

CALCIUM HYDROXIDE

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT

Name Calcium Hydroxide.

Other means of identificaction Hydrated Lime, High Calcium, food grade lime.

NIXTACAL PLUS

Brand Nixtacal Plus

Formula Ca(OH)₂

Uses of product NIXTACAL PLUS is a product used as an additive in foods that

are highly specialized that require high purity and low impurities, is used for making tortillas or flour, it helps regulate pH, inhibition of fungus, moho or yeast in addition to providing better quality final product color. This product is primarily a source of calcium. Meets the specifications of Food Chemical Codex. It is used in the process of tanning fine skins for the

manufacture of clothes and handbags.

MANUFACTURER

General Offices

Servicios Administrativos Calidra, S.A. de C.V.

Av. Vasco de Quiroga # 1800 PH-A Col. Santa Fe Delegación Álvaro Obregón. Ciudad de México. C.P. 01210 Tel 01 (800) 021 9711 www.calidra.com

NORTH REGION

OFICINAS NORTE

Av. San Jeronimo #310 Piso 6 Despacho 601 Edificio Altreca, San Jeronimo, Monterrey, Nuevo Léon C.P. 64640 Tel: 01 (811) 734 1520

PLANTA MONTERREY

Carretera a Villa de García Km. 8.5 García Nuevo León. C.P. 66000. Tel: 01 (818) 150 6620.

Carretera Grutas de García S/N Col. García Municipio de García Nuevo León. C.P. 66000 Tel: 01 (811) 734 1520

PLANTA TORREON

Av. 4ta. y Calle 16 Colonia Vicente Guerrero, Torreón Coahuila C.P. 27380 Tel: 01 (871)722 1322 / 01 (800) 536 7323.

PLANTA SONORA

Carretera a Sahuaripa Km. 5.5, Parque Industrial Hermosillo Sonora C.P. 83299 Tel: 01 (662) 208 0506 al 0511

ORIENTE REGION

OFICINAS ORIENTE

Calle Opera #2 Lomas de Angelópolis Edificio LED GNP San Andrés Cholula, Puebla, Pue. C.P.72830 Tel: 01 (222) 309 1400

PLANTA ACAJETE

Ex-hacienda de San Martín La Joya s/n Acajete, Puebla C.P. 75111 Tels.: 01 (223) 275 3600

PLANTA MORELOS

Cerro Tenayo El Chico s/n Buenavista Yautepec Centro, Morelos C.P.62730 Tel: 01 (735)394 1775

CENTER REGION OFICINAS CENTRO

Av. Paseo Miranda #17, Monte Miranda, El Marques, Santiago de Queretaro, Qro. C.P. 76240 Tel: 01 (442) 229 0435

PLANTA APAXCO

Av. Industrial s/n, Colonia Centro, Apaxco de Ocampo, Estado de México C.P. 55660

Tel: 01 (599) 998 2750 / 01 (800) 536 3340

PLANTA PROGRESO

Carretera Progreso-Ixmiquilpan, s/n Km. 7.3 Poblado de Xochitlán Progreso de Obregón Hidalgo C.P. 42730 Tel: 01 (738) 725 0516

PLANTA VIZARRON

Carretera San Juan del Río-Xilitla, Ramal San Joaquín KM. 5, Vizarrón, Cadereyta, de Montes, Querétaro, Querétaro. C.P. 76509 Tel: 0 | (441) 296 4104

PLANTA BERNAL

Carretera Bernal-Tolimán km. 1 Villa Bernal Ezequiel Montes, Querétaro C.P. 76680 Tel: 01 (441) 296 4104

PLANTA IRAPUATO

Camino existente a Valencianita s/n, Colonia Ex Hacienda del Marqués, Irapuato, Guanajuato. C.P. 36821 Tel: 01 (462) 633 2050

