According to regulation (EC) No. 1907/2006 (REACH)

54700 Zinc Dust



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1.	Identification of the Substance	e/Mixture and of the Company/Undert	taking	
1. 1.	Product Identifier			
	Product Name:	Zinc Dust		
	Article No.:	54700		
1. 2.	Relevant identified Uses of the Substand	ce or Mixture and Uses advised against		
	Identified uses:			
		Manutacture of paints Production of substances		
	Uses advised against:			
1. 3.	Details of the Supplier of the Safety Data	a Sheet (Producer/Importer)		
	Company:	Kremer Pigmente GmbH & Co. KG		
	Address:	Hauptstr. 41-47, 88317 Aichstetten, Germany		
	Tel./Fax.:	Tel +49 7565 914480, Fax +49 7565 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 - 17:0	00)	
1. 4. 2	Poison Center:			
2.	Hazards Identification			
2. 1.	Classification of the Substance or Mixtu	re		
	Classification according to Regulation	on		
	(EC) NO. 1272/2008 (CLP/GHS)	Hazardous to the aquatic environmen	it, chronic catego	ry 1
	L//10	Hazardous to the aquatic environmen	it, acute category	/1
	Cat.: ²	1	ing enects.	
	Possible Environmental Effects:			
2. 2.	Label Elements			
	Classification according to Regulatio (EC) No. 1272/2008 (CLP/GHS)	on		
	Hazard designation:			
		GHS09-1		
	Signal word:	Warning		
	Hazard designation:	Ŭ		

H410

Very toxic to aquatic life with long lasting effects.

Safety designation:

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	P273	Avoid release	to the enviror	nment.			
	P391	Collect spillag	e				
	P501	Dispose of co international r	ntents/ contai egulations.	ner according to	regional, r	national	and
	Hazardous components for labelling:						
23	Other Hazards						
		Dust may be cause a mech	produced whe nanical irritatic	en working with the north of eyes, nose	his materia and respira	l, which atory tra	1 can act.
3.	Composition/Information on Ingre	edients					
3. 1.	Substance						
3. 2.	Mixture						
	Chemical Characterization:	Zinc metall pi	gment				
	Information on Components / Hazardou Ingredients:	S					
	Zinc powder, stabilized (H400-410); RE	ACH Reg.	> 98 %	CAS-Nr: 7440	0-66-6		
	No. 01-2119467174-37			EINECS-Nr: 2	231-175-3		
				EC-Nr: 030-0	01-01-9		
	Zinc oxide (H400-410); REACH Reg. No	o. 01-	< 6 %	CAS-Nr: 1314	4-13-2		
	2119463881-32-0000			EINECS-Nr: 2	215-222-5		
				EC-Nr: 030-0	13-00-7		
	Additional information:						
4.	First Aid Measures						
4. 1.	Description of the First Aid Measures						
	General information:						
		Take affected	persons out	into the fresh air.			
	After inhalation:						
		Supply fresh a warm.	air. If required	give artificial res	spiration. K	eep pa	tient
	After skin contact:						
		Wash with so	ap and rinse w	with plenty of wa	ter.		
	After eve contact:						
		Rinse eyes w	ith lukewarm	water.			
	After indestion:	-					
	Alter ingestion.	Contact poiso	n center or pl	nvsician if feeling	unwell.		
4. 2.	Most important Symptoms and Effects, both	Acute and Delaye	d	.,			
	Symptoms:						
		Eye contact: µ reddness.	prolonged con	tact can irritate t	he eyes ar	าd caus	e
		Frequent inha	lation of dust coughing.	over a long perio	od of time d	can cau	ise

Effects:

Indication of any Immediate Medical Attention and special Treatment needed

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4. 3.				
	Treatment:			
		Treat symptomatically.		
5.	Fire-Fighting Measures			
5. 1.	Extinguishing Media			
	Suitable extinguishing media:			
		CO2, sand.		
	Unsuitable extinguishing media:			
		Foam		
		Water		
5. 2.	Special Hazards arising from the Substan	ce or Mixture		
	Special hazards:			
		There is a risk of explosion when the closed rooms and then exposed to sp	product dust is o parks, heat and o	listributed in pen flames.
5. 3.	Advice for Firefighters			
	Protective equipment:			
		Fire-fighters should wear appropriate self-contained breathing apparatus (operated in positive pressure mode.	e protective equip SCBA) with a full	ment and face-piece
	Further information:			
		Should a fire have to be extinguished product, the original packaging might	l near the storage t get moist.	e place of this
		Remove the moist packaging and mo product and store in a very good ven	oist product from tilated area.	the dry
		Collect contaminated extinguishing w avoid contamination of sewage syste	vater and debris s em.	separately;
		Promptly isolate the scene by remove vicinity of the incident if there is a fire involving any personal risk or without	ing all persons fro . No action shall t suitable training	om the be taken
6.	Accidential Release Measures			

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Wear appropriate protective equipment. Keep spectators away. Ensure adequate ventilation. Do not breathe vapors/dust.

