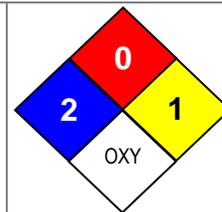




**Industrias AIEn
Research & Development
Material Safety Data Sheet**



SAP Code

MSDS FP-6050125

SECTION I – PRODUCT AND COMPANY INFORMATION

Manufacturer ALEN DEL NORTE S.A. DE C.V.	Mexico emergency telephone 01 800 834 33 00	Fax 01 812 211 96
Address Blvd. Díaz Ordaz No. 1000, Los Treviño, Santa Catarina, C.P. 66350, N.L. México	Information telephone (US) CHEMTRAC For domestic shipments 800 424 9300 For shipments outside US 703 527 3887	
Product Name CLORALEX BATHROOMS		
Chemical Name NA	CAS Number NA	
Synonyms/Trade Names NA		
Application Bathroom cleaner with bleach		

SECTION II – COMPOSITION AND INGREDIENTS INFORMATION

Hazardous Ingredients Chemical/Common Name	Composition Range	CAS Number	ACGHI	OSHA PEL / NIOSH REL
Hydrochlorous acid sodium salt / Sodium hypochlorite	2.0 – 4.0	7681-52-9	TLV: Not estab.	ND
Sodium hydroxide / Caustic soda	0.1 – 0.5	1310-73-2	TLV-ceiling: 2 mg/m ³	PEL-TWA: 2 mg/m ³ REL-ceiling: 2 mg/m ³

SECTION III – HAZARDS IDENTIFICATION

Emergency overview	There is not known adverse effect form chronic exposure to the recommended use of this product.
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SECTION IV – FIRST AID MEASURES

Ingestion	DO NOT INDUCE VOMITING. Drink large amounts of water. Do not give anything by mouth to a convulsing or unconscious person. See a doctor immediately.
Inhalation	Move to a fresh air and restore breathing, if required.
Skin	Wash with soap and water. Remove contaminated clothing.
Eyes	Flush eyes with cool running water holding eyelids apart to ensure thorough rinsing for 15 minutes. Remove contact lenses. See a doctor immediately.

SECTION V – FIRE AND EXPLOSION DATA

Flash Point (°C) NA	Test method Pensky-Martens Closed Cup Test.
Flammability NA	Explosive limits in air No explosion hazard.
Extinguishing media: Water spray <input checked="" type="checkbox"/> CO ₂ <input checked="" type="checkbox"/> Foam <input checked="" type="checkbox"/> Other <input type="checkbox"/>	
Unusual fire and explosion hazards Full breathing apparatus and firefighting equipment.	
Special fire fighting procedures NA	
Conditions to avoid NA	
Hazardous combustion products Carbon dioxide and carbon monoxide; chlorine gas may be released	

SECTION VI – SPILL AND DISPOSAL INFORMATION

Steps to be taken in case of spillage or release Large spills: wear protective equipment, remove sources of ignition, sweep up the material, use absorbent material like sand or saw dust, collect in closed containers, wash area with water because the surface may be slippery. Small spills: wash area with plenty of water and dispose the material to the industrial sewage.
Personal protection equipment Gloves <input checked="" type="checkbox"/> Latex Goggles <input checked="" type="checkbox"/> Boots <input checked="" type="checkbox"/> Coarse <input checked="" type="checkbox"/> Resistant Other <input type="checkbox"/>

SECTION VII – HANDLING AND STORAGE

Handling Use with adequate ventilation. Avoid contact with skin, eyes and clothing.
Storage Keep out of reach of children. Keep containers closed when not in use. Store in a well ventilated, cool, dry area. Do not store near heat, sparks or open flame. Keep from freezing.

SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation requirements General ventilation <input type="checkbox"/> Local ventilation <input checked="" type="checkbox"/> Unnecessary in normal cond. <input type="checkbox"/>
Personal protection equipment under normal use conditions Gloves <input checked="" type="checkbox"/> Neoprene Goggles <input checked="" type="checkbox"/> Boots <input checked="" type="checkbox"/> Coarse <input checked="" type="checkbox"/> Resistant Other <input type="checkbox"/>

Work/hygienic practices
None special requirements.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear liquid		
Color and odor:	Light yellow and characteristic chlorine-herbal odor		
Boiling point (°C):	NA	Melting or freezing point:	NA
Fire point (°C):	NA	Auto ignition temperature (°C):	NA
Density (g/ml):	1.030-1.050	Vapor density:	NA
Molecular weight:	NA	Volatility:	NA
Percent volatile 100°C :	93.0-93.8	Vapor pressure (mmHg @ 37.3°C):	NA
Lower explosion limit (%):	NA	Upper explosion limit (%):	NA
pH:	12.5-13.5	Viscosity (cPs):	NA
Solubility in water:	Complete	Solubility in others:	ND

SECTION X – REACTIVITY INFORMATION

Stability:
Stable Unstable

Incompatibility with various substances:
None Water Acids Alkalis Oxide Other
known
Fe, Cu, Ni, Bronze Metals, ammonia, urea

Hazardous polymerization:
Will not occur May occur

Conditions of instability:
Will not occur May occur
Contact with acidic products, ammonia or vinegar may release chlorine gas
It may become unstable at high temperatures (above 45°C).

