

Material Safety Data Sheet #110 Alkaline Cleaner

Section 1. Chemical Product and Company Identification

Product Name	#110 Alkaline Cleaner	
Product Number		
Manufacturer/ Supplier	NuTech Specialties, Inc. 9811 So. 6150 W. West Jordan, UT 84088	
Phone Number	(801) 253-1000 (Mon-Fri/ 8am- 5pm MT)	
D.O.T. Emergency Phone:	1-800-633-8253	
Date of Preparation	January 18, 2013	Revision Number 1.0

Section 2. Hazards Identification

Emergency overview	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
DANGER!	
Keep out of reach of children. Keep container closed during storage. For institutional and commercial use.	
Potential Acute Health Effects	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Non-corrosive for skin. Non-hazardous in case of inhalation.
Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion.
Eyes	Corrosive to the eyes, and with greater exposures, may cause severe burns with possible blindness may result.
Skin	Irritant to skin. May cause from mild to severe irritation depending on amount of contact.
Inhalation	Slight irritant
Ingestion	Corrosive, swallowing may cause severe burns of mouth, throat, and stomach. Severe scarring of tissue and death may result.
Medical conditions aggravated by exposure:	Because of its irritating properties, product may aggravate preexisting skin, eye, and respiratory conditions.
Potential Chronic Health	There is no known effect from chronic exposure to this product.
Carcinogenic Effects	Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.
Target Organs	Skin, eyes, gastrointestinal tract and respiratory system. This product is a "Hazardous Chemical" as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200
Environmental Effects	May cause long-term adverse effects in the aquatic environment. See Section 12 for more information

Section 3. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits	LC ₅₀ /LD ₅₀
Sodium Hydroxide	1310-73-2	>1.5	2MG/M3	

Section 4. First Aid Measures

Eye Contact	Wash eyes with plenty of water for at least 5 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
Skin Contact	In case of contact with skin immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion	if swallowed, DO NOT INDUCE VOMITING. Give large quantities of water or milk if available. Never give anything by mouth to an unconscious person. Seek medical attention.
General Advice	In case of Accident or if you feel unwell, seek medical advice immediately (show label or MSDS where possible).
Notes to Physician	Symptoms may not appear immediately.

Section 5. Fire Fighting Measures

Flammability	Not available by OSHA criteria
Fire Fighting Media and instructions	Not available, treat for surrounding material.
Products of Combustion	May include, and are not limited to: Oxides of potassium.
Special Remarks on Fire Hazards	N/A
Special Remarks on Explosion Hazards	Not available
Sensitivity to Mechanical Impact	Not available
Sensitivity to Static Discharge	N/A
Protection of Fire Fighters	Keep upwind of fire. Wear full fire fighting turn-out gear (full bunker gear) and respiratory protection (SCBA)

Section 6. Accidental Release Measures

Personal Precautions	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
Methods for Containment	Contain and/or absorb spill with inert material, then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Environmental Precautions	This material must be disposed of in accordance with local, state, provincial, and federal regulations.
Methods for Clean Up	Contain spill and dilute with clear water, wash all surfaces with clear water. Soak into absorbent material. Spill of this material are a slipping hazard. Thoroughly wash the area with water after a spill or leak.

Section 7. Handling and Storage

Precautions	Avoid contact with skin and eyes. DO NOT swallow. DO NOT breathe gas / fumes / vapor / spray. Handle and open container with care. When using do not eat or drink. Wash hands before eating, drinking, or smoking. After handling always wash hands thoroughly with soap and water.
Incompatibility	Contact with strong acids and organic halogen compounds, especially trichloroethylene, may cause nitro-compounds causes formation of shock-sensitive salts. Contact with metals such as aluminum, tin, and zinc cause formation of flammable hydrogen gas.
Storage	Keep out of the reach of children. Not for use or storage in or around the home. Keep container tightly closed, keep contents from freezing.

Keep out of reach of children.
Keep container closed during storage.

