

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME	CALCIUM HYDROXYAPATITE	
PRODUCT CODE	2377	
SUPPLIER	MEDISCA Inc. Tel.: 1.800.932.1039 Fax.: 1.855.850.5855 661 Route 3, Unit C, Plattsburgh, NY, 12901 6641 N. Belt Line Road, Suite 130, Irving, TX, 75063 MEDISCA Pharmaceutique Inc. Tel.: 1.800.665.6334 Fax.: 514.338.1693 4509 Rue Dobrin, St. Laurent, QC, H4R 2L8 21300 Gordon Way, Unit 153/158, Richmond, BC V6W 1M2 MEDISCA Australia PTY LTD Tel.: 1.300.786.392 Fax.: 61.2.9700.9047 Unit 7, Heritage Business Park 5-9 Ricketty Street, Mascot, NSW 2020	
EMERGENCY PHONE	CHEMTREC Day or Night Within USA and Canada: 1-800-424-9300 NSW Poisons Information Centre: 131 126 National Chemical Emergency Centre 44(0)1235239670	
RECOMMENDED USES	Manufacturing and Compounding	
RESTRICTIONS ON USE	Not applicable	

SECTION 2: HAZARDS IDENTIFICATION

GHS CLASSIFICATION	Based on available	e data, th	e classification c	riteria are not	t met.		
PICTOGRAM	Not Applicable						
SIGNAL WORD	Not applicable	Not applicable					
HAZARD STATEMENT(S)	Not applicable						
ADVERSE PHYSIOCHEMICAL, HUMAN	Not applicable						
HEALTH AND ENVIRONMENTAL EFFECTS							
PRECAUTIONARY STATEMENT(S)	Prevention	Not app	licable				
	Response	Not applicable					
	Storage	torage Not applicable					
	Disposal	Not app	licable				
HMIS CLASSIFICATION	Health Hazard		1		Flammability	0	
	Reactivity		0		Personal Protection	E	

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS



CHEMICAL NAME	Calcium Phosphate Hydroxide	Calcium Phosphate Hydroxide					
BOTANICAL NAME	Not applicable	Not applicable					
SYNONYM	Hydroxylapatite; Durapatite	Hydroxylapatite; Durapatite					
CHEMICAL FORMULA	Ca5HO13P3						
CHEMICAL FAMILY	Calcium salt	Calcium salt					
CAS NUMBER	1306-06-5	1306-06-5					
ALTERNATE CAS NUMBER	Not applicable	Not applicable					
MOLECULAR WEIGHT	502.307	502.307					
COMPOSITION	CHEMICAL NAME	CAS NUMBER	EC NUMBER	% BY WEIGHT			
	CALCIUM HYDROXYAPATITE	1306-06-5	215-145-7	100			

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as health hazards and hence require reporting in this section.

SECTION 4: FIRST-AID MEASURES

IN CASE OF EYE CONTACT	Flush with copious amounts of water for 15 minutes, separating eyelids with fingers. If irritation persists seek medical aid.
IN CASE OF SKIN CONTACT	Wash with soap & water for 15 minutes. If irritation persists seek medical aid.
IF SWALLOWED	Call a physician. Wash out mouth with water. Do not induce vomiting without medical advice.
IF INHALED	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician
MEDICAL ATTENTION AND SPECIAL TREATMENT	Get emergency medical help.
SYMPTOMS CAUSED BY EXPOSURE	Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 5: FIREFIGHTING MEASURES

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL	Not applicable.
FLAMMABLE PROPERTIES	May be combustible at high temperature.
HAZARDOUS COMBUSTION PRODUCTS	Under fire conditions, hazardous fumes will be present.
SUITABLE & UNSUITABLE EXTINGUISHING MEDIA	Small fire: dry chemical, CO ₂ or water spray. Large fire: dry chemical, CO ₂ , alcohol resistant foam or water spray. Do not get water inside containers.
PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	

Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

METHODS & MATERIAL FOR CONTAINMENT On land, sweep or shovel into suitable containers. Minimize generation of dust.



CLEANUP PROCEDURE

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Shut off all sources of ignition. Evacuate the area. If necessary, employ water fog to disperse the vapors. Absorb the matter with compatible vermiculite or other absorbing material. Place in a suitable container and retain for disposal. Ventilate and clean the affected area. Do not flush into sewerage system or to drains.

REFERENCE TO OTHER SECTIONS

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	Do not inhale. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Wash thoroughly after handling. Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.
CONDITIONS FOR SAFE STORAGE	Store away from incompatible materials, in a well-ventilated area. Eliminate all sources of ignition. Store in accordance with local regulations. Do not store in unlabeled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Use appropriate containment to avoid environmental contamination.
STORAGE CONDITIONS	Store in original container, tightly sealed, protected from direct sunlight and moisture.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

IDLH Limit value-8 hours Limit value-Short Term REL Advisory Notes Country mg/m³ ppm ppm mg/m³ OSHA USA N/L N/L N/L N/L N/L N/L N/A N/A N/L N/L ACGIH USA N/L N/L N/L N/L N/A N/A USA N/L N/L N/L N/L NIOSH N/I N/I N/A N/A WEEL USA N/L N/L N/L N/L N/L N/L N/A N/A HSIS N/L Australia N/L N/L N/L N/L N/L N/A N/A HSE UK N/L N/L N/L N/L N/L N/A N/L N/A GESTIS Add Country N/L N/L N/L N/L N/L N/L N/A N/A

