidelines.
	Hazard designation:		
		Not applicable.	
	Signal word:		
	Hazard designation:		
	Safety designation:		
	Hazardous components for labelling:		
2. 3.	Other Hazards		
3.	Composition/Information on Ingr	edients	
	Substance		

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3. 1.			
3. 2.	Mixture		
	Chemical Characterization:	Fe2O3. Pigment Red 101, C	c.l. 77491
	Information on Components / Hazardous Ingredients:		
	Diiron trioxide (Fe2O3); REACH Reg. No 2119457614-35-0000	. 01- 100 %	CAS-Nr: 1309-37-1 EINECS-Nr: 215-168-1 EC-Nr:
	Additional information:		
		= 140 - 200 nm	
4.	First Aid Measures		
4. 1.	Description of the First Aid Measures		
	General information:		
		Consult physician.	
		Do not leave affected person Take person away from haza	
		First aiders: mind self-protect	
	After inhalation:		
		Supply fresh air and keep pa	
		If breathing is difficult call a p	-
		Reep the anways open. Ona	asten tight garments (collar, tie, belt
	After skin contact:	Remove contaminated cloth	ing and wash hefore reuse
		Wash off with plenty of wate	-
		Continue to rinse for at least	10 minutes.
		If symptoms persist, consult	a physician.
	After eye contact:		
		Remove contact lens. Rinse min). Should irritation contine	open eyes with plenty of water (10- ue, seek medical advice.
	After ingestion:		
			nsult a physician in case of complair ss directed to do so by medical
		•	store, respectively transport in stat
		minedialely get medical help	J.

4. 2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

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	Effects:		Filited. 04.10.202		
4. 3.	Indication of any Immediate Medical Atter	tion and special Treatment needed			
4. J.	•	and special freatment needed			
	Treatment:	Treat symptomatically.			
5.	Fire-Fighting Measures	meat symptomatically.			
5 . 1.					
J. I.	Extinguishing Media				
	Suitable extinguishing media:	Water mist extinguishing newdo	r faam aarban diavida		
		Water mist, extinguishing powder	r, ioann, carbon dioxide.		
	Unsuitable extinguishing media:	None known.			
5. 2.	Special Hazards arising from the Substan				
0. 2.					
	Special hazards:	No special hazards.			
		Product is not flammable.			
5. 3.	Advice for Firefighters				
	Protective equipment:				
		Usual measures for chemical fire	S.		
		Fire-fighters should wear approp self-contained breathing apparate operated in positive pressure mo	us (SCBA) with a full face-piece		
	Further information:				
		Prevent fire extinguishing water for or the ground water system.	rom contaminating surface water		
6.	Accidential Release Measures				
6. 1.	Personal Precautions, Protective Equipment and Emergency Procedures				
	Personal precautions:				
		Avoid formation of dust, wear pro away.	tective clothing. Keep spectators		
		Ensure adequate ventilation.			
6. 2.	Environmental Precautions				
	Environmental precautions:		union and a suffrage such as		
		Prevent contamination of soils, d In case of Contact local authoritie			
		vegetation.			
6. 3.	Methods and Material for Containment an	d Cleaning Up			
	Methods and material:				
		Clean up mechanically. Transfer separate suitable containers for r			
6. 4.	Reference to other Sections				
6. 4.	Reference to other Sections	Protective clothing, see Section & Dispose of contaminated materia			

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7. 1.	Precautions for Safe Handling		
	Instructions on safe handling:		
		Wear adequate protective clothing (se	e para. 8).
		Avoid contact with eyes and skin. Provide good ventilation and/or exhaus	st at the workplace Ensur
		adequate ventilation. Handle and oper	
	Hygienic measures:		
		Do not eat or drink during work. Do no	t smoke.
7.2.	Conditions for Safe Storage, including any I	ncompatibilities	
	Storage conditions:		da se el sue lla se etile te el
		Store in tightly sealed containers in a c location.	ary and well ventilated
		Protect product from direct sunlight.	
	Requirements for storage areas and containers:		
		Preferably store in the original contain	er
		Keep containers upright and protect fro	
		Close open containers with care and s avoid spilling.	tore in an upright position
	Information on fire and explosion protection:		
		Electrical installations / working materi	als must comply with the
		technological safety standards.	
	Storage class:	13; Non combustible solids (TRGS 51)	0)
	Further Information:		5)
7 2			
7. 3.	Specific End Use(s)		
	Further information:	(
8.	Exposure Controls/Personal Pro	tection	
8. 1.	Parameters to be Controlled		
	Parameters to be controlled (DE):	Does not contain any components with	h workplace limit values
		Does not contain any components with	i workplace iiniit values.
	Parameters to be controlled:		
	Derived No-Effect Level (DNEL):	No values available.	
		no values avaliable.	
	Predicted No-Effect Concentration (PNEC):		
	/	No values available.	
	Additional Information:		
8. 2.	Exposure Controls		
	Technical protective measures:		
		Provide adequate ventilation.	
		Provide adequate ventilation/exhaust	
			next page:

