

MATERIAL SAFETY DATA SHEET

PROCLINIC
C/ Botánica N° 137
08908 L' Hospitalet de Llobregat
Barcelona, Spain



HAZARD RATINGS

HEALTH	0	MINIMAL
FLAMMABILITY	1	SLIGHT
REACTIVITY	2	MODERATE
SPECIAL NOTICE	3	SERIOUS
	4	EXTREME

SECTION I – IDENTIFICATION OF SUBSTANCE

PRODUCT NAME: ZINC PHOSPHATE CEMENT (LIQUID)

DESCRIPTION OF PRODUCT: ZINC PHOSPHATE CEMENT , FOR DENTAL PROFESSIONALS ONLY

SECTION II – COMPOSITION /DATA ON COMPONENTS

INGREDIENTS	%	CAS.NO.
ORTOPHOSPHORIC	60-70	7664-38-2
ALUMINIUM HYDROXIDE	1-10	21645-51-2
ZINC OXIDE	1-10	1314-13-2
BIDESTILATE WATER	10-20	---

(NO DANGEROUS COMPONENTS)

SECTION III – HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: MATERIAL MAY BE IRRITATING TO EYES AND SKIN. NO SIGNIFICANT HAZARDS FOR EMERGENCY RESPONSES ARE KNOWN.

HAZARD DESCRIPTION	IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN. LIQUID AND UNCURED MATERIAL MAY CAUSE SLIGHT, REVERSIBLE IRRITATION. MAY CAUSE SENSITIZATION BY SKIN CONTACT.
--------------------	--

SECTION IV – FIRST AID MEASURES

SKIN CONTACT	WASH THOROUGHLY WITH WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.
EYE CONTACT	FLUSH EYES WITH PLENTY OF WATER (10-15MIN.). IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION.
INHALATION	ALLOW THE VICTIM TO REST IN A WELL VENTILATED AREA. IF IRRITATION PERSISTS , SEEK MEDICAL ATTENTION
INGESTION	GIVE LARGE AMOUNTS OF WATER. IF YOU FEEL UNWELL, SEEK MEDICAL ATTENTION.

SECTION V – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	WATER FOG, CARBON DIOXIDE, FOAM, DRY CHEMICALS.
EXTINGUISHING MEDIA TO AVOID:	NONE KNOWN
FLASPOINT METHOD:	NOT APPLICABLE
PROTECTION AND PROCEDURES FOR FIREFIGHTERS:	FIREFIGHTERS SHOULD WEAR SELF-CONTAINED RESPIRATORY PROTECTIVE DEVICES.

SECTION VI – ACCIDENTAL RELEASE MEASURES

SPILLS/LEAKS	CLEAN UP MECHANICALLY. WASH THE AREA WITH SOAP AND WATER. DISPOSE OF ACCORDING TO LOCAL AND NATIONAL REGULATIONS.
--------------	---

SECTION VII – HANDLING AND STORAGE

HANDLING PRACTICES AND WARNINGS:	PRODUCT IS INTENDED FOR DENTAL USE ONLY. HANDLING OF THIS PRODUCT SHOULD BE BY TRAINED DENTAL HEALTHCARE PROFESSIONALS ONLY.
STORAGE PRACTICES AND WARNINGS:	STORE ONLY IN THE ORIGINAL PACKAGE. KEEP PACKAGE TIGHTLY SEALED. STORE IN A DRY AREA. STORE A WAY FROM FOOD AND BEVERAGES. PROTECT FROM EXCESSIVE HEAT AND COLD.

SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE /FACE	SAFETY GLASSES (PATIENT).
SKIN	GLOVES.
INHALATION	NOT REQUIRED.
BODY PROTECTION	PROTECTIVE WORK CLOTHING.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	LIQUID	ODOR:	PRACTICALLY ODOURLESS
COLOR:	COLORLESS OR PALE YELLOW	SPECIFIC GRAVITY:	1.5956 – 1.698 g/cm ³
MELTING POINT:	42°C	VAPOR PRESSURE (Pa):	TO 20°C: 4
pH:	N/A	SOLUBILITY IN WATER:	MISCIBLE

SECTION X– STABILITY AND REACTIVITY

STABILITY:	THE PRODUCT IS STABLE
INCOMPATIBILITY (MATERIALS TO AVOID):	THE SUBSTANCE POLYMERIZES VIOLENTLY UNDER THE INFLUENCE AZO COMPOUNDS, EPOXIDES AND OTHER COMPOUNDS POLYMERIZABLE. ON COMBUSTION, FUMING TOXIC (PHOSPHORUS OXIDES). THE SUBSTANCE DECOMPOSES ON CONTACT WITH ALCOHOLS, ALDEHYDES, CYANIDES, KETONES, PHENOLS, ESTERS, SULFIDES, HALOGENATED ORGANICS, PRODUCING TOXIC FUMES. THE SUBSTANCE IS A WEAK ACID. ATTACKS METALS FORMING FLAMMABLE HYDROGEN GAS. TALK VIOLENTLY WITH BASES.
HAZARDOUS PRODUCTS PRODUCED DURING DECOMPOSITION:	NONE UNDER NORMAL CONDITIONS OF STORAGE AND USE.
CONDITIONS TO AVOID	NONE KNOWN