PLANTA MICHIUCA

Carretera Michiuca-Naupan Km. 2, Minchiuca, Huauchinango, Puebla. C.P. 77165

OCCIDENTE-BAJIO REGION OFICINAS OCCIDENTE

Av. Lopez Mateos Sur #1450 Piso 3A Col. Las Villas Tlajomulco de Zúñiga, Jalisco. C.P. 45643 Tels.: 01 (333) 134 51 00 al 08

PLANTA TECOLOTLAN

Extramuros ·#2 Domicilio Conocido Rancho Tenextitlan, Tecolotlan Jalisco C.P.48540 Tel: 01 (385) 776 4154

PLANTA ZAPOTILTIC

Av. J. Miguel Fernandez #1 Colonia Huescalapa, Zapotiltic Jalisco C.P.49630 Tel: 01 (341)414 2184

PLANTA SANTA CRUZ

Vicente Trigo Oriente #100 Col. Santa Cruz de las Flores, Tlajomulco de Zuñiga Jalisco C.P. 45640 Tel: 01 (333) 796 0769

PLANTA MICHOACAN

De La Galera Hacia Abajo, Jungapeo, Michoacán C.P. 61470 Tel: 01 (715) 163 9923

PLANTA AGUASCALIENTES

Av. Héroe de Nacozari Norte #3007 Fracc. Las Hadas. Aguascalientes, Aguascalientes. C.P. 20140. Tel: 01 (449) 914 2206

PLANTA SAN LUIS POTOSI

Carretera Central Km 1.5 Tramo SLP-Huizache, San Francisco Soledad De Graciano Sánchez, San Luis Potosí. C.P 78435

Tel: 01 (444)818 1516 / 01 (800) 480 3700

Carretera San Luis Potosí-Rio Verde Km. 32, Poblado Los Matías, Zaragoza, San Luis Potosí C.P. 79540 Tel: (444) 818 1516

Acceso Norte #110 Col. Industrial Mexicana San Luis Potosí, S.L.P C.P. 78435 Tel: 01 (444) 812 3119

PLANTA ZACATECAS

Carretera Zacatecas-Saltillo Km 24.1 Laguna Seca Panuco, Zacatecas. C.P. 98548 Tel: 01 (492) 949 0214



SECTION 2. HAZAR	D(S) IDENTIFICATION
Signal Word	Warning
Hazard Symbols	
Hazard	H 315: Causes skin irritation 2. H 318: Causes serious eye damage 1. H 334: May cause allergy or asthma symptoms or breathing difficulties if inhaled 1B.
Caution tips	CAUTION P102: Keep out of the reach of children. P103: Read the label before use. P201: Obtain special instructions before use. P202: Do not tamper until you have read and understood the safety precautions. P280: Wear protective gloves / protective clothing / eye protection / face protection. P260: Do not breathe dust. P264: Wash your hands thoroughly after handling. RESPONSE TO EMERGENCIES P314: Get medical attention if you do not feel well. P304 + P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P302 + P352: IF ON SKIN: Wash with plenty of water and soap. P332 + P313: In case of skin irritation: consult a doctor. P305 + P351: IF IN EYES: Rinse cautiously with water for several minutes. P301 + P330 + P331: IN CASE OF INGESTION: Rinse mouth. Do not induce vomiting.
	STORAGE: P402: Store (dry product) in dry place DISPOSAL: P501: Dispose of contents and container in accordance with local,
	regional, national and international regulations.
WHMIS/ GHS/ NOM 018 STPS	Eye damage / Eye irritation - Category 2B Mild Cutaneous Irritation - Category 3 Respiratory sensitization -Category 1A and 2B
Others hazards	No