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Personal Protection				
General protective measures:				
	Remove contaminated clothing. V Wash contaminated clothes befor Keep away from foodstuffs, bever	re reuse.	rk.	
Respiratory protection:		agoo ana rooa.		
Respiratory protection.	Dust mask recommended when v	ery dusty (with parti	cle filter P1).	
Hand protection:				
	Protective gloves			
Protective glove material:				
	Leather gloves(< 60 min)			
Eye protection:				
	Safety glasses with protective shi	elds (EN 166).		
Body protection:				
	Protective clothing.			
Environmental precautions:				
	Avoid contamination of sewage s ground water.	ystem, open water w	ays and	
9. Physical and Chemical Properties	6			
9. 1. Information on Basic Physical and Chemical	Information on Basic Physical and Chemical Properties			
Form:	powder			
Color:	red			

no information available 4-8 (5%)

> 1000°C (> 1832°F)

not applicable

not applicable

not applicable

not available

odorless

Melting temperature:

Boiling temperature:

Flash point:

Odor:

Odor threshold:

pH-Value:

Evaporation rate:

Flammability (solid, gas):

Upper explosion limit:

Lower explosion limit:

no information available

no information available

Vapor pressure:

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Page 6 Revised edition: 14.02.2023 Version: 5.0 Printed: 04.10.2023 not applicable Vapor density: This product is a non-volatile solid. 5 g/cm3 (20°C) Density: Solubility in water: insoluble Coefficient of variation (n-Octanol/Water): no information available Auto-ignition temperature: not applicable Decomposition temperature: not determined Viscosity, dynamic: not applicable Explosive properties: not applicable Oxidizing properties: no information available Bulk density: 300 - 1000 kg/m3 (20°C) 9.2. **Further Information** Solubility in solvents: Viscosity, kinematic: Burning class: Solvent content: Solid content: Particle size: Partikel characteristics: This substance/ mixture contains nanoforms (see Section 3). Other information: No further information. 10. **Stability and Reactivity** 10.1. Reactivity No information available. 10.2. **Chemical Stability** The product is stable. 10.3. **Possibility of Hazardous Reactions** None if handled and stored according to specifications. 10.4. **Conditions to Avoid** Conditions to avoid:

No information available.

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	Thermal decomposition:		
10.5.	Imcompatible Materials		
		No information available.	
10.6.	Hazardous Decomposition Products	None if stored and handled according to s	specifications
10.7.	Further Information		pecifications.
11.	Toxicological Information		
11. 1.	Information on Hazard Classes as defined in	Regulation (EC) No. 1272/2008	
	Acute Toxicity		
	LD50, oral:	> 5000 mg/kg (rat)	
	LD50, dermal:	No information available.	
	LC50, inhalation:	No information available.	
	Primary effects		
	Irritant effect on skin:		
	innant enect on skin.	Non irritating	
	Irritant effect on eyes:		
	innani checi on eyes.	Non-irritating to eyes	
	Inhalation:		
		No irritant effect known.	
	Ingestion:		
		No information available	
	Sensitization:		
		Non sensitizing.	
	Mutagenicity:		
		No relevant data found.	
	Reproductive toxicity:	No volovová doto formal	
		No relevant data found.	
	Carcinogenicity:	No relevant data found.	
	Torotogoniaitu	No relevant data found.	
	Teratogenicity:	No information available.	
	Specific target organ toxicity (STOT):		
		Single exposure: Not classified based on Repeated exposure: Not classified based	
	Aspiration hazard:		
		No information available.	
11. 2.	Information on other Hazards		
		Endocrine Disrupting Properties: This substance/mixture does not contain a	any components with 8

