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1.	Identification of the Substance/	Mixture and of the Company/Und	dertaking	
1. 1.	Product Identifier			
	Product Name:	Iron Filings		
	Article No.:	54600		
	UFI:			
1. 2.	Relevant identified Uses of the Substance of	or Mixture and Uses advised against		
	Identified uses:	Industrial use Water treatment Manufacture of chemicals		
	Uses advised against:			
1. 3.	Details of the Supplier of the Safety Data SI	heet (Producer/Importer)		
	Company:	Kremer Pigmente GmbH & Co. K	G	
	Address:	Hauptstr. 41-47, 88317 Aichstette	n, Germany	
	Tel./Fax.:	Tel +49 7565 914480, Fax +49 75	565 1606	
	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 clas hazardous according to CLP/GHS		ng as
	Possible Environmental Effects:	See Section 12.		
2. 2.	Label Elements			
	Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)	This product does not require clas hazardous according to CLP/GHS		ng as
	Hazard designation:	Not applicable.		
	Signal word:			
	Hazard designation:			
	Safety designation:			
	Hazardous components for labelling:			

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Revised edition: 06.12.2023 Version: 1 Printed: 06.12.2023 2.3. Other Hazards 3. **Composition/Information on Ingredients** 3.1. Substance 3. 2. Mixture Chemical Characterization: Information on Components / Hazardous Ingredients: Iron; REACH Reg. No. 01-2119462838-24-xxxx 100 % CAS-Nr: 7439-89-6 EINECS-Nr: 231-096-4 EC-Nr: Additional information: 4. **First Aid Measures** 4.1. **Description of the First Aid Measures** General information: Seek medical attention in case of complaints. After inhalation: Take affected person to fresh air. If breathing is difficult call a physician. After skin contact: Remove contaminated clothing. Wash off immediately with plenty of water and soap. After eye contact: Rinse open eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists. After ingestion: Rinse mouth with water and drink plenty of water. Do not induce vomiting. Consult physician immediately. 4.2. Most important Symptoms and Effects, both Acute and Delayed Symptoms: Inhalation: can cause irritation of nose, throat and trachea. Skin contact: prolonged contact may cause irritations. Eye contact: can cause mechanical irritation. Effects: No further information available. 4.3. Indication of any Immediate Medical Attention and special Treatment needed Treatment: Treat symptomatically. 5. **Fire-Fighting Measures** 5.1. **Extinguishing Media** Suitable extinguishing media:

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		Extinguishing powder.		
	Unsuitable extinguishing media:			
		Molten metal can react violently flows into water or water into mo		
		surrounded by molten iron, this of vapor and gases. DO NOT APPL DIRECTLY ONTO THE MATER	could cause a vigorou LY WATER, CO2 OR	is release of
5. 2.	Special Hazards arising from the Subs			
	Special hazards:			
		The product is not flammable.		
		Danger of dust explosion caused particles in the air. In the case of improbable due to its particle size	f this product this is ra	
5. 3.	Advice for Firefighters			
	Protective equipment:			
		Wear self-contained respiratory protective gear.	protective device and	full
	Further information:			
		Cool exposed containers with wa	ater mist.	
6.	Accidential Release Measure			
6. 1.	Personal Precautions, Protective Equi	pment and Emergency Procedures		
	Personal precautions:			
		Avoid formation of dust, wear pro	stective clothing.	
6. 2.	Environmental Precautions			
	Environmental precautions:	Dura yout as a family of a sile of		4- 1
6.2	Mathada and Matarial for Containment	Prevent contamination of soils, o	rains and surface wa	ter.
6. 3.	Methods and Material for Containment	and cleaning op		
	Methods and material:	Avoid dust formation.		
		Spillage should be cleared with v	/acumm equipment, r	protected
		against static electricity.		
6. 4.	Reference to other Sections			
		Protective clothing, see Section See Section 13 for information of		
7.	Handling and Storage			
7. 1.	Precautions for Safe Handling			
	Instructions on safe handling:			
	instructions on sale nanoling.	Avoid formation of dust.		
		Provide adequate ventilation.		
	Hygienic measures:			
		Avoid contact with skin, eyes and	d clothing. Do not inh	ale dust.
		Take off contaminated clothing in separately.	-	
		Keep away from foodstuffs and o		<i>nk or smoke</i> xt page: 4