Hazardous decomposition products:
It may generate chlorine gas.

SECTION XI – TOXICOLOGICAL INFORMATION

Health effects		
Contact via	Acute	Chronic
Ingestion	May cause irritation to intestinal mucous	NA
Inhalation	None under normal use conditions.	None under normal use conditions.
Skin	May cause irritation, dryness or wounds in sensitive skin.	May cause irritation.

Eyes	May cause a slightly irritation.	NA
Hazards Carcinogenic <input type="checkbox"/> Mutagenic <input type="checkbox"/> Theratogenic <input type="checkbox"/> Included in <input type="checkbox"/> NOM 010 STPS Included in <input type="checkbox"/> other references		
Complementary information		
Test	Results	Animal Species
ND	----	----

SECTION XII – ECOLOGICAL INFORMATION

Ecotoxicity NA

SECTION XIII – DISPOSAL CONSIDERATIONS

Waste disposal methods Dispose in accordance with all local, state and federal regulations.
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SECTION XIV – TRANSPORT INFORMATION

Regulation	Proper Shipping Name	Identification number UN/NA	Hazard Classification	Packing Group
Land Transportation DOT (USA)	Hypochlorite solutions	UN1791	8 (Corrosive substance)	III
Land Transportation TDG (Canada)	Hypochlorite solutions	UN1791	8 (Corrosive substance)	III
Land Transportation ADR (Europe)	Hypochlorite solutions	UN1791	8 (Corrosive substance)	III
Air Transportation IATA (International)	Hypochlorite solutions	UN1791	8 (Corrosive substance)	III
Water Transportation IMDG (International)	NA	NA	NA	NA

SECTION XV – REGULATORY INFORMATION

RCRA (40 CFR 261, Subpart D):	New Jersey Right to Know Hazardous Substance List:
Not applicable.	This product contains the following components subject to reporting requirements: sodium hypochlorite and sodium hydroxide.
Clean Water Act:	Pennsylvania Hazardous Substance List:
Contains sodium hypochlorite (RQ = 100 lb/45.4 kg) and sodium hydroxide (RQ = 1000 lb/454 kg) which are regulated under Sections 301, 307 and 311.	This product contains the following components subject to reporting requirements: sodium hypochlorite and sodium hydroxide.
Clean Air Act:	Massachusetts Substance List:
Not applicable.	This product contains the following components subject to reporting requirements: sodium hypochlorite and sodium hydroxide.

SARA Sections 301-304 (Threshold Planning Quantity - TPQ) 40 CFR 355:	State Of Illinois Substance List:
Not applicable.	This product contains the following components subject to reporting requirements: sodium hypochlorite and sodium hydroxide.
Section 313 (Toxic Chemical Release Reporting) 40 CFR 372:	Michigan Critical Materials Register:
The following chemicals must be reported under SARA 313: Sodium hypochlorite.	Not applicable.
CERCLA Section 102 (Reportable Quantity - RQ):	Canada (WHMIS) - listed material:
Not applicable.	This product contains the following components subject to reporting requirements: sodium hypochlorite and sodium hydroxide.
California Proposition 65 Carcinogens and reproductive toxins:	TSCA Section 8(b) Inventory Status:
Not applicable.	All ingredients listed in this product are listed in the TSCA Inventory or are not required to be listed in the TSCA Inventory.

SECTION XVI – OTHER INFORMATION

HMIS Classification (USA)	HMIS Letter	Required Equipment
Health 2	A	Safety glasses.
Flammability 0	B	Safety glasses, gloves.
Physical Hazard 1	C	Safety glasses, gloves, protective apron.
Personal Protection B	D	Face shield, gloves, protective apron.
	E	Safety glasses, gloves, dust respirator.
	F	Safety glasses, gloves, protective apron, dust respirator.
	G	Safety glasses, gloves, vapor respirator.
	H	Splash glasses, gloves, protective apron, vapor respirator.
	I	Safety glasses, gloves, dust respirator, vapor respirator.
	J	Safety glasses, gloves, protective apron, dust respirator, vapor respirator.
	K	Air line mask or hood, gloves, full suit, boots.
NFPA Aerosol Level:		
NA		
NA: Not Applicable TLV: Threshold Limit Values ND: Not Determined		

Creation date:	Last revision date:	Next revision date:	Created by:
03/Jan/2008	21/abr/2010	21/abr/2011	Jesus Armando Salazar De Leon

DISCLAIMER

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