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

## 54100 Bismuth White



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1.	Identification of the Substance/Mi	xture and of the Company/Undertak	ing
1. 1.	Product Identifier		
	Product Name:	Bismuth White	
	Article No.:	54100	
1. 2.	Relevant identified Uses of the Substance or I	Mixture and Uses advised against	
	Identified uses:	Formulation of coatings, formulation of s various purposes, formulation of function Industrial use: manufacture of glass, dist substances/mixtures, packaging of subs various purposes, coating applications, u agent, functional fluids. Professional workers: coating application parting agent, functional liquids.	al liquids. ribution of tances / mixtures for use as vehicle and parting
	Uses advised against:		
1. 3.	Details of the Supplier of the Safety Data Shee	et (Producer/Importer)	
	Company:	Kremer Pigmente GmbH & Co. KG	
	Address:	Hauptstr. 41-47, 88317 Aichstetten, Geri	many
	Tel./Fax.:	Tel +49 7565 914480, Fax +49 7565 160	06
	Internet:	www.kremer-pigmente.de	
	EMail:	info@kremer-pigmente.de	
	Importer:		
1. 4.	Emergency No.		
	Emergency No.:	+49 7565 914480 (Mon-Fri 8:00 - 17:00)	
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 classificati hazardous according to CLP/GHS.	on and labelling as
	Classification according to Directive No. 67/548/EC or No. 1999/45/EC		
	Safety Phrases:		
	Possible Environmental Effects:		
2. 2.	Label Elements		
	Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)	This product does not require classificati hazardous according to CLP/GHS.	ion and labelling as
	Hazard designation:	Not applicable.	
	Signal word:		

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	Hazard designation:			
	Safety designation:			
	Hazardous components for labelling:			
2. 3.	Other Hazards			
3.	Composition/Information on Ingree	dients		
3. 1.	Substance			
3. 2.	Mixture			
	Chemical Characterization:	Bismuth hyroxide nitrate oxid	de	
	Information on Components / Hazardous Ingredients: Bismuth subnitrate; REACH Reg. No. 01-	> 99.9 %	CAS-Nr: 1304-85-4	
	2119966129-28-0000		EINECS-Nr: 215-138-8 EC-Nr:	
	Additional information:			
4.	First Aid Measures			
4. 1.	Description of the First Aid Measures			
	General information:			
		Take affected persons out in	to the fresh air.	
	After inhalation:			
		Supply fresh air.		
	After skin contact:			
		Wash off with plenty of wate	r.	
	After eye contact:	Rinse eyes with water.		
		Rinse eyes with water.		
	After ingestion:	Contact poison center or phy	vsician if feeling unwell	
4. 2.	Most important Symptoms and Effects, both A		, erenan in reening ann eni	
	Symptoms:	,		
	eynipterie:	No further information availa	ble.	
	Effects:			
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:			
		Foam, extinguishing powder	, water spray jet.	
	Unsuitable extinguishing media:			

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5. 2.	Special Hazards arising from the Substance		
	Special hazards:		
		In case of fire: formation of toxic gases	s/vapors.
5. 3.	Advice for Firefighters		
	Protective equipment:		
		Wear self-contained respiratory protec Wear suitable protective clothing.	ctive device.
	Further information:		
6.	Accidential Release Measures		
6. 1.	Personal Precautions, Protective Equipment	and Emergency Procedures	
0. 1.	Personal precautions:		
	r ersonar precautoris.	Ensure adequate ventilation.	
6. 2.	Environmental Precautions		
	Environmental precautions:		
		Prevent contamination of soils, drains	and surface water.
6. 3.	Methods and Material for Containment and 0	Cleaning Up	
	Methods and material:		
		Take up mechanically and collect in su disposal.	uitable containers for
6. 4.	Reference to other Sections	,	
		See Section 13 for information on disp	oosal.
7.	Handling and Storage		
7. 1.	Precautions for Safe Handling		
	Instructions on safe handling:		
		Provide adequate ventilation.	(0, 0, 0, 0, 0)
		Wear adequate protective clothing (se	e para. 0).
	Hygienic measures:	Do not eat or drink during work. Do no	ot smoke.
		Wash hands before breaks and after v	
7. <b>2</b> .	Conditions for Safe Storage, including any l	ncompatibilities	
	Storage conditions:		
		Store at room temperature.	
	Requirements for storage areas and containers:		
	Information on fire and explosion protection:		
		No information available.	
	Storage class (VCI):		
	Further Information:		
7.3.	Specific End Use(s)		

