

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: GB/T 16483-2008, GB/T 17519-2013

Product Name CHT Ceramic Hydroxyapatite Type I (20 um, 40 um, 80 um) Revision date 14-Dec-2022 **Revision Number** 1.2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier		
Product Name	CHT Ceramic Hydroxyapatite Type I (20 um, 2	40 um, 80 um)
Catalogue Number(s)	1570020, 1570021, 1570025, 1570040, 15700 1582000, 1584000, 1588000, 9704527, 12017	
English chemical name	Hydroxylapatite (Ca5(OH)(PO4)3)	
Other means of identification		
CAS No	1306-06-5	
Pure substance/mixture	Substance	
Details of the supplier of the safety	data sheet	
Corporate Headquarters Bio-Rad Laboratories Inc. 1000 Alfred Nobel Drive Hercules, CA 94547 USA	<u>Manufacturer</u> Bio-Rad Laboratories, Life Science Group 2000 Alfred Nobel Drive Hercules, California 94547 USA	Legal Entity / Contact Address Bio-Rad Laboratories Ltd. 1st and 2nd Floor, Lumpini 1 Building 239/2, Rajdamri Road, Lumpini, Pathumwan, Bangkok 10330 Thailand
Technical Service	+66 2 652 8313 ctsthailand@bio-rad.com	
Emergency telephone number		
24 Hour Emergency Phone Number	CHEMTREC Hong Kong: 800-968-793	
Recommended use of the chemical	and restrictions on use	
Recommended use	Laboratory chemicals	
SECTION 2: Hazards ident	ification	
Emergency Overview No significant adverse health effects		
Appearance crystalline	Physical state Solid	Odour Odourless
Classification of the substance or mixture		
Not classified		
Label elements		

Hazard statements

Not classified

Physical and chemical hazards Not applicable.

Health hazards

Immediate Health Effects: Not applicable. Chronic effects: Not applicable.

Environmental hazards Not applicable

Other hazards which do not result in classification Not applicable

SECTION 3: Composition/information on ingredients

Substance

CAS No

1306-06-5

Not classified.

Chemical name	Weight-%	CAS No
Hydroxylapatite (Ca5(OH)(PO4)3)	50 - 100	1306-06-5

SECTION 4: First aid measures		
Description of necessary first aid measures		
General advice	No hazards which require special first aid measures.	
Inhalation	Remove to fresh air.	
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.	
Skin contact	Wash skin with soap and water.	
Ingestion	Rinse mouth thoroughly with water.	
Most important symptoms and effects, both acute and delayed	No information available.	
For emergency responders	No information available.	
Note to doctors	Treat symptomatically.	

SECTION 5: Firefighting measures

Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	No information available.
Specific hazards arising from the chemical	No information available.
Special protective actions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures		
Personal precautions	See section 8 for more information.	
For emergency responders	Use personal protection recommended in Section 8.	
Environmental precautions	See Section 12 for additional Ecological Information.	
Methods and material for containment and cleaning up	Prevent further leakage or spillage if safe to do so. Pick up and transfer to properly labelled containers.	
Precautions to prevent secondary	Clean contaminated objects and areas thoroughly observing environmental regulations.	

SECTION 7: Handling and	storage
Precautions for safe handling	Handle in accordance with good industrial hygiene and safety practice. See Section 8 for information on appropriate personal protective equipment.
Conditions for safe storage, including any incompatibilities	Store according to product and label instructions.
Incompatible materials	None known based on information supplied.

SECTION 8: Exposure controls/personal protection

<u>Occupational exposure limits</u> This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Note

hazards

See section 16 for terms and abbreviations

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

Monitoring and observation processes

No applicable information was found.

Engineering controls	Showers Eyewash stations Ventilation systems.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields (or goggles).	
Skin and body protection	Wear suitable protective clothing.	
Hand protection	Wear suitable gloves.	
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.	
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.	