SECTION XI – TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	ORAL LD ₅₀ FOR RATS = 1530 mg/kg PHOSPHORIC ACID (85%) DIRECT CONTACT MAY CAUSE EYE IRRITATION. SKIN: REPEATED OR PROLONGED EXPOSURE MAY CAUSE SLIGHT IRRITATIONS. MAY CAUSE SENSITIZATION BY SKIN CONTACT. ASSESSMENT BASED ON ACTUAL TESTING OR ON DATA FOR SIMILAR MATERIALS
SUBACUTE / CHRONIC TOXICITY	UNCURED MATERIAL: PROLONGED OR FREQUENTLY REPEATED SKIN CONTACT MAY CAUSE ALLERGIC SKIN REACTIONS IN SOME INDIVIDUALS.
FURTHER INFORMATION	NO HAZARD ANTICIPATED FROM SWALLOWING SMALL AMOUNTS INCIDENTALLY TO NORMAL HANDLING.

SECTION XII – ECOLOGICAL INFORMATION

NO ECOLOGICAL PROBLEMS TO BE ANTICIPATED IF PROPERLY HANDLED AND USED.

SECTION XIII – DISPOSAL CONSIDERATION

REGULATIONS: MUST NOT BE DISPOSED OF TOGETHER WITH HOUSEHOLD GARBAGE. DISPOSE OF MATERIAL AS LIQUID WASTE IN A CLOSED CONTAINER.
DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION XIV – TRANSPORT INFORMATION

NOT REQUIRED.

SECTION XV – REGULATORY INFORMATION

THIS PRODUCT IS A MEDICAL DEVICE AND NOT SUBJECT TO CHEMICAL NOTIFICATION REQUIREMENTS.

REGULATED FOR SHIPPING: NOT REGULATED

SYMBOL: N/A

CATEGORIES OF DANGER: N/A

SECTION XVI – OTHER INFORMATION

THE ABOVE MENTIONED DATA CORRESPOND TO OUR PRESENT STATE OF KNOWLEDGE AND EXPERIENCE. THE SAFETY DATA SHEET SERVES AS DESCRIPTION OF THE PRODUCTS IN REGARD TO NECESSARY SAFETY MEASURES. THE INDICATIONS DO NOT HAVE THE MEANING OF GUARANTEES ON PROPERTIES.

* N/E: NOT ESTABLISHED, N/A: NOT AVAILABLE, N/R: NOT REGULATED BY IARC

MATERIAL
SAFETY
DATA
SHEET

PROCLINIC
C/ Botánica N° 137
08908 L' Hospitalet de Llobregat
Barcelona, Spain


HAZARD RATINGS

HEALTH	0	MINIMAL
FLAMMABILITY	1	SLIGHT
REACTIVITY	2	MODERATE
SPECIAL NOTICE	3	SERIOUS
	4	EXTREME

SECTION I – IDENTIFICATION OF SUBSTANCE

PRODUCT NAME: ZINC PHOSPHATE CEMENT (POWDER)

DESCRIPTION OF PRODUCT: ZINC PHOSPHATE CEMENT , FOR DENTAL PROFESSIONALS ONLY

SECTION II – COMPOSITION /DATA ON COMPONENTS

INGREDIENTS	%	CAS.NO.
ZINC OXIDE	80-90	1314-13-2
BISMUTH SUBNITRATE	1-5	1304-85-4
MAGNESIUM OXIDE	1-10	1309-48-4

(NO DANGEROUS COMPONENTS)

SECTION III – HAZARD IDENTIFICATION

HAZARD DESCRIPTION	IRRITATING TO EYES AND SKIN.
--------------------	------------------------------

SECTION IV – FIRST AID MEASURES

SKIN	IMMEDIATELY WASH WITH SOAP AND WATER AND RINSE THOROUGHLY.
EYE	RINSE OPENED EYE FOR SEVERAL MINUTES UNDER RUNNING WATER. IF SYMPTOMS PERSIST,SEEK MEDICAL ATTENTION.
INHALATION	SUPPLY FRESH AIR, IF SYMPTOMS PERSIST SEEK MEDICAL ATTENTION
INGESTION	RINSE MOUTH OUT AND THEN DRINK PLENTY OF WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION.

SECTION V – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE.
EXTINGUISHING MEDIA TO AVOID:	WATER WITH FULL JET.

