

CRISTAL 122

Material Safety Data

Product Identification		
Trade Name	CRISTAL 122	
Manufactured by	The National Titanium Dioxide Co. Ltd PO Box 13586 Jeddah 21414 Kingdom of Saudi Arabia	
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Composition/Information on Ingredients The preparation consists of the following		
Material	CAS Number	Typical Range (%)
Titanium dioxide	13463-67-7	92.0 – 95.0
Aluminium hydroxide	21645-51-2	2.0 – 4.0
Amorphous silica	112926-00-8	2.0 – 4.0
A fractional percentage of organic additive is also present. None of the above substances are reported as potential carcinogens by 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. Prevent 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 may become very slippery.	
Exposure Controls/Personal Protection		
Exposure control	Generally handle in areas of good ventilation. If airborne dust is over or thought to approach the occupational exposure standard, local exhaust may be necessary.	
Respiratory protection	Use approved dust respirator if OES 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. Sensitive skin can be protected further by use of a barrier cream or moisturiser.	

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/m ³ total inhalable (8 hour TWA) 5 mg/m ³ 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

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