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

46300 Zinc White



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1.	Identification of the Substance/	Mixture and of the Company/Underta	king	
1. 1.	Product Identifier			
	Product Name:	Zinc White		
	Article No.:	46300		
	UFI:			
1. 2.	Relevant identified Uses of the Substance	or Mixture and Uses advised against		
	Identified uses:	Raw material for the chemical-pharmac Paint-related material. Varnish additive.	eutical industry	1.
	Uses advised against:			
1. 3.	Details of the Supplier of the Safety Data S	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 www.kremer-pigmente.com		
	Internet:			
	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)	n Hazardous to the aquatic environment,	hazard catego	rv 1
	H410 Cat.: 1	Very toxic to aquatic life with long lasting effects.		., .
	Possible Environmental Effects:			
2. 2.	Label Elements			
	Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)			
	Hazard designation:	^		
		GHS09-1		
	Signal word:	×		

Warning

Hazard designation:

Very toxic to aquatic life with long lasting effects. next page: 2

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	H410					
	Safety designation:					
	P273	Avoid release to the envir	ronment.			
	P391	Collect spillage				
	P501	international regulations.	tainer according to regional, national and			
	Hazardous components for labelling:					
2. 3.	Other Hazards					
3.	Composition/Information on Ingre	dients				
3. 1.	Substance					
3. 2.	Mixture					
	Chemical Characterization:	Pure zinc oxide				
	Information on Components / Hazardous Ingredients:					
	Zinc oxide (H400-410); REACH Reg. No.	. 01- 100 %	CAS-Nr: 1314-13-2			
	2119463881-32-0000		EINECS-Nr: 215-222-5			
			EC-Nr: 030-013-00-7			
	Additional information:					
4.	First Aid Measures					
4. 1.	Description of the First Aid Measures					
	General information:					
	Remove contaminated clothes immediately.					
		Self-protection of the first	t-aider:			
	After inhalation:					
		Supply fresh air. Consult	physician if symptoms persist.			
	After skin contact:					
		Remove contaminated cl of water and soap.	othing. Wash off immediately with plenty			
		If symptoms persist, cons	sult a physician.			
	After eye contact:					
		Rinse open eye for several minutes under running water. Should irritation continue, seek medical advice.				
	After ingestion:					
	-	Rinse mouth thoroughly water. Consult a physicia	with plenty of water and drink plenty of an.			
4. 2.	Most important Symptoms and Effects, both A	cute and Delayed				
	Symptoms:					
		Gastro-intestinal complai	ints.			
		Nausea				

Headache, fever

Effects:

Indication of any Immediate Medical Attention and special Treatment needed

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Zinc White 46300 PIGMENTE Page 3 Revised edition: 10.08.2023 Version: 5 Printed: 10.10.2023 4.3. Treatment: No further information available. 5. **Fire-Fighting Measures** 5.1. **Extinguishing Media** Suitable extinguishing media: Product itself does not burn. Use extinguishing media for surrounding fire. Unsuitable extinguishing media: None known. 5.2. Special Hazards arising from the Substance or Mixture Special hazards: The product is not flammable. 5.3. Advice for Firefighters Protective equipment: Wear self-contained respiratory protective device and full protective gear. Further information: Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system. 6. **Accidential Release Measures** 6.1. Personal Precautions, Protective Equipment and Emergency Procedures Personal precautions: Ensure adequate ventilation. Do not inhale dust. Avoid formation of dust. Avoid contact with eyes and skin. **Environmental Precautions** 6.2. Environmental precautions: Prevent contamination of soils, drains and surface water. 6.3. Methods and Material for Containment and Cleaning Up Methods and material: Clean up mechanically. Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. 6.4. **Reference to other Sections** Protective clothing, see Section 8. See Section 13 for information on disposal. 7. Handling and Storage 7.1. **Precautions for Safe Handling** Instructions on safe handling: Provide adequate ventilation.

Avoid formation and deposition of dust. Provide adequate ventilation.