SECTION 3: COMPO	SITION / INFORMATION ON INGREDIENTS	
Ingredient name Calcium Hydroxide Ca(OH) ₂	Concentration % 95-98.5%	CAS number 01305-62-0
Crystalline Silica SiO2	0.10-0.5%	14808-60-7
SECTION 4: FIRST AID) MEASURES	
Inhalation	Remove from the source of dust or to medical attention immediately, if the artificial respiration.	
Ingestion	Do not induce vomiting. Contact a do	octor immediately.
Skin Contact	Wash gently and carefully with wate exposed area is large or if irritation per	
Eye Contact	Do not rub your eyes. Contact with dust can cause irritation by rubbing. Wash eyes immediately with water. Consult your doctor if necessary.	
SECTION 5: FIRE-FIG	HTING MEASURES	
Fire	Not considered to be a fire hazard	
Explosion	Not considered to be an Explosion Hazard	
Fire Extinguishing Media	Appropriate extinction measures The product is not combustible. Use exappropriate to local circumstances are environment.	
Special Information	Recommendations for firefighting personnel Avoid the generation of dust. Use respirators	
SECTION 6: ACCIDE	NTAL RELEASE	
Steps to be taken in case material is spilled	 Ventilate the area of the leak of	rected people away from the sonal protective equipment sufficient ventilation or use (see section 8). Witable container for recovery at does not generate dust. The sewer. With water, neutralized with varional or sulfuric. The residue on clay or other inertiable container for disposal in ate, federal, national and



SECTION 7: HANDLING	AND STORAGE
Precautions for safe handling	 Avoid contact with skin and eyes. Wear protective equipment (referred to in section 8 of this safety data sheet). Do not wear contact lenses when handling this product. Keep dust levels to a minimum. Minimize the generation of dust. Avoid dust using ventilation or adequate filters in the places where it is handled. Whenever possible, mechanical manipulation is better.
Recommendations for storage	 Store in a well-closed and identified container, stored in a cool, dry and ventilated area.
	 Protect against physical damage.
	• Isolate incompatible substances. Containers of this material can be dangerous when they are empty, since they retain product residues (dust, solids); Observe all warnings and precautions listed for the product. See section 10 of Incompatible Substances.
	 Keep the product away from sources of moisture, heat and ignition.
	 Store in the area corresponding to corrosives.
	Avoid bulk storage.

Ingredient name	Exposure limits
Calcium Hydroxide	OSHA PEL (United States, 2/2013). TWA: 5mg/m³ / 8h / Respirable fraction. TWA: 15mg/m³ / 8h/ Total Dust.
	ACGIHTLV (United States, 4/2014). TWA: 5mg/m³ / 8h
	NIOSH REL (United States, 10/2013). TWA: 5mg/m³ / 10h
	MSHA PEL / TWA: 8/40 HORAS: 5mg/m³.
	NOM-010-STPS-2014 / 5mg/m³ / 8h
Crystalline Silica	OSHA PEL Z3 (United States, 2/2013).
	TWA: 10mg/m³ / 8h / Respirable.
	TWA: 250 mppcf / 8h / Respirable.
	ACGIHTLV (United States, 4/2014).
	TWA: 0.025mg/m³ / 8h / Respirable fraction.
	NIOSH REL (United States, 10/2013). TWA: 0.05mg/m³ / 10h / Respirable Dust.
	MSHA PEL TWA: 8/40 HORAS: 30mg/m³ (%SiO ₂)+ 2mg/m³ / Total Dust 10mg/m³ (%SiO ₂) + 2mg/m³ / Respirable Dust



Personal Protective Equipment: • Eye protection: Use goggle or safety lens to protect against chemicals and / or full face shield where possible dust or splash solutions. Keep the eye wash fountain and quick drain facilities in the work area. • Hand protection: Wear dry protective gloves. Avoid gloves with open fabrics. • Skin protection: Wear suitable protective clothing to avoid contact with skin with long sleeves and not torn or broken. • Footwear: Wear closed footwear. • Respiratory protection: It is recommended to use a mask or respirator for powders with protection equal to or greater than N95. Hygiene Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using lavatory and the end of the working period. Wear clean, dry personal protective equipment. Environmental: Ventilation systems should be filtered before discharge to atmosphere
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CECTION A DIVISION AND CHEMION DECRETES
SECTION 9: PHYSICAL AND CHEMICAL PROPIETIES
Common Name Calcium Hydroxide, Hydrated Lime, Lime Off
Chemical Formula Ca(OH) ₂
Molecular Weight 74.10 g/M
State Physical Solid Powder
Color White
Odor Odorless
Odor Odorless Stability Reactive
Stability Reactive
Stability Reactive Flammability: Not-flammable
Stability Reactive Flammability: Not-flammable Explosivity: Not-flammable