6. 2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water. Contact local authorities if product pollutes soil or vegetation.

6. 3. Methods and Material for Containment and Cleaning Up

Methods and material:

Take up mechanically and collect in correctly labelled containers for disposal. Avoid formation of dust and static discharges. Prevent from getting into sewage system.

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6. 4.	Reference to other Sections			
		Protective clothing, see Section 8.		
		Dispose of contaminated material	according to Section 13.	
7.	Handling and Storage			
7. 1.	Precautions for Safe Handling			
	Instructions on safe handling:			
		Wear adequate protective clothing	(see para. 8).	
		Do not swallow or inhale.		
		Avoid contact with eyes, skin and	clothing.	
		Empty containers can contain proc hazardous.	duct residues which can be	
	Hygienic measures:			
		Keep away from foodstuffs and dri	inks. Do not eat, drink or smoke	
		Change contaminated clothing. Was	ash hands after work.	
7. 2.	Conditions for Safe Storage, including any I	ncompatibilities		
	Storage conditions:			
	-	Store dry and in the original tightly	sealed containers.	
		Protect product from direct sunligh	ot.	
		Do not store together with food stu	Iff and animal feed.	
		Do not store product in unlabelled	containers.	
	Requirements for storage areas and containers:			
		Store product in correctly labelled	containers.	
	Information on fire and explosion protection:			
		Keep away from sources of ignition	n - do not smoke.	
		Use only in explosion protective ar	rea. Extinguish any naked	
		Ensure electrical continuity by bon equipment.	nition sources. Avoid sparks. ding and grounding (earthing) all	
	Storage class:			
		13; Non combustible solids (TRGS	S 510)	
	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):			
		Zinc powder (CAS 7440-66-6), TW (15 min) airborne fraction; 2 mg/m	/A: 0.1 mg/m3 (8h), 0.4 mg/m3 3 (8h), 4 mg/m3 (15 min)	

inhalable fraction Zinc oxide (CAS 1314-13-2), TWA: 0.1 mg/m3 (8h), 0.4 mg/m3 (15 min) airborne fraction; 2 mg/m3 (8h), 4 mg/m3 (15 min) inhalable

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		fraction	
		Top limit: 4-fold in 15 min.	
	Parameters to be controlled:		
	Derived No-Effect Level (DNEL):		
		Zinc powder:	
		5 mg/m3 (consumer, swallowi effects)	ng, long-term exposure - systemic
		50 mg/m3 (worker, swallowing effects)	n, long-term exposure - systemic
		5000 mg/kg bw/d (worker/cons exposure - systemic effects)	sumer, skin contact, long-term
		2.5 mg/m3 (consumer, inhalat effects)	ion, long-term exposure - systemic
		Zinc oxide:	
		5 mg/m3 (consumer, swallowi effects)	ng, long-term exposure - systemic
		0.83 mg/kg bw/d (consumer, s systemic effects)	wallowing, long-term exposure -
		87 mg/kg bw/d (worker/consu exposure - systemic effects)	mer, skin contact, long-term
	Predicted No-Effect Concentration (PNEC):		
		Zinc powder:	
		Fresh water: 20.6 μg/l	
		Seawater: 6.1 µg/l	
		Fresh water sediment: 118 mg	g/kg dw
		Seawater sediment: 56.5 mg/k	(g
		Soil: 35.6 mg/kg	
		Sewage treatment system (ST	ΤΡ): 52 μg/l
		Zinc oxide:	
		Fresh water: 20.6 μg/l	
		Seawater: 6.1 µg/l	
		Fresh water sediment: 117.8 r	ng/kg
		Seawater sediment: 56.5 mg/ł	(g
		Soll: 35.6 mg/kg	
		Sewage treatment system (ST	Ρ): 52 μg/i
	Additional Information:		
8. 2.	Exposure Controls		
	Technical protective measures:	-	
		Provide adequate ventilation.	
	Personal Protection		
	General protective measures:		
		Do not inhale dust. Do not eat Wash hands before breaks an	, drink or smoke while working. d at the end of work.
	Respiratory protection:		
		Required in case of insufficien	t ventilation (EN 143 or 149).