Chemical Name: CALCIUM HYDROXYAPATITE CAS #: 1306-06-5

N/L = Not listed ; N/A = Not Available

PELs are 8-hour TWAs = Limit value - Eight hours

Ceiling or Short-Term TWA = STEL = Limit value - Short term

EXPOSURE GUIDELINES	Consult local authorities for provincial or state exposure limits. Particulates not otherwise regulated, respirable fraction: 5 mg/m ³
PERSONAL PROTECTIVE EQUIPMENT	Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by WHMIS or OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166. Skin: Wear appropriate gloves to prevent skin exposure. Clothing: Wear appropriate protective clothing to minimize contact with skin. Respirators: Follow WHMIS or OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced. Thermal Hazards: For products representing a thermal hazard, appropriate Personal Protective Equipment should be used.
SPECIFIC ENGINEERING CONTROLS	Adequate mechanical ventilation. Fumehood, eye wash station, and safety shower.



BIOLOGICAL MONITORING CONTROL BANDING Not available

Not available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE	Solid							
DESCRIPTION	White to off-white powder.							
SOLUBILITY	Solut	ble in acidic solutions	s. Insoluble in oraganic solvents an	d in buffer solution wi	th pH 5 to 10. Insoluble in water.			
ODOR	Not a	vailable.						
FLAMMABILITY	May	be combustible at hig	gh temperature					
AUTO-IGNITION TEMPERATURE		Not available	BOILING POINT	Not available	DECOMPOSITION TEMPERATURE	1100°C, 2012°F		
EVAPORATION RATE	I	Not available	EXPLOSIVE LIMIT	Not available	FLASH POINT	Not available		
log P (OCTANOL-WATER)		Not available	LOWER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available	MELTING/FREEZING POINT	Not available		
PARTICLE CHARACTERISTICS		Not available	OXIDIZING PROPERTY	Not available	рН	Not available		
RELATIVE DENSITY (WATER = 1)		Not available	SPECIFIC GRAVITY	Not available	UPPER FLAMMABLE/ EXPLOSIVE LIMIT(S)	Not available		
VAPOR DENSITY (AIR = 1)		Not available	VAPOR PRESSURE	Not available	VISCOSITY	Not available		

The physical data presented above are typical values and should not be construed as a specification.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY	Not established
CHEMICAL STABILITY	Stable under recommended storage conditions
INCOMPATIBLE MATERIALS	Strong oxidants. Strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS	Toxic fumes of carbon monoxide, carbon dioxide, nitrogen oxides and other gases may occur
HAZARDOUS POLYMERIZATION	Will not occur
POSSIBLITY OF HAZARDOUS REACTION	Not established
CONDITIONS TO AVOID	Moisture, sunlight and extreme temperatures

SECTION 11: TOXICOLOGICAL INFORMATION



ACUTE TOXICITY	Oral: Rat: LD50: (mg/kg): > 25350 Dermal: Rabbit LD50: (mg/kg): Not available Inhalation: Rat: LC50: (mg/L/4hr): Not available			
SKIN CORROSION/IRRITATION	Due to lack of da	Due to lack of data the classification is not possible.		
SERIOUS EYE DAMAGE/EYE IRRITATION	Due to lack of da	ata the classification is not possible.		
RESPIRATORY SENSITIZATION	Due to lack of data the classification is not possible.			
SKIN SENSITIZATION	Due to lack of da	ta the classification is not possible.		
GERM CELL MUTAGENICITY	Due to lack of da	ata the classification is not possible.		
CARCINOGENICITY	OSHA	CALCIUM HYDROXYAPATITE is not listed.		
	NTP	CALCIUM HYDROXYAPATITE is not listed.		
	IARC	CALCIUM HYDROXYAPATITE is not evaluated.		
	California Proposition 65	This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.		
ADDITIONAL CARCINOGENICITY INFORMATION	Due to lack of data the classification is not possible.			
REPRODUCTIVE TOXICITY	Due to lack of data the classification is not possible.			
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE	Due to lack of data the classification is not possible.			
SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE	Based on available data, the classification criteria are not met.			
ASPIRATION HAZARDS	Based on available data, the classification criteria are not met.			
SIGNS AND SYMPTOMS OF EXPOSURE	ROUTES OF EXPOSURE: Oral, Dermal, Inhalation EARLY ONSET SYMPTOMS RELATED TO EXPOSURE: Not available DELAYED HEALTH EFFECT FROM EXPOSURE: Not available			
	Not expected to	present a significant hazard under anticipated conditions of normal use.		
POTENTIAL HEALTH EFFECTS	Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.		
	Ingestion	May be harmful if swallowed.		
	Skin	May be harmful if absorbed through skin. May cause skin irritation		
	Eyes	May cause eye irritation.		