Vapor Density:	Not applicable
Solubility in Water	1.650 g / I water at 20 ° C. 100% Solubility in Ammonium Tetrachloride NH2CI4.
рН	12.45 in a 1% solution in water at 25 ° C
% Volatile	0
Density	0.60-0.70 kg/l.
Vapor Press	Not applicable
Freezing Ponit	Not applicable
Self ingnition	Not applicable
Viscosidad	Not available
Partition Coefficient:	Not available
Evaporation	Not applicable
Decompotition temperature:	540°C (1004°F)
Additives:	Not applicable
SECTION 10: STABILIT	Y AND REACTIVITY
Reactivity	The material will not react in a dangerous manner. Calcium hydroxide absorbs carbon dioxide from the air, and forms calcium carbonate. Reacts slowly with water forming hydrated compounds, releasing heat and producing a strong alkaline solution. Reacts chemically with acids and other compounds and chemical elements to form calcium-based compounds. Explosive when mixed with organic Nitrogen compounds.
Chemical Stability	Under normal conditions of use and storage (dry conditions), Calcium Hydroxide is stable. Absorbs carbon dioxide from the air gradually forming calcium carbonate.
Possibility of Hazardous Reactions	The material does not develop dangerous polymerization. Calcium Hydroxide reacts exothermically with acids forming calcium salts.
Conditions to avoid	Humid environments.
Incompatible materials	Strong oxidizing agents The wet material is alkaline and reacts with acids, ammonium salts, aluminum and other reactive metals. For example: Tri-Boron Floride, Tri-Floride Chlorine, Ethanol, Fluorine, Hydrogen Fluoride, Phosphorus Pentoxide, Strong Acids.
Hazardous Decomposition Products	It undergoes thermal decomposition at 540 °C producing Calcium Oxide and water.



SECTION 11: TOXICO	
Routes of entry	By ingestion and inhalation, contact with skin, eyes, mucous membranes in general
Effects or prolonged exposure:	Skin: Irritating and dry skin, depending on exposure, humidity and contact duration.
	Eyes: Dangerous with eye contact. Possible injuries and blindness in left untreated for a prolonged period. (Rabbit 10mg / 24hr- severe damage).
	Inhalation: If inhaled in the form of dust generated irritation in the respiratory tract, coughing and sneezing.
	Ingestion: May cause gastrointestinal irritation and pain, vomiting diarrhea, drop in blood pressure, dizziness and headache. The magnitude of the damage depends on the amount ingested. (RatLD50: 7340 mg / kg).
Effects by Chronic Exposure	Dermatitis: Prolonged contact causes redness, peeling and cracking of the skin.
	Sensitization: No sensitizing effects known.
	Carcinogenicity: There are no carcinogenicity data available for this product. Calcium hydroxide is not listed as a carcinogen by ACGIH, MSHA, OSHA, NTP, DFG. RSST or IAARC.
SECTION 12: ECOLO	GICAL INFORMATION
Toxicity	Severe aquatic toxicity in high concentrations of high alkalinity (pt 12.454) in concentrations of 1g / l.
Persistence and degradability:	Not applicable
Bioaccumulative potential:	This material shows no effect of bioaccumulation and toxicity of the concentration of the food chain
Mobility in soil:	Low solubility and mobility in most soil conditions.
Other adverse effects:	No relevant information available
Additional information	Product usually not dangerous at low concentrations. Frequently used in the treatment of water and soil.
SECTION 13: DISPON	ISAL CONSIDERATIONS
them for oth accordance The processi characterist	n-contaminated products whenever possible and reuse or recycle her beneficial purposes. If you can not recover them, discard in with federal, state or local requirements. In ing, use or contamination of this product may change the lics of the waste profile and the waste management options.