Further information:

Color:

Odor:

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<b>8.</b>	Exposure Controls/Personal Pro		T finted.	11.03.2017
8. 1.	Parameters to be Controlled			
••••	Parameters to be controlled (DE):			
		none known		
	Parameters to be controlled:			
	Derived No-Effect Level (DNEL):			
	20.1100 110 <u>2.1001</u> <u>2010</u> (2.12 <u>2</u> ).	2.7 mg/m3 (worker, inhalation, long-te effects)	erm exposition -	systemic
	Predicted No-Effect Concentration (PNEC):			
		Fresh water: 137 µg/l		
		Sea water: 13.7 µg/l	_	
		Fresh water sediment: 14176.5 mg/kg		
		Sea water sediment: 1417.7 mg/kg dv Oral: 120.3 mg/kg dw	V	
		Oral (secondary poisoning): 33.3 mg/l	ka (food)	
		Intermittent release: 1.35 mg/l	(j (iood)	
	Additional Information:	5		
8. 2.	Exposure Controls			
	' Technical protective measures:			
		Provide adequate ventilation/exhaust	system.	
	Personal Protection			
	General protective measures:			
		Do not eat, drink or smoke during wor	k.	
	Respiratory protection:			
		Required in case of insufficient ventila	tion.	
	Hand protection:			
		Protective gloves (EN 374)		
	Protective glove material:			
	Eye protection:			
		Safety glasses (EN 166)		
	Body protection:			
		Protective clothing.		
	Environmental precautions:			
		Prevent from getting into the soil, surfa system.	ace water and s	sewage
9.	Physical and Chemical Propertie	es		
9. 1.	Information on Basic Physical and Chemic	al Properties		
	Form:	powder		

white

odorless

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Burning class:



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	Odor threshold:			
		No information available.		
	pH-Value:			
		not available		
	Melting temperature:			
		not applicable		
	Boiling temperature:	not available		
	Flash point:	not applicable		
	Evaporation rate:			
		No information available.		
	Flammability (solid, gas):			
		not flammable		
	Upper explosion limit:			
		no information available		
	Lower explosion limit:			
		no information available		
	Vapor pressure:			
	Vapor density:			
		No information available.		
	Density:	5.29 g/cm3		
	Solubility in water:	not readily soluble 788.9 - 1014.5 mg/l (20°C)		
	Coefficient of variation (n-			
	Octanol/Water):	no information available		
	Auto-ignition temperature:			
	2	260%0		
	Decomposition temperature:	260°C		
	Viscosity, dynamic:	not available		
	Explosive properties:			
	Explosive properties.	not available		
	Oxidizing properties:			
		No information available.		
	Bulk density:			
9. 2.	Further Information			
	Solubility in solvents:			
	Viscosity, kinematic			
	• ·			

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	Solvent content:	Version, 2.0	i inited.	11.00.2	.017
	Solid content:				
	Particle size:				
	Other information:				
10.	Stability and Reactivity				
10.1.	Reactivity				
		Stable if used according to specification	S.		
10.2.	Chemical Stability				
		Stable if used according to specification	S.		
10.3.	Possibility of Hazardous Reactions	Unknown.			
10.4.	Conditions to Avoid	onniown.			
	Conditions to avoid:				
		No further information available.			
	Thermal decomposition:				
10.5.	Imcompatible Materials				
		None known.			
10.6.	Hazardous Decomposition Products	None if stored and handlad apparding to	anacification	-	
10.7.	Further Information	None if stored and handled according to	specifications	5.	
11.	Toxicological Information				
11. 1.	Information on Toxicological Effects				
	Acute Toxicity				
	LD50, oral:	> 2000 mg/kg (rat)			
	LD50, dermal:	22000 mg/ng (rul)			
	ED30, dermai.	No information available.			
	LC50, inhalation:	> 5.07 mg/l (4h,rat)			
	Primary effects				
	Irritant effect on skin:				
		No information available			
	Irritant effect on eyes:				
		No information available.			
	Inhalation:				
		No information available.			
	Ingestion:				
	Constituention	No information available			
	Sensitization:	No relevant data found.			
	Mutagenicity:				