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

information on pasic physical and t		
Appearance	crystalline	
Colour	white	
Physical state	Solid	
Odour	Odourless	
Odour threshold	No information available	
Property	Values	Remarks • Method
рН		None known
Melting point / freezing point	No data available	Not applicable
Boiling point / boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapour pressure	No data available	None known
Vapour density	No data available	None known
Relative density	No data available	None known
Water solubility	Insoluble in water	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Additional information		
Explosive properties	Not applicable	
Oxidising properties	Not applicable	
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SECTION 10: Stability and reactivity

Stability

Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Sensitivity to mechanical impac Sensitivity to static discharge	t None. None.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products	None known based on information supplied.

SECTION 11: Toxicological information

Acute toxicity

Numerical measures of toxicity

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Hydroxylapatite (Ca5(OH)(PO4)3)	> 25350 mg/kg (Rat)	-	-
Skin corrosion/irritation	Based on available data, t	he classification criteria are not m	net.
Serious eye damage/eye irritati	on Based on available data, t	he classification criteria are not m	net.
Respiratory or skin sensitisation	n Based on available data, t	he classification criteria are not m	net.
Germ cell mutagenicity	Based on available data, t	he classification criteria are not m	net.
Carcinogenicity	Based on available data, t	he classification criteria are not m	net.
Reproductive toxicity	Based on available data, t	he classification criteria are not m	net.
Specific target organ toxicity – single exposure	 Based on available data, t 	he classification criteria are not m	net.
Specific target organ toxicity – repeated exposure	 Based on available data, t 	he classification criteria are not m	net.
Aspiration hazard	Based on available data, t	he classification criteria are not m	net.

SECTION 12: Ecological information

<u>Ecotoxicity</u>	The environmental impact of this product has not been fully investigated.
Persistence and degradability	No information available.
Bioaccumulative potential	No information available.
Mobility in soil	No information available.

SECTION 13: Disposal considerations

Waste chemicals	Dispose of in accordance with local regulations. Dispose of waste in accordance with
	environmental legislation.

<u>Contaminated packaging</u> Do not reuse empty containers.

SECTION 14: Transport information

IMDG	Not regulated
Transport in bulk according to	No information available
Annex II of MARPOL and the IB Code	С
IATA	Not regulated

China Not regulated

Special precautions for user

Please refer to the applicable dangerous goods regulations for additional information

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulations

Law of the People's Republic of China on Prevention and Control of Occupational Diseases

Catalogue of occupational hazard factors: Catalogue of occupational diseases:	Not applicable. Not applicable.			
Regulations on the Control over Safety of Hazardous Chemicals Inventory of hazardous chemicals	Not applicable.			
GB 18218-2009 Identification of major hazard installations for dangerous chemicals	Not applicable			
List of hazardous chemicals under priority management	Not applicable			
Regulations on Labour Protection in Workplaces Where Toxic Substances Are Used Inventory of highly toxic goods	Not applicable			
Regulations for Environmental Management on the First Import of Chemicals and the Import and Export of Toxic Chemicals				
List of toxic chemicals severely restricted for import and export in China	Not applicable			
Measures for the Environmental Management of New Chemical Substances IECSC - China Inventory of Existing Chemical Substances Contact supplier for inventory compliance status.				
International Regulations				
The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable				
The Stockholm Convention on Persistent Organic Pollutants Not applicable				

The Rotterdam Convention Not applicable

SECTION 16: Other information			
Prepared By	Bio-Rad Laboratories, Environmental Health and Safety		
Revision date	14-Dec-2022		
Revision Note	Reformatted and updated existing information.		
Abbreviations and acronyms Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit) Ceiling Maximum limit value * Skin designation C Carcinogen Key Iterature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency Chem View Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) Japan GHS Classification Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's PubMed database (NLM PUBMED) National Library of Medicine's Chemical Notification and Database (CCID) Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisatin for Economic Co-operation and Development			

Disclaimer

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End of Safety Data Sheet