FLASPOINT METHOD:	NOT APPLICABLE
PROTECTION AND PROCEDURES FOR FIREFIGHTERS:	FIREFIGHTERS SHOULD WEAR SELF-CONTAINED RESPIRATORY PROTECTIVE DEVICES.
UNUSUAL FIRE AND EXPLOSION HAZARDS:	DURING A FIRE, FORMATION OF TOXIC AND/OR IRRITATING COMPOUNDS MAY BE PRESENT.

SECTION VI – ACCIDENTAL RELEASE MEASURES

SPIILLS/LEAKS	MECHANICALLY CLEAN. PLACE IN AN APPROPRIATE WASTE DISPOSAL. FINISH CLEANING BY SPREADING WATER ON THE CONTAMINATED SURFACE AND DISPOSE OF ACCORDING TO LOCAL AND REGIONAL AUTHORITY REQUIREMENTS.
---------------	---

SECTION VII – HANDLING AND STORAGE

HANDLING PRACTICES AND WARNINGS:	PRODUCT IS INTENDED FOR DENTAL USE ONLY. HANDLING OF THIS PRODUCT SHOULD BE BY TRAINED DENTAL HEALTHCARE PROFESSIONALS ONLY.
STORAGE PRACTICES AND WARNINGS:	STORE ONLY IN THE ORIGINAL PACKAGE. KEEP PACKAGE TIGHTLY SEALED. STORE IN A DRY AREA. STORE A WAY FROM FOOD AND BEVERAGES.

SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE /FACE	SAFETY GLASSES (PATIENT)
SKIN	PROTECTIVE GLOVES
INHALATION	NOT REQUIRED.
BODY PROTECTION	PROTECTIVE WORK CLOTHING.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	FINE POWDER	ODOR:	ODORLESS
COLOR:	PALID YELLOW	SPECIFIC GRAVITY:	NOT APPLICABLE
MELTING POINT:	NOT APPLICABLE	VAPOR PRESSURE (mm Hg):	NOT APPLICABLE
pH:	NOT APPLICABLE	SOLUBILITY IN WATER:	PARTIALLY SOLUBLE

SECTION X– STABILITY AND REACTIVITY

STABILITY:	THE PRODUCT IS STABLE
------------	-----------------------

INCOMPATIBILITY (MATERIALS TO AVOID):	STRONG ACIDS, STRONG OXIDIZING AGENTS.
HAZARDOUS PRODUCTS PRODUCED DURING DECOMPOSITION:	OXIDES OF ZINC
CONDITIONS TO AVOID	NONE KNOWN

SECTION XI – TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	LD ₅₀ (RATS) ZINC OXIDE, (ORAL) > 630 mg/Kg, (INHALED) 15000 mg/kg. DIRECT CONTACT MAY CAUSE EYE IRRITATION. SKIN: REPEATED OR PROLONGED EXPOSURE MAY CAUSE SLIGHT IRRITATIONS. ASSESSMENT BASED ON ACTUAL TESTING OR ON DATA FOR SIMILAR MATERIALS
SUBACUTE / CHRONIC TOXICITY	UNCURED MATERIAL: PROLONGED OR FREQUENTLY REPEATED SKIN CONTACT MAY CAUSE ALLERGIC SKIN REACTIONS IN SOME INDIVIDUALS.
FURTHER INFORMATION	NO HAZARD ANTICIPATED FROM SWALLOWING SMALL AMOUNTS INCIDENTALLY TO NORMAL HANDLING.

SECTION XII – ECOLOGICAL INFORMATION

WITHOUT ECOLOGICAL PROBLEMS WAITING, IF HANDLED AND USED AS INDICATED

SECTION XIII – DISPOSAL CONSIDERATION

REGULATIONS: MUST NOT BE DISPOSED OF TOGETHER WITH HOUSEHOLD GARBAGE. DISPOSE OF MATERIAL AS SOLID WASTE IN A CLOSED CONTAINER.
DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.
PROPERTIES (PHYSICAL/CHEMICAL) AFFECTING DISPOSAL: DISPOSE OF MATERIAL AS SOLID WASTE IN A CLOSED CONTAINER

SECTION XIV – TRANSPORT INFORMATION

NOT REQUIRED.

SECTION XV – REGULATORY INFORMATION

THIS PRODUCT IS A MEDICAL DEVICE AND NOT SUBJECT TO CHEMICAL NOTIFICATION REQUIREMENTS.
REGULATED FOR SHIPPING: NOT REGULATED
SYMBOL: N/A
CATEGORIES OF DANGER: N/A

SECTION XVI – OTHER INFORMATION

THE ABOVE MENTIONED DATA CORRESPOND TO OUR PRESENT STATE OF KNOWLEDGE AND EXPERIENCE. THE SAFETY DATA SHEET SERVES AS DESCRIPTION OF THE PRODUCTS IN REGARD TO NECESSARY SAFETY MEASURES. THE INDICATIONS DO NOT HAVE THE MEANING OF GUARANTEES ON PROPERTIES

* N/E: NOT ESTABLISHED, N/A: NOT AVAILABLE, N/R: NOT REGULATED BY IARC