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-	Reproductive toxicity:		
		No relevant data found.	
	Carcinogenicity:		
		No relevant data found.	
	Teratogenicity:	No volovent data formal	
		No relevant data found.	
	Specific target organ toxicity (STOT):	No relevant data found.	
	Additional toxicological information:		
	Additional toxicological information.	Aspiration hazard: not applicable	
12.	Ecological Information		
12. 1.	Aquatic Toxicity		
		The product is not considered to a nor to cause long-term adverse e	
	Fish toxicity:		
		> 137 mg/l (Danio rerio; Freshwa Temperature 21.7-22.5°C; pH 7.0	
	Daphnia toxicity:		
		> 137 mg/l  (Freshwater; Hardnes 20.3-20.5°С; pH 7.7-7.9)	ss 250 mg CaCO3/l; Temperature
	Bacteria toxicity:		
		no information available	
	Algae toxicity:		
40.0		> 137 mg/l (Pseudokirchneriella s	ubcapitata)
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		
		No data available.	
12. 6.	Other Adverse Effects		
	Water hazard class:		
		Not hazardous.	
	Behaviour in sewage systems:		
	Further ecological effects:		
		Do not let product enter waterway	/s or sewage system.
	AOX Value:		
13.	Disposal Considerations		
13. 1.	Waste Treatment Methods		

Product:

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		Dispose of according to official n	ational and local regulations.
	European Waste Code (EWC):		
	Uncleaned packaging:		
	Waste Code No.:		
14.	Transport Information		
14. 1.	UN Number		
	ADR, IMDG, IATA		
14. 2.	UN Proper Shipping Name		
	ADR/RID:		
		No hazardous goods according a	to ADR (land transportation).
	IMDG/IATA:		
14. 3.	Transport Hazard Classes	No hazardous goods according a	O IMDG.
	-		
	ADR Class:	not applicable	
	Hazard no.:		
	Classification code:		
	Tunnel restriction code:		
	IMDG Class (sea):		
	Hazard no.:		
	EmS No.:		
	IATA Class:		
		not applicable	
	Hazard no.:		
14. 4.	Packaging Group		
	ADR/RID:		
		not applicable	
	IMDG:		
	IATA:		
14. 5.	Environmental Hazards		
44.0		None	
14. 6.	Special Precautions for User	Not classified as a dangerous go	ood under transport regulations.
14. 7.	Transportation in Bulk according to Anne		
		not applicable	
14. 8.	Further Information		
15.	Regulatory Information		

15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

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	Water hazard class:			
		0, not hazardous (German Regulation	, Assessment b	y list)
	Local regulations on chemical accidents:			
		Does not underlie the Accident Ordina	ance.	
	Employment restrictions:			
	Restriction and prohibition of application:			
		EC. REACH, Section XVII, Restriction Placing on the Market and Use of Cer		
		Preparations and Articles: not applica		,
	Technical instructions on air quality:			
15. 2.	Chemical Safety Assessment			
15. 3.	Further Information			
		EC. REACH, Annex XIV, Candidate L High Concern (SVHC): not regulated		es of very
		Listed in:		
		EINECS (EU), TSCA (US), AICS (AU PICCS (PH), ECL (KR), NZIOC (NZ),		NCS (JP),
16.	Other Information			
		This product should be stored, handle with good hygiene practices and in co regulations. This information containe present state of knowledge and is inte from the point of view of safety require therefore not be construed as guarant	nformity with an d herein is base ended to describ ements. It shoul	ny legal ed on the ne our product d be