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Hand protection:	Chemical protective gloves (EN 374 ((Europe), F739 (l	US)).
Protective glove material:			
Eye protection:			
	Tightly fitting safety goggles (EN 166,).	
Body protection:			
Environmental precautions:			
	Emissions from ventilation or work pr checked to ensure they comply with t environmental protection legislation. I scrubbers, filters or engineering modi equipment will be necessary to reduc levels.	ocess equipment he requirements in some cases, fu fications to the p e emissions to a	t should be of ume rocess cceptable

9. Physical and Chemical Properties

9. 1.	Information on Basic Physical and Chemical Properties			
	Form:	powder		
	Color:	gray		
	Odor:	odorless		
	Odor threshold:			
		No information available.		
	pH-Value:			
		not applicable		
	Melting temperature:	420°C (788°F)		
	Boiling temperature:	908°C (1666.4°F)		
	Flash point:			
		not available		
	Evaporation rate:			
		No information available.		
	Flammability (solid, gas):			
		not available		
	Upper explosion limit:			
		no information available		
	Lower explosion limit:			
		no information available		
	Vapor pressure:			
		not applicable		
	Vapor density:			
		No information available.		
	Density:	7.14 g/cm3		
	Solubility in water:	insoluble		

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11.	Toxicological Information	
10.7.	Further Information	
		None if stored and handled according to specifications.
10.6.	Hazardous Decomposition Products	
10.J.	incompanye materials	Oxidizing agents and acids.
10 5	Imcompatible Materials	
	Thermal decomposition:	word numlercy.
	Conditions to avoid:	Avoid humidity
10.4.	Conditions to Avoid	
		None if handled and stored according to specifications.
10.3.	Possibility of Hazardous Reactions	
		Stable if used according to specifications.
10.2.	Chemical Stability	
10.1.	Reactivity	The product is stable
10.	Stability and Reactivity	
	Other information:	
	Particle size:	
	Solid content:	
	Solvent content:	
	Burning class:	
	Viscosity, kinematic:	
	Solubility in solvents:	
9. 2.	Further Information	
	Bulk density:	
		No information available.
	Oxidizing properties:	
		can be formed.
	Explosive properties:	Product is not explosive: however. an explosive dust/air mixture
	Evelopivo prozortino	
	Viscosity, dynamic:	notavailabla
		not applicable
	Decomposition temperature:	
		No information available.
	Auto-ignition temperature:	
		no information available
	Coefficient of variation (n-	

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11. 1.	Information on Toxicological Effects			
	Acute Toxicity			
	LD50, oral:			
		Zinc powder: 2000 mg/m3 (rat)		
		Zinc oxide: > 5000 mg/m3 (rat)		
	LD50, dermal:			
		Zinc oxide: > 2000 mg/kg (rat)		
	LC50, inhalation:			
		Zinc powder: > 5.4 mg/l (4h, rat)		
		Zinc oxide: > 5.7 mg/l (4h, rat)		
	Primary effects			
	Irritant effect on skin:			
		Non irritating		
	Irritant effect on eyes:			
		Non-irritating to eyes		
	Inhalation:			
		No irritant effect known.		
	Ingestion:			
	Sensitization:			
		Zinc oxide: no sensitizing effect (guine	a pig).	
	Mutagenicity:			
		Zinc oxide: In vitro: negative (OECD 4) Mutation Test); In vivo: negative (Mam Chromosomal Test; OECD 475)	71 Bacterial Re malian Bone M	verse arrow
	Reproductive toxicity:			
		Based on the extrapolation of ZnSnO4 regard to the carcinogenicity. No class	: no data availa ification necess	ble with ary.
	Carcinogenicity:			
		Based on the extrapolation of ZnO: no to the carcinogenicity. No classification	data available n necessary.	with regard
	Teratogenicity:			
		No relevant data found.		
	Specific target organ toxicity (STOT):			
		No relevant data found.		
	Additional toxicological information:			
		Inhalation: Long-term overexposure ca tract and cause coughing.	an irritate the rea	spiratory
		Eye contact: long-term overexposure r	nay be irritating	to eyes.