SECTION 14: TRANSPORT / SHIPPING INFORMATION

- Calcium Hydroxide is not classified as dangerous for transportation.
- See the regulations for land transportation of hazardous materials and wastes.
- Transport in closed containers that are vertical and safe. Make sure that the people who transport the product know what to do in case of accident or spill.

SECTION 15: REGULA	TORY INFORMATION
SARA 302/304	Emergency planning and release notification: Not listed
SARA 311	Hazard categories (40 CFR 370) - regulated under OSHA: Acute and chronic.
SARA 312	Emergency planning and release notification: No
SARA 313	Inventory of release of toxic substances (TRI) List of chemical substances: Not listed
CERCLA	Calcium hydroxide is not in the list
TSCA 8(a) CDR Ex / P	Undetermined
RCRA	Calcium hydroxide is not listed or classified
CWA 311	Calcium hydroxide has been removed from the list of hazardous substances in the Clean Water Act (CWA) (11/13/79) (44FR65400).
FDA	Calcium hydroxide has been determined as generally safe (GRAS) by FDA 21CFR 184.1205
PROP 65	Subject to the 1986 warning and labeling requirements on the Safety of Drinking Water and the Toxic Application of California Law (preposition 65) based on the presence of traces of metals and silica (at or below detection levels) known by the state of California as causing cancer. "Non-detectable concentrations are reported at 1/2 of the detection level.
TSCA	Calcium Hydroxide is listed in the inventory of the TSA that promotes the EPA of the chemicals currently marketed, its registration is 1305-62-0 Active.
SECTION 16: OTHER I	NFORMATION
Hazardous	Health: 3
Material Information System (HMIS)	Flammability: 0
	Physical Risks: 1
	The HMIS classifications are based on a 0-4 scale, with 0 representing minimal risks or risks, and 4 representing significant risks or hazards.
CAS	1305-62-0
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Definitions WHMIS: Information System on Hazardous Materials Used at Work. GHS: Globally Harmonized System of Classification and Labelina of Chemical Products. ACGIH: Conference of the American Government NIOSH: National Institute for Occupational Health and Safety. MSHA: Mine, Safety and Health Administration. NTP: Technical Prevention Notes. DFG: German Foundation for Scientific Research. RSST: Internal Regulation of Safety and Health at Work. IARC: International Agency for Cancer Research. SARA: Document for the Planning of local and state emergencies around Hazardous Chemicals. CERCLA: Comprehensive Law on Response, Compensation and Environmental Responsibility. TSCA: Law of Control of Toxic Substances. RCRA: Law of Conservation and Recovery of Resources. TWA: Average Weighted in Time. PEL: Exposure limit Allowed. TLV: Threshold Limit Value. REL: Recommended exposure limit. PROP 65: Law of Safe Drinking Water and Law of Toxic Application. HMIS: Hazardous Materials Identification System. CAS: Abstract Chemicals Service (CAS Registration Number) CFR: Code of Federal Regulations. DEP: Department of Environmental Protection. DOT: Department of Transportation. FDA: Food and Drug Administration. NFPA: National Fire Protection Administration. OSHA: Occupational Health and Safety Administration. IATA: International Association of Air Transport. IBC: Intermediate bulk container. IMDG: International maritime goods. MARPOL: International Convention for the Prevention of Contamination of Ships. STPS: Secretary of Labor and Social Prevention. EPA: Environmental Protection Agency of the United States. Date of 27/03/2020 modification 5 Version bbarajas@calidra.com.mx; mbrito@calidra.com.mx Prepared by Notice for the Grupo Calidra and its subsidiaries provide the information contained in this document in good faith, but makes no representation as to its reader accuracy. This document is only intended to guide the appropriate preventive management of the material by a properly trained

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