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		during work. Wash hands befo	re breaks and at the end	l of work.
7.2.	Conditions for Safe Storage, including any I	ncompatibilities		
	Storage conditions:	<b>.</b>		
		Store in tightly sealed containe oxidation of the material.	rs in a dry location to av	oid the
	Requirements for storage areas and containers:			
		Store product in closed contain	ers.	
	Information on fire and explosion protection:			
		Take measures to prevent elec	trostatic discharge.	
		Self-ignition resp. auto-oxidatio	•	
		Dust explosion class 1 (Kst-val Do not store together with: stro	,	
	Storage class:			
	Further Information:			
7. 3.	Specific End Use(s)			
	Further information:			
		No information available.		
8.	Exposure Controls/Personal Pro	tection		
8. 1.	Parameters to be Controlled			
	Parameters to be controlled (DE):			
	Parameters to be controlled:			
		Iron (CAS 7439-89-6), (BG, Sk Iron (CAS 7439-89-6), (CZ, TV	, -	
	Derived No-Effect Level (DNEL):			
		Iron (7439-89-6):		
		0.71 mg/kg bw/day (consumer, systemic effects)	swallowing, long-term e	exposure -
		3 mg/m3 (worker, inhalation, lo 1.5 mg/m3 (consumer, inhalatio		
	Predicted No-Effect Concentration (PNEC):			
	Additional Information:			
8. 2.	Exposure Controls			
	Technical protective measures:			
	,	Provide adequate ventilation.		
	Personal Protection			
	General protective measures:			
		Keep away from foodstuffs and during work. Wash hands befo		
	Respiratory protection			

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		solid and liquid particles, EN	e filter P2 or FFP2 or NIOSH N95 (for 143, 149) if dust occurs.
	Hand protection:		
		Not required	
	Protective glove material:		
		For long-term exposure: nitrile mm).	e or butyl rubber (BTT>480 min, 0.7
	Eye protection:		
		Not required.	
	Body protection:	Protective clothing.	
	Environmental processions:	r rolective clothing.	
9.	Environmental precautions: Physical and Chemical Prop	artics	
9. 1.	Information on Basic Physical and Cl		
<b>J</b> . 1.	Form:	powder	
	Color:		
	Odor:	gray, black odorless	
		odoness	
	Odor threshold:	no information available	
	pH-Value:		
	<b>F</b>	not available	
	Melting temperature:	1450°C	
	Boiling temperature:	2861°C	
	Flash point:		
		not applicable	
	Evaporation rate:		
		not applicable	
	Flammability (solid, gas):	not flammable	
	l Innar avalagion limit:		
	Upper explosion limit:	no information available	
	Lower explosion limit:		
		no information available	
	Vapor pressure:		
		not applicable	
	Vapor density:		
		No information available.	
	Density:	not available	
	Solubility in water:		
	Solubility in water:	insoluble	next page: 6

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	Coefficient of variation (n-		Finted. U	0.12.20	20
	Octanol/Water):				
		not applicable			
	Auto-ignition temperature:				
		not applicable			
	Decomposition temperature:	No decomposition if used ac	cording to specifications		
	Viccocity dynamic:				
	Viscosity, dynamic:	not applicable			
	Explosive properties:				
		Product does not present an	explosion hazard.		
	Oxidizing properties:				
		none			
	Bulk density:				
9. 2.	Further Information				
	Solubility in solvents:				
	Viscosity, kinematic:				
	Burning class:				
	Solvent content:				
	Solid content:				
	Particle size:				
	Other information:				
		No further information.			
10.	Stability and Reactivity				_
10.1.	Reactivity				
		Stable if used according to s	pecifications.		
10.2.	Chemical Stability	Stable if used according to s	necifications		
10.3.	Possibility of Hazardous Reactions				
10.0.		None if used according to sp	ecifications.		
10.4.	Conditions to Avoid				
	Conditions to avoid:				
		Avoid formation of dust.			
		Accumulation of fine dust pre explosion and if a ignition so		t	
	Thermal decomposition:				
		No further information availa	ble.		
10.5.	Imcompatible Materials	Strong ovidining agents			
		Strong oxidizing agents. Strong acids.			
			next p	ade.	7