12.1. Aquatic Toxicity

Very toxic for aquatic organisms, with long-term adverse effects.

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		Zinc oxide: LC50 320 ppm (96 0.017 mg/l (72h, Pseudokirchn	h, Lepomis macrochirus); NOEC: eriella subcapitata)
	Daphnia toxicity:		
		Zinc powder: EC50: 356 µg/l (4	8h, Daphnia magna)
	Bacteria toxicity:		
		No data available.	
	Algae toxicity:		
10 0	Development and Degradability	ZINC 0XIde: EC50 0.17 mg/l (72	n, Selenastrum capricornutum)
12.2.	Persistency and Degradability	No information available.	
12. 3.	Bioaccumulation		
		No information available.	
12. 4.	Mobility		
		No information available.	
12. 5. Results of PBT- und vPvP Assessment		Not applicable	
12. 6.	Other Adverse Effects		
12. 0.	Water bazard class:		
	Water Hazard Class.	2 (German Regulation) (Asses	sment by list): hazardous.
	Behaviour in sewage systems:		
	Further ecological effects:		
		Do not let product enter waterw	vays or sewage system.
	AOX Value:		
13.	Disposal Considerations		
13. 1.	Waste Treatment Methods		
	Product:		
		Dispose of according to official	national and local regulations.
	European Waste Code (EWC):		
	Uncleaned packaging:		
		Dispose of according to official	local regulations.
	Waste Code No.:		
14.	Transport Information		
14. 1.	UN Number		
	ADR, IMDG, IATA	3077	
14. 2.	UN Proper Shipping Name		
	ADR/RID:	UMWELTGEFÄHRDENDER S	TOFF, FEST, N.A.G. (Zink, Zinkoxid)
	IMDG/IATA:	ENVIRONMENTALLY HAZARI (Zinc, Zinc Oxide)	DOUS SUBSTANCE, SOLID, N.O.S.
14. 3.	Transport Hazard Classes		
	ADR Class:	9	

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	Hazard no.:	9				
	Classification code:	М7				
	Tunnel restriction code:	-				
	IMDG Class (sea):	9				
	Hazard no.:	9				
	EmS No.:	F-A, S-F				
	IATA Class:	9				
	Hazard no.:	9				
14. 4.	Packaging Group					
	ADR/RID:	///				
	IMDG:	<i>III</i>				
	IATA:	<i>III</i>				
14. 5.	Environmental Hazards					
		Labelling according 5.2.1.8 ADR/RID: fish and tree Labelling according 5.2.1.6.3 IMDG: fish and tree Classification as environmentally hazardous according 2.9.3 IMDG: yes				
14. 6.	Special Precautions for User	-				
		Always transport containers in an uprig Take care to inform all involved person case of leak (see Sections 6-8).	ht position to an how to handle	void spilling. e product in		
14.7.	Transportation in Bulk according to Annex II of	of MARPOL 73/78 and IBC-Code				
14 8	Further Information					
14. 0.		The environmentally hazardous substa when transported in sizes <= 5 l or <=	nce mark is not 5 kg.	t required		
15.	Regulatory Information					
15. 1.	Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture					
	Water hazard class:					
		2, hazardous for water (according to th AwSV)	e German Regi	ulation		
	Local regulations on chemical accidents:					
		Seveso III:				
		Environmentally hazardous (E1); Amou	unt 1: 100 t; Am	ount 2: 200 t		
	Employment restrictions:	The employment restrictions for young the Youth Employment Protection Law observed.	workers in acco (§ 22 JArbSch(ordance with G) are to be		
	Restriction and prohibition of application.	:				
		EC. REACH, Section XVII, Restrictions Placing on the Market and Use of Certa Preparations and Articles: not applicab	: on the Manufa ain Dangerous : le	cture, Substances,		
	Technical instructions on air quality:		ne>	(t page: 11		

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15. 2.	Chemical Safety Assessment				
		A Chemical Safety Assessment has been carried out for this product.			
15. 3.	Further Information				
		EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable			
		Regulation (EC) 850/2004 - Persistent organic pollutants and amending Directive 79/117/EEC: not regulated / not applicable			
		Listed in the following inventories:			
TSCA (US), AICS NZIoC (NZ), IECS			(AUS), DSL (CA), KECI (KR), PICCS (PH), C (CN)		
16.	Other Information				
		This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our produc from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.		ccordance y legal d on the e our product d be roperties.	