Zirconium Cerulean Blue 45400 PIGMENTE Page 1 Revised edition: 04.02.2018 Version: 9 Printed: 28.08.2019 1. Identification of the Substance/Mixture and of the Company/Undertaking 1.1. **Product Identifier** Product Name: Zirconium Cerulean Blue Article No.: 45400 1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against Identified uses: Pigment Coloring agent Uses advised against: 1.3. Details of the Supplier of the Safety Data 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 - 17:00) **Poison Center:** 1.4.2 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 classification 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) This product does not require classification and labelling as hazardous according to CLP/GHS. Hazard designation: Not applicable. Signal word: Hazard designation: Safety designation: Hazardous components for labelling: Other Hazards 2.3. 3. **Composition/Information on Ingredients** Substance

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3. 1.				
3. 2.	Mixture			
	Chemical Characterization:	Inorganic pigment, Pigment Blue 71, C.I. 7	7998	
	Information on Components / Hazardous Ingredients:			
	Additional information:			
4.	First Aid Measures			
4. 1.	Description of the First Aid Measures			
	General information:			
		No special measures required.		
	After inhalation:			
		Supply fresh air. If required give artificial rewarm.	espiration. k	Keep patient
	After skin contact:			
		In case of skin irritation consult physician.		
		Do not use solvents or thinners.		
	After eye contact:			
		Rinse open eyes with plenty of water for a	t least 15 m	ninutes.
	After ingestion:			
		Rinse mouth with plenty of water and cons Do not induce vomiting.	sult physicia	in.
4. 2.	Most important Symptoms and Effects, both A	•		
	Symptoms:			
	Symptoms.	No further information available.		
	Effects:			
4. 3.	Indication of any Immediate Medical Attention and special Treatment needed			
	Treatment:			
	neament.	No further information available.		
5.	Fire-Fighting Measures			
5. 1.	Extinguishing Media			
	Suitable extinguishing media:			
		Carbon dioxide (CO2), extinguishing powe	der.	
		Fight larger fire with water jet or alcohol re	sistant foan	n.
	Unsuitable extinguishing media:			
		Water with full jet.		
5. 2.	Special Hazards arising from the Substance or	r Mixture		
	Special hazards:			
		In case of fire: formation of carbon oxides	and smoke.	
5. 3.	Advice for Firefighters			
	Protective equipment:			

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		protective gear.		
	Further information:			
6.	Accidential Release Measures	Cool exposed containers with water sp	oray.	
 Accidential Release Measures 6. 1. Personal Precautions, Protective Equipment and Emergency Procedures 		t and Emergency Brocodures		
0. 1.		Land Lineigency Procedures		
	Personal precautions:	Ensure adequate ventilation.		
6. 2.	Environmental Precautions			
	Environmental precautions:			
		No special measures required.		
6. 3.	Methods and Material for Containment and	Cleaning Up		
	Methods and material:			
		Take up mechanically and collect in su disposal. Avoid dust formation.	itable containe	rs for
6. 4.	Reference to other Sections			
		Protective clothing, see Section 8. Dispose of contaminated material acco	ording to Sectio	n 13
7.	Handling and Storage			
7. 1.	Precautions for Safe Handling			
	Instructions on safe handling:			
		Avoid formation and deposition of dust ventilation.	. Provide adequ	uate
	Hygienic measures:			
		Keep away from foodstuffs and drinks. during work. Wash hands before break		
7. 2.	Conditions for Safe Storage, including any I	ncompatibilities		
	Storage conditions:			
		Store in tightly sealed containers in a c Keep away from ignitable sources, hea	-	om.
		Store between 5 - 35°C.		
	Requirements for storage areas and containers:			
		Store the product in the original contain	ner.	
	Information on fire and explosion protection:			
	Storage class:			
	Further Information:			
		Do not store together with: foodstuffs,	beverages and	feed.
7. 3.	Specific End Use(s)			
	Further information:			

8. Exposure Controls/Personal Protection

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8. 1.	Parameters to be Controlled	-				
	Parameters to be controlled (DE):	Does not contain any compone	nts with workplace limi	t values.		
	Parameters to be controlled:					
	Derived No-Effect Level (DNEL):					
	Predicted No-Effect Concentration (PNEC):					
	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 and		orking.		
	Respiratory protection:	Respiratory equipment required filter type P2.	l in case of insufficient	ventilation,		
	Hand protection:	Protective gloves				
	Protective glove material:	Polyvinyl chloride (> 480 min, 0).35 mm)			
	Eye protection:	Safety glasses (EN 166)				
	Body protection:					
	Environmental precautions:					
9.	Physical and Chemical Propertie	S				
9. 1.	Information on Basic Physical and Chemical Properties					
	Form:	powder				
	Color:	blue				
	Odor:	odorless				
	Odor threshold:	No information available.				
	pH-Value:	not determined				
	Melting temperature:	not applicable				
	Boiling temperature:	not available				