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY	EC50: 48 Hr: Crustacea: (mg/L): Not available LC50: 96 Hr: Fish: (mg/L): Not available EC50: 72 or 96 Hr: Algae (or other aqua plants): (mg/L): Not available
PERSISTENCE AND DEGRADABILITY	Not available
BIOACCUMULATIVE POTENTIAL	Not available
MOBILITY IN SOIL	Insoluble in water.
OTHER ADVERSE EFFECTS	Not available

This product is not intended to be released into the environment



SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of in accordance with federal / local laws and regulations. Avoid release into the environment.

SECTION 14: TRANSPORT INFORMATION

UN PROPER SHIPPING NAME	Not dangerous good
UN NUMBER	Not applicable
CLASS	Not applicable
PACKING GROUP	Not applicable
AUSTRALIA	
HAZCHEM	Not applicable
EU TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE	Not Listed
ENVIRONMENTAL HAZARDS	Not available
SPECIAL SHIPPING INFORMATION	Not applicable

SECTION 15: REGULATORY INFORMATION

UNITED STATES REGULATIONS

Chemical Name & CAS	CERCLA 40 CFR Part 302.4	SARA (Title III) 40 CFR Part 372.65	EPA 40 CF Appendix A	R Part 355 Appendix B	Pennsylvania	Right-to-know New Jersey		California Prop 65
CALCIUM HYDROXYAPATITE 1306-06-5	N/L	N/L	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed; X = Listed

AUSTRALIAN REGULATIONS

Chemical Name & CAS	Poisons and Therapeutic Goods	Therapeutic Goods Act	Code of Practices - Illicit Drug Precursors	Poisons Standard	Work Health and Safety Regulations	Inventory of Industrial Chemcials
CALCIUM HYDROXYAPATITE 1306-06-5	N/L	N/L	N/L	N/L	N/L	N/L

N/L = Not Listed

EU REGULATIONS



& CAS	REACH ANNEX XVII	REACH ANNEX XIV	EC 1005/2009	EC 850/2004	EC 1107/2009	PIC - Prior Informed Consent Regulation	EC 2012/18
CALCIUM HYDROXYAPATITE 1306-06-5	N/L	N/L	N/L	N/L	N/L	N/L	N/L
J/L = Not Listed; X = Listed							
Any EU regulation not listed abov	e is not applicable	e to this product.					
SUBJECT TO INTERNATIONAL AGREEMENT	N	lot applicable					
	;	SECTION 1	6: OTHER I	NFORMAT	ION		
REFERENCES	A	vailable upon requ	est				
	ir C 5 M S IF L C	dustrial chemical S comprehensive Env 0%; EPA – Enviror laterials Informatio ystem; IARC – Inte RFMN – Ready Bic D50 – Lethal Dose occupational Safety	Substances Accorc vironmental Respon- mental Protection n System; HSE – H ernational Agency f degradability Mode , 50%; MSHA - Mir	ing to Regulations nse, Compensatio Agency; GHS – Gi lealth and Safety I or Research on Ca el; ISS – Instituto S ne Safety and Hea	;; CAS – Chemical n, and Liability Act lobal Harmonized Executive; HSIS – ancer; IDLH - Imm superiore Sanità; L Ith Administration;	Computer Assisted B Abstract Service; CE (EC50 – Effective Co System; HMIS – Haza Hazardous Substance ediately Dangerous to (C50 – Lethal Concen NIOSH – National In: (A PEL – Occupational	RCLA – oncentration, ardous ces Informatio o Life or Hea tration, 50%;
	R	ecommended Exp	osure Limit; SARA / – Threshold Limit	osure Limits; QSA – Superfund Ame	ndments and Rea	tructure-activity relati uthorization Act; STE l age; WHMIS – Workpl	onship; REL L – Short Ter
AST REVISION	R E M	ecommended Exp	osure Limit; SARA / – Threshold Limit	osure Limits; QSA – Superfund Ame	ndments and Rea	uthorization Act; STE	onship; REL L – Short Ter
LAST REVISION SUPERSEDES	R E M 0 0 F	tecommended Exp xposure Limit; TL laterials Informatio 1/2023 7/2021	osure Limit; SARA / – Threshold Limit n System	osure Limits; QSA – Superfund Ame Value; TWA – Tirr	ndments and Rea ne Weighted Avera	uthorization Act; STE	onship; REL L – Short Ter
	R E M 0 0 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	tecommended Exp xposure Limit; TLV laterials Informatio 1/2023 7/2021 or a list of changes ww.medisca.com This document was nformation is believ The information in to product with regard the product. MEDIS	osure Limit; SARA - Threshold Limit n System to the SDS since created in accorda ved to be correct bi his document is ba to appropriate safa CA® shall not be l	osure Limits; QSA – Superfund Ame Value; TWA – Tim the last version, pl ance with OSHA, S ut does not purpor sed on the presen ety precautions. It held liable for any o	ndments and Rea be Weighted Avera lease communicat Safe Work Australi t to be all inclusive it state of our know does not represen damage resulting f	uthorization Act; STEI age; WHMIS – Workpl	onship; REL L – Short Ter lace Hazardo lace Hazardo ble to the e properties contact with