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		Avoid contact with eyes and skin.		
	Hygienic measures:			
		Do not inhale dust. Wash hands before work.	breaks and at	the end of
		Avoid repeated and longterm contact w	ith skin.	
		Keep away from foodstuffs and drinks.		
7. 2.	Conditions for Safe Storage, including any	Incompatibilities		
	Storage conditions:			
		Store in tightly sealed containers in a di	ry and cool roo	m.
	Requirements for storage areas and containers:			
		Water law provisions have to be met.		
	Information on fire and explosion protection:			
		No special measures necessary.		
	Storage class:			
		13; Non combustible solids (TRGS 510)	
	Further Information:			
7. 3.	Specific End Use(s)			
	Further information:			
8.	Exposure Controls/Personal Pro	otection		
3. 1.	Parameters to be Controlled			
	Parameters to be controlled (DE):			
		TRGS 900		
		TLV: 10 mg/m3 inhalable fraction (gene	eral dust limit)	
		TLV: 1.25 mg/m3 air-borne fraction (ge	neral dust limit)
		Zinc oxide (CAS 1314-13-2): TLV: 10 m 1.25 mg/m3 (airborne fraction)	ng/m3 (inhalab	le fraction);
	Parameters to be controlled:			
		Zink Oxide (CAS 1314-13-2): MAK (A): (airborne fraction)	5 mg/m3, (CH): 3 mg/m3
	Derived No-Effect Level (DNEL):			
	Predicted No-Effect Concentration (PNEC):			
		Zinc oxide:		
		Freshwater: 17.9 µg/l		
		Sea water: 9 μg/l		
		Fresh water sediment: 182.8 mg/kg		
		Sea water sediment: 201.9 mg/kg	- "	
		Sewage treatment system (STP): 0.125 Soil: 103.4 mg/kg	o mg/l	
		3011. 103.4 HIY/KY		
	Additional Information:			

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Technical protective measures:			
Personal Protection			
General protective measures:			
	Keep away from foodstuffs and drinks. Do not eat, drink or smol during work. Wash hands before breaks and at the end of work.		
	Avoid contact with eyes and skin.		
Respiratory protection:			
	In case of formation of dust.		
Hand protection:			
	Protective gloves (EN 374)		
	The manufacturer's directions for the because of the great diversity of ty		rved
Protective glove material:			
	Nitrile rubber (> 480 min, 0.11 mm).	
Eye protection:			
	Tightly fitting safety goggles (EN 1	66).	
Body protection:			
	Protective clothing.		
Environmental precautions:			
	Avoid contamination of sewage sy- ground water.	stem, open water w	ays and

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

•	•
Form:	powder
Color:	white
Odor:	odorless
Odor threshold:	
	no information available
pH-Value:	7 (50 g/l; 20°C)
Melting temperature:	1975°C (OECD 102)
Boiling temperature:	
	not determined
Flash point:	
	not applicable
Evaporation rate:	
	No information available.
Flammability (solid, gas):	
	not flammable
Upper explosion limit:	· · · · · · · · · · · · · · · · · · ·
	no information available

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Page 6 Revised edition: 10.08.2023 Version: 5 Printed: 10.10.2023 Lower explosion limit: no information available Vapor pressure: not determined Vapor density: No information available. Density: 5.60 g/cm3 (20°C) Solubility in water: 1.6 mg/l Coefficient of variation (n-Octanol/Water): not determined Auto-ignition temperature: Product is not auto-ignitable. > 2000°C (lit.) Decomposition temperature: Viscosity, dynamic: not applicable Explosive properties: Product does not present an explosion hazard. Oxidizing properties: no information available Bulk density: 300 - 500 kg/m3 9. 2. **Further Information** Solubility in solvents: Viscosity, kinematic: Burning class: Solvent content: Solid content: Particle size: Other information: 10. **Stability and Reactivity** 10.1. Reactivity No information available. 10.2. **Chemical Stability** No decomposition if used according to specifications. 10.3. **Possibility of Hazardous Reactions** Reacts with strong acids and bases.

Conditions to Avoid Conditions to avoid:

10.4.

No decomposition if used according to specifications.

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	Thermal decomposition:					
10.5.	Imcompatible Materials	Aluminium, magnesium				
10.6.	Hazardous Decomposition Products	Aluminum, magnesium				
10101		None known.				
10.7.	Further Information					
11.	Toxicological Information					
11. 1.	Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008					
	Acute Toxicity					
	LD50, oral:	> 2000 mg/kg (rat; OECD 423)				
	LD50, dermal:	> 2000 mg/kg (rat; OECD 402)				
	LC50, inhalation:	> 5.7 mg/l (4h, rat)				
	Primary effects					
	Irritant effect on skin:					
		Dust may cause irritation.				
	Irritant effect on eyes:					
		Product dust may cause irritation.				
	Inhalation:					
		No information available.				
	Ingestion:	No information available				
	Constituention	No mornation available				
	Sensitization:	No sensitizing effects known.				
	Mutagenicity:					
	matagemeny.	No relevant data found.				
	Reproductive toxicity:					
		No relevant data found.				
	Carcinogenicity:					
		No relevant data found.				
	Teratogenicity:					
		No information available.				
	Specific target organ toxicity (STOT):	Single exposure: Not classified based on	available infi	ormation		
		Repeated exposure: Not classified based				
	Aspiration hazard:					
		No risk of aspiration.				
11. 2.	Information on other Hazards					
		Endocrine Disrupting Properties: no inforr	nation availa	ible.		