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10.6.	Hazardous Decomposition Products	
		The product does not decompose.
0.7.	Further Information	
1.	Toxicological Information	
1. 1.	Information on Hazard Classes as defined i	in Regulation (EC) No. 1272/2008
	Acute Toxicity	
		Product is not toxic.
	LD50, oral:	
		Iron: 7500 mg/kg bw (rat)
	LD50, dermal:	
	LC50, inhalation:	
		Iron (dust): LCLo: 250 mg/m3 (6h)
	Primary effects	
	Irritant effect on skin:	
		Continuous contact can cause irritation.
	Irritant effect on eyes:	
		Dust may irritate eyes.
	Inhalation:	
		Can cause irritation of the respiratory system.
	Ingestion:	May cause indisposition and vomiting.
	Sensitization:	May cause musposition and voniting.
	Sensilization.	Non sensitizing.
	Mutagenicity:	
	Malagemeny.	Not mutagenic (Ames-Test; OECD 471)
	Reproductive toxicity:	
	.,	No information available.
	Carcinogenicity:	
		No relevant data found.
	Teratogenicity:	
		No information available.
	Specific target organ toxicity (STOT):	
		No relevant data found.
	Aspiration hazard:	
		No risk of aspiration.
1.2.	Information on other Hazards	No further information available.
12	Ecological Information	
	-	
1 <b>2.</b> 2. 1.	Ecological Information Aquatic Toxicity	

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#### 12.1. Aquatic Toxicity

Fish toxicity:

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		Iron: LC50: 0.56 mg/l (96h; Cyprinus c	
		(96h; Morone saxatillis static)	
	Daphnia toxicity:		
		No information available.	
	Bacteria toxicity:		
		no information available	
	Algae toxicity:	$I_{rop} = Fr(50; 4.0 mg/l(72b))$	
12. 2.	Persistency and Degradability	Iron: ErC50: 4.9 mg/l (72h)	
12.2.		Methods for the evaluation of the biologicable for inorganic substances.	gical degradability are not
12. 3.	Bioaccumulation		
		No bioaccumulation.	
12. 4.	Mobility		
		Iron and its compounds are found in th hydroxides. In the form of oxides they	
12. 5.	Results of PBT- und vPvP Assessment		T (no mistoret
		This substance is not classified as PB bioaccumulative, toxic), nor as vPvB (v bioaccumulative).	
12. 6.	Endocrine Disrupting Properties		
		No data available.	
12.7.	Other Adverse Effects		
	Water hazard class:		
	Behaviour in sewage systems:		
	Further ecological effects:		
		No ecological problems expected.	
	AOX Value:		
13.	Disposal Considerations		
13. 1.	Waste Treatment Methods		
	Product:		
		Dispose of according to official nationa	ו and local regulations.
	European Waste Code (EWC):		
	Uncleaned packaging:		
		Dispose of according to official local re	gulations.
	Waste Code No.:		
14.	Transport Information		
14. 1.	UN Number		
	ADR, IMDG, IATA		
14. 2.	UN Proper Shipping Name		
	ADR/RID:		

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		transportation).		
	IMDG/IATA:			
		Not hazardous goods		
14. 3.	Transport Hazard Classes			
	ADR Class:	not applicable		
	Hazard no.:			
	Classification code:			
	Tunnel restriction code:			
	IMDG Class (sea):	not applicable		
	Hazard no.:			
	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			
14. 7.	Maritima Transport in Pulk apparding to IMO I	none known		
14.7.	Maritime Transport in Bulk according to IMO I	not applicable		
14. 8.	Further Information			
		Not classified as a dangerous good	d under transport re	gulations.
15.	Regulatory Information			
15. 1.	Safety, Health and Environmental Regulations	/Legislation specific for the Substance of	or Mixture	
	Water hazard class:			
		1, slightly hazardous for water (Ge by list)	rman Regulation, A	ssessment
	Local regulations on chemical accidents:			
	Employment restrictions:			
	Restriction and prohibition of application:			
	Technical instructions on air quality:			

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15. 2. Chemical Safety Assessment				
		A Chemical Safety Assessment ha product.	s not been carried	out for this
15. 3.	Further Information			
16.	Other Information			
		This product should be stored, handled and used in acco with good hygiene practices and in conformity with any le regulations. This information contained herein is based of present state of knowledge and is intended to describe of from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific prop		y legal d on the e our product d be