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		endocrine disrupting properties in a according to Article 57(f) of the RE, 1907/2006 or the Delegated Regula Delegated Regulaton (EC) 2018/60	ACH Regulation (EC) No. ation (EC) 2017/2100 or the
12.	Ecological Information		
12. 1.	Aquatic Toxicity		
	Fish toxicity:	LC50: > 1000 mg/l (48h, Leuciscus	idus; OECD 203)
	Daphnia toxicity:	EC50: > 10000 mg/l (48h, Daphnia	magna)
	Bacteria toxicity:		
		No data available.	
	Algae toxicity:		
		No information available.	
12. 2.	Persistency and Degradability		
12. 3.	Bioaccumulation	No information available.	
12. 3.	Bioaccumulation	No information available.	
12. 4.	Mobility		
	-	No information available.	
12. 5.	Results of PBT- und vPvP Assessment		
		On the basis of available data, the PBT or vPvB substances in percen	
12. 6.	Endocrine Disrupting Properties		
		This substance/mixture does not co to have endocrine disrupting prope Article 57(f) or Commission Delgate 2017/2100 or Commission Regulat 0.1 % or higher.	rties according to REACH ed Regulation (EU) No.
12. 7.	Other Adverse Effects		
	Water hazard class:		
		Not hazardous.	
	Behaviour in sewage systems:		
	Further ecological effects:		
		No special effects or hazards know	'n.
	AOX Value:		
13.	Disposal Considerations		
13. 1.	Waste Treatment Methods		
	Product:		
		If product cannot be reused or recy according to current local regulation	
	European Waste Code (EWC):		

Uncleaned packaging:

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		Non contaminated packaging energy (incineration).	can either be recycled or utilized for
	Waste Code No.:		
14.	Transport Information		
14. 1.	UN Number		
	ADR, IMDG, IATA		
14. 2.	UN Proper Shipping Name		
	ADR/RID:		
		No hazardous goods accordir transportation).	ng to ADR / DOT (US) (land
	IMDG/IATA:		
		Not hazardous goods	
14. 3.	Transport Hazard Classes		
	ADR Class:	notonnliachla	
		not applicable	
	Hazard no.:		
	Classification code:		
	Tunnel restriction code:		
	IMDG Class (sea):	not applicable	
	Hazard no.:	not applicable	
	EmS No.:		
	IATA Class:	not applicable	
	Hazard no.:		
14. 4.	Packaging Group		
	ADR/RID:		
		not applicable	
	IMDG:		
	IATA:		
14. 5.	Environmental Hazards		
		None	
14. 6.	Special Precautions for User	Not classified as a dangerous	s good under transport regulations.
14. 7.	Maritime Transport in Bulk according	-	good ander transport rogalatione.
		not applicable	
14. 8.	Further Information		
		Protect against moisture. Do not store together with foc	a datuffa

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15.	Regulatory Information			
15. 1.	Safety, Health and Environmental Regulations	/Legislation specific for the Substance or Mixtur	e	
	Water hazard class:			
		0, not hazardous (German Regulation, As	sessment b	y list)
	Local regulations on chemical accidents:			
		Seveso III Directive: not applicable under	Directive 20	12/18/EC.
	Employment restrictions:			
	Restriction and prohibition of application:			
		EC. REACH, Section XVII, Restrictions of Placing on the Market and Use of Certain Preparations and Articles: not applicable		
	Technical instructions on air quality:			
15. 2.	Chemical Safety Assessment			
		A Chemical Safety Assessment is not neo	cessary for t	his product.
15. 3.	Further Information			
		Regulation (EU) 2019/1021 - Persistent o regulated / not applicable	rganic pollut	ants: not
		Regulation (EC) 1005/2009 - Substances Layer: not regulated / not applicable	that Deplete	e the Ozone
		Regulation (EC) 111/2005 laying down ru trade between the Community and third c precursors: not forbidden and/or not restru	ountries in d	
		Regulation (EC) 649/2012 concerning the dangerous chemicals: Not applicable	export and	import of
		International Chemical Weapons Convent toxic chemicals and toxic chemical precur and/or restricted		
		EC. REACH, Annex XIV, Candidate List of High Concern (SVHC): not regulated / not		s of very
16.	Other Information			
		This product should be stored, handled an with good hygiene practices and in confor regulations. This information contained he present state of knowledge and is intende from the point of view of safety requirement therefore not be construed as guaranteein	mity with an erein is base ed to describ nts. It should	y legal d on the e our produc d be

therefore not be construed as guaranteeing specific properties.