

CRISTAL 128

Material Safety Data

Product Identification			
Trade name	CRISTAL 128		
Manufactured by	The National Titanium Dioxide Co. Ltd PO Box 13586 Jeddah 21414 Kingdom of Saudi Arabia		
Telephone	+966 (0)2 651 9883		
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Composition/Information on Ingredients The preparation consists of the following			
Material	CAS Number	Typical Range (%)	
Titanium dioxide	13463-67-7	94.0 – 97.0	
Aluminium hydroxide	21645-51-2	2.0 - 4.0	
Zirconium oxide	1314-23-4	0.3 – 1.0	
A fractional percentage of organic additive is also present. None of the above substant	ces are reported as potential carcinogens by C	OSHA.	
Hazards Information Adverse human health effects			
Preliminaries	Inert nuisance dust. Can cause lung irritation.		
Primary route of entry	Inhalation of airborne dust.		
Symptoms of exposure	Coughing, sneezing or irritation of the mucous membrane.		
Restrictive conditions	Breathing or respiratory tract disorder/disease would be aggravated by exposure to airborne dust.		
Eyes	Inert foreign body hazard.		
First Aid Measures			
Inhalation	Remove to fresh air.		
Eyes	Flush with large amounts of water. If irritation persists, seek medical attention.		
Skin	Wash with water and mild soap.		
Ingestion	No adverse health effects during the course of normal industrial handling. If large quantities ingested, seek medical attention.		
Fire Fighting Methods			
Extinguishing media	No fire hazard.		
Precautions should be taken against static discharge of electricity during powder handling operations.			
Accidental Release Measures			
Use any mechanical means to remove powder. Avoid dusting. Preve	nt entry to natural waterways.		
Handling and Storage			
Handling	Use suitable ventilation to prevent excessive inhalation and skin contact. Avoid static discharge during powder handling operations.		
Storage	Store in dry area. Wet material m	ay become very slippery.	
Exposure Controls/Personal Protection			
Exposure control	Generally handle in areas of good is over or thought to approach the standard, local exhaust may be ne	e occupational exposure	
Respiratory protection	Use approved dust respirator if O	ES is likely to be exceeded.	
Hand protection	Use gloves for prolonged/repeated contact.		
Eye protection	Use safety glasses/goggles.		
Skin protection	Wear normal protective overalls. S further by use of a barrier cream		

Physical and Chemical Properties		
Appearance	Fine white powder	
Odour	Odourless	
pH	7.5 (Typical) 10% slurry	
Melting point °C	1,840	
Boiling point °C	2,500 – 3,000	
Decomposition °C	N/A	
Flash point °C	N/A	
Autoignition °C	N/A	
Explosion properties	N/A	
Relative density	4.1 (water = 1)	
Solubility (water)	Insoluble	
Other data	-	
Bulk density kg/l	0.64 – 0.88	

Stability and Reactivity This product is chemically stable, and non-reactive

Conditions to avoid	None
Materials to avoid	None
Hazardous decomposition	None

Toxicological Information This product is non-toxic and physiologically harmless

Occupational exposure limits:

Titanium dioxide (OES)

10 mg/m³ total inhalable (8 hour TWA) 5 mg/m³ respirable dust (8 hour TWA)

Ecological Information

No known harmful effects on Goldorfen (Leuciscus Idus) with 1 g/litre concentration (Maximum testing). Water flea (Daphnia Magna) with 1 g/litre concentration (No aquatic Toxicity). Available evidence suggests that titanium dioxide does not cause any significant adverse environmental effects.

Disposal

This product does not constitute any known hazard for disposal into sanitary landfill or industrial waste disposal landfill. Attention should however be paid to local and national waste regulations.

Transport Information

This material is not classified as a dangerous good by international transport regulations.

Regulatory Information

No Hazard Labelling is required for this Product. This product is given an OES under the Control of Substances Hazardous to Health regulations, as per the Health and Safety Executive in the United Kingdom.

Other Information

None.

The above is provided for guidance only.

For further information contact Cristal Technical Sales and Services TEL: +966 (0)2 651 9883 / 653 0104 FAX: +966 (0)2 651 8757 / 653 3382 EMAIL: info@cristalarabia.com



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