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	Flash point:			
		not applicable		
	Evaporation rate:			
		This product is a non-volatile solid.		
	Flammability (solid, gas):	not applicable		
	Upper explosion limit:			
		no information available		
	Lower explosion limit:			
		no information available		
	Vapor pressure:			
		not applicable		
	Vapor density:	No information available.		
	Density:	2.55 g/cm3		
	Solubility in water:	insoluble		
	Coefficient of variation (n-	monulo		
	Octanol/Water):	not applicable		
	Auto-ignition temperature:			
	, isto ignition to hip of state of	not applicable		
	Decomposition temperature:			
		No data available.		
	Viscosity, dynamic:			
		not applicable		
	Explosive properties:	not applicable		
	Oxidizing properties:			
	Oxidizing properties.	no information available		
	Bulk density:			
9. 2.	Further Information			
	Solubility in solvents:			
	Viscosity, kinematic			
	Burning class:			
	Solvent content:			
	Solid content:			
	Particle size:			

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Page 6 Revised edition: 04.02.2018 Version: 9 Printed: 28.08.2019 10. **Stability and Reactivity** 10.1. Reactivity Stable if used according to specifications. 10.2. **Chemical Stability** Stable if used according to specifications. 10.3. **Possibility of Hazardous Reactions** Unknown. 10.4. **Conditions to Avoid** Conditions to avoid: No further information available. Thermal decomposition: 10.5. **Imcompatible Materials** Strong acids and alkalies. 10.6. **Hazardous Decomposition Products** None if stored and handled according to specifications. 10.7. **Further Information** 11. **Toxicological Information** 11.1. Information on Toxicological Effects No toxicity expected. Acute Toxicity LD50, oral: LD50, dermal: LC50, inhalation: Primary effects Irritant effect on skin: No irritant effect known. Irritant effect on eyes: No irritant effect known. Inhalation: No irritant effect known. Ingestion: No irritant effect known. Sensitization: No sensitizing effects known. Mutagenicity: No mutagenic effects known. Reproductive toxicity: No negative effects known. Carcinogenicity:

No relevant data found.

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Revised edition: 04.02.2018 Version: 9 Printed: 28.08.2019 Teratogenicity: No relevant data found. Specific target organ toxicity (STOT): No relevant data found. Additional toxicological information: Skin contact: repeated or long-term contact with the product can cause skin irriatation and dermatitis. Eye contact: dust particles can cause mechanical irritation. 12. **Ecological Information** 12.1. **Aquatic Toxicity** No toxicity expected. Fish toxicity: Daphnia toxicity: Bacteria toxicity: Algae toxicity: 12.2. Persistency and Degradability Inorganic product is not very soluble in water and can thus be removed from water mechanically in suitable effluent treatment plants. 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: Do not let run into surface waters, waste water or soil. Behaviour in sewage systems: Further ecological effects: AOX Value: 13. **Disposal Considerations** 13.1. Waste Treatment Methods Product: Dispose of product residues according to the waste disposal guidelines 2008/98/EC as well as according to official national and local regulations. European Waste Code (EWC): Uncleaned packaging: Dispose of according to official local regulations. Waste Code No .:

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14.	Transport Information				
14. 1.	UN Number				
	ADR, IMDG, IATA				
14. 2.	UN Proper Shipping Name				
	ADR/RID:				
		No hazardous goods accordii	ng to ADR (land transportation).		
	IMDG/IATA:				
		No hazardous goods accordii	ng to IMDG.		
14. 3.	Transport Hazard Classes				
	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	Net cleasified as an vivament	telle bezerdene		
14. 6.	Special Precautions for User	Not classified as environment	tally hazardous.		
14. 0.	Special Precautions for User	Not classified as a dangerous	s good under transport regulations.		
14. 7.	Transportation in Bulk according to A	nnex II of MARPOL 73/78 and IBC-Code	5 , 5		
		not applicable			
14. 8.	Further Information				
15.	Regulatory Information				
15. 1.	Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture				
	Water hazard class:				
		0, not hazardous (German Re	egulation)		
	Local regulations on chemical acc				
		Seveso III Directive: not appli	icable under Directive 2012/18/EC.		

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	Restriction and prohibition of application	n:	
	Technical instructions on air quality:		
15. 2.	Chemical Safety Assessment		
		A Chemical Safety Assessment is no	t necessary for this product.
15. 3.	Further Information		
		Regulation (EC) 1005/2009 - Substances that Deplete the Ozone Layer: not regulated / not applicable	
		Regulation (EC) 649/2012 concerning dangerous chemicals: Not applicable	
		VOC Content (w/w): 0 %	
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 into from the point of view of safety requir	onformity with any legal ed herein is based on the ended to describe our product

therefore not be construed as guaranteeing specific properties.