Section 8. Exposure Controls/Personal Protection

Engineering Controls	
Personal Protection	Good general ventilation should be sufficient to control airborne levels.
Eyes	Safety glasses or goggles
Body	Wear suitable protective clothing. Apron id desired.
Respiratory	None required
Hands	Impervious rubber gloves

Protective Clothing (Pictograms)



Exposure Limits See Section 2 For Applicable Exposure Limits.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Clear Liquid
Molecular Weight	N/A
Ph	13.0-13.5

Boiling/Condensation Point	212 F
Melting/Freezing Point	N/A
Critical Temperature	N/A
Instability Temperature	N/A
Specific Gravity	(H2O = 1): 1.115
Vapor Pressure	(Non-Aerosols) (mm Hg and Temperature): N/A
Vapor Density	(Air = 1)
Volatility	N/A
VOC	N/A
Evaporation Rate	(H2O = 1): N/A
Dispersion Properties	N/A
Solubility	Complete in water
The Product is:	Caustic Liquid
Auto-ignition Temperature	N/A
Flash Points	N/A
Flammable Limits	N/A
Fire Hazards in Presence Of Various Substances	N/A
Explosion Hazards in Presence of Various Substances	N/A
Odor	Slight
Color	Clear

Section 10. Stability and Reactivity Data

Stability	The product is stable.
Incompatibility with Various Substance	No incompatible product according to our data base
Hazardous Decomposition Products	Will not occur

Section 11. Toxicological Information

Routes of Entry	Absorbed through skin. Eye contact. Inhalation. Ingestion
Toxicity to Animals	TOXICITY: No LD50/LC50 information found relating to normal occupational exposure. Sodium Hydroxide: Irritant data: Skin, Rabbit: 50MG.24 H severe
Acute Effects on Humans	Acute oral toxicity (LD50): 4000 mg/kg {Rat}. (Triethanolamine)

Eyes	Corrosive to the eyes, and with greater exposures, may cause severe burns with possible blindness may result.
Skin	Irritant to skin. May cause from mild to severe irritation depending on amount of contact.
Inhalation	Slight irritant
Ingestion	Corrosive, swallowing may cause severe burns of mouth, throat, and stomach. Severe scarring of tissue and death may result.
Chronic Effects on Humans	There is no known effect from chronic exposure to this product.
Special Remarks on Toxicity to Animals	Not available
Special Remarks on Chronic Effects on Humans	Not available

Section 12. Ecological Information

Ecotoxicity	May cause long-term adverse effects in the aquatic environment.
BOD5 and COD	Not available
Products of Biodegradation	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation	Not available
Special Remarks on the Products of Biodegradation	Not available

Section 13. Disposal Considerations

Waste Information	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Waste Stream	Not available

Section 14. Transport Information

DOT (U.S.A.) (Pictograms)	
TDG Classification	Not controlled under TDG (Canada)
PIN UN, Proper Shipping Name, PG	Not applicable
Maritime Transportation	Not available
Special Provisions for Transport	Not available

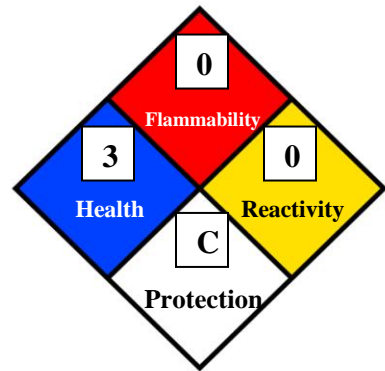
Section 15. Regulatory Information and Pictograms

Regulatory Lists	No products were found.	
Other Regulations	Not available, or of its ingredients	
Other Classifications	HCS (U.S.A.)	Not controlled under HCS (United States)
	USA Regulatory Lists	This product does NOT contain components that are known to the state of California to Cause Cancer or Reproductive Harm at or above California Prop 65 No Observable Effect Level (NOEL) SARA 302 Extremely Hazardous Substances - Not listed SARA 311 - 1. Immediate (acute) health hazard SARA 313 Toxic Chemical List – Not listed
	DSD (EEC)	This product is not classified according to the EU regulations.
	International Regulations Lists	No Products were found.

Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)



WHMIS (Classification) Not controlled under WHMIS (Canada).

The Hazard Ranking systems presented on this MSDS sheet provide only a quick reference for hazard information. The ENTIRE MSDS must be consulted to determine any specific hazards, First Aid measures, and PPE associated with this product.

Section 16. Other Information

Expiry Date 3 (Three Years) from the date of preparation indicated in Section 1

Validated by _____ **Verified by** _____

Information Contact _____ **Printed** _____

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Validated on _____ **NuTech Specialties, Inc.**