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Waste Code No.:



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12. 1.	Aquatic Toxicity		
	Fish toxicity:	LC50: 2.525 mg/l (96h; Danio r Oncorhynchus mykiss; OECD 2	
	Daphnia toxicity:		,
		EC50: 1 mg/l (48h, Daphnia ma (21d, Daphnia magna; OECD 2	agna; OECD 202); EC50: 0:08 mg/l 11)
	Bacteria toxicity:		
		No data available.	
	Algae toxicity:	NOEC: 0.024 mg/l (72h, Pseud 201)	okirchneriella subcapitata: OECD
12. 2.	Persistency and Degradability	- /	
		Methods for the evaluation of the applicable for inorganic substar	ne biological degradability are not nces.
12. 3.	Bioaccumulation		
		Bioaccumulation is not to be ex	pected.
12. 4.	Mobility	Log K: 3,24 (OECD 106)	
12. 5.	Results of PBT- und vPvP Assessment	209 11: 0,21 (02:00 100)	
		This product is neither a PBT o contain a PBT or vPvB substan	
12. 6.	Endocrine Disrupting Properties		
		This product does not contain c endocrine disrupting properties	components considered to have
12. 7.	Other Adverse Effects		
	Water hazard class:		
		2 (German Regulation) (Assess	sment by list): hazardous.
	Behaviour in sewage systems:		
	Further ecological effects:		
		Prevent product from entering s	
		Very toxic for water organisms.	
	AOX Value:		
13.	Disposal Considerations		
13. 1.	Waste Treatment Methods		
	Product:	Dispose of according to official	national and local regulations
	Europeon Maste Code (EMO)	Dispose of according to official	nalional and 100al reguldlions.
	European Waste Code (EWC):	The waste code must be deterr disposal service.	nined together with the regional
	Uncleaned packaging:		

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14.	Transport Information		
14. 1.	UN Number		
	ADR, IMDG, IATA	3077	
14. 2.	UN Proper Shipping Name		
	ADR/RID:	UMWELTGEFÄHRDENDER STO	FF, FEST, N.A.G. (Zinkoxid)
	IMDG/IATA:	ENVIRONMENTALLY HAZARDO (Zinc oxide)	US SUBSTANCE, SOLID, N.O.S
14. 3.	Transport Hazard Classes		
	ADR Class:	9	
	Hazard no.:	9	
	Classification code:	M7	
	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:	III	
	IMDG:	III	
	IATA:	III	
14. 5.	Environmental Hazards		
		Labelling according 5.2.1.8 ADR/R Labelling according 5.2.1.6.3 IMD	
14. 6.	Special Precautions for User		
		Not classified as dangerous goods smaller or equal to 5 kg / L	s class 9 when packaging is
14. 7.	Maritime Transport in Bulk according to IMO		
14. 8.	Further Information	IMDG: not applicable	
14. o. 15.	Regulatory Information		
15. 1.	Safety, Health and Environmental Regulation	s/l egislation specific for the Substance of	or Mixture
10. 1.	Water hazard class:		
		2, hazardous for water (German R	Regulation)
	Local regulations on chemical accidents	X.	
	_	Seveso-III Directive (2012/18/EU):	
		Environmentally hazardous (E1); A	Amount 1: 100 t; Amount 2: 200 t
	Employment restrictions:	The employment restrictions for yo	oung workers in accordance with next page: 10

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		the Youth Employment Prot	tection Law are to be observed.
	Restriction and prohibition of application	n:	
	Technical instructions on air quality:		
15. 2.	Chemical Safety Assessment		
		A Chemical Safety Assessn product.	nent has been carried out for this
		candidate list for substance	t does not contain a substance in the s of very high concern above the legal EACH Regulation (EC) 1907/2006,
15. 3.	Further Information		
		EC. REACH, Annex XIV, Ca High Concern (SVHC): not	andidate List of Substances of very regulated / not applicable
		Regulation (EC) 1005/2009 Layer: not regulated / not ap	- Substances that Deplete the Ozone oplicable
		Regulation on Persistent Or	rganic Polutants (POP): not listed
		Regulation (EC) 649/2012 c dangerous chemicals: Not a	concerning the export and import of applicable
			C on the Restriction of the Use of aces in Electrical and Electronic ad.
			148, Annex I - Restricted Explosives e for the purpose of licensing under gredients is listed.
16.	Other Information		
		with good hygiene practices regulations. This information present state of knowledge from the point of view of saf	ed, handled and used in accordance s and in conformity with any legal n contained herein is based on the and is intended to describe our product fety requirements. It should be as guaranteeing specific properties.