

Liquid B Brite

Non-Foaming Caustic Detergent

Liquid B Brite is a low-foam, high caustic liquid detergent for use in manual cleaning applications as well as automatic spray wash equipment including circulation (C.I.P.), pressure washing, boil-out, soak and fog cleaning. Liquid B Brite cuts through heavy grease & oil and rinses away easily and completely.

- **Extremely High Alkalinity**
- **Cuts Through Heavy Carbon and Grease**
- **Rinses Easily**
- **Effective in CIP, Dairy & Bottle Wash Applications**

Usage Directions: C.I.P. APPLICATIONS: Flush system with water. Prepare a solution of ½ to 6 oz of product per gallon of water, depending on the severity and type of soils. Circulate through the system until soils are loosened and/or removed as determined by inspection. Drain system and rinse thoroughly with potable water.

BOIL-OUT AND SOAK OPERATIONS: Dilute 3 to 12 oz of product per gallon of water. Heat solution and allow soaking until soils are loosened and/or removed as determined by inspection. Scrub or hand detail with a nylon pad or brush if necessary. Drain system and rinse thoroughly with potable water.

FOG CLEANING FOR OVENS AND SMOKEHOUSES: Warm smokehouse or oven to approximately 100°F(38°C) to 120°F(49°C). Dilute 10 - 20 oz of product per gallon of water. Apply product to all internal surfaces of the oven or smokehouse through the an appropriate fogger. Use the equipment's internal air handling system to circulate the fogged detergent. Allow product to settle or dissipate prior to opening the oven or smokehouse. Thoroughly rinse all surfaces with potable water.

Safety & Hazards



Wear Protective Eye Glasses, Chemical-Resistant Gloves and Waterproof Apron While Using Liquid B Brite

Consult SDS for Further Safety Precautions

DOT Shipping Name: UN 1823, Sodium Hydroxide Solution, 8, PG II

Technical Information:

Appearance: Clear Light Brown Liquid
Odor: None
pH: >13
Foam: Non-Foaming

Associated Products:

FCC-3, Foaming Chlorinated Detergent With Caustic & Rinse Agents
Detergent Concentrate, Heavy Duty Detergent & Foam Booster
MG Peracid 6, 5.6% Peroxyacetic Acid Sanitizer
MG 4-Quat, 5th Generation Quaternary Sanitizer & Disinfectant

Liquid B Brite

Dilution Guidelines

Usage	Dilution
Clean-In-Place	½ to 6 oz per Gallon
Boil-Out	3 - 12 oz per Gallon
Fog Cleaning	10 - 20 oz per Gallon

Titration Kit:

MRTK3000-Z, High-Alkalinity / Caustic Titration. 1 Drop = 0.160 oz per gallon

Warning: May Damage Painted Surfaces, Aluminum, Brass, Copper, Galvanized And/OR Other Soft Metals. Do Not Mix With Acidic Products.

Products Manufactured By:

Morgan Gallacher, Inc.
SUPERIOR CLEANING PRODUCTS
8787 Millergrove Drive - Santa Fe Springs, CA 90670
(562) 695-1232 - FAX: (562) 699-8953

Product Selection and General Use Chart

Liquid B Brite

General Use: Non-Foaming Caustic Detergent

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Safety & Hazards



Danger: Read label before use. Do not get in eyes, on skin, or on clothing. Do not breathe dust/fume/gas/mist/ vapors/spray. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Take any precaution to avoid mixing with Acid Products Causes severe skin burns and eye damage. Harmful if swallowed. May be corrosive to metals.

Product Class: Caustic

Protective Equipment Guide

A			
B			
C			
D			
E			
F			
G			
H			
I			
J			
K			
X	Ask Your Supervisor for Special Handling Instructions		

Wear Protective Eye Glasses, Chemical-Resistant Gloves and Waterproof Apron While Using Liquid B Brite

Attention: May Damage Painted Surfaces, Aluminum, Brass, Copper, Galvanized And/Or Other Soft Metals. Do Not Mix With Acidic Products.

Products Manufactured By:

Letter of Guarantee

Liquid B Brite

Morgan-Gallacher, Inc. guarantees the product Liquid B Brite complies with the requirements set forth by the USDA FSIS for Nonfood Compounds Category Code A1: Cleaning Product - General Use. The description of Category Code A1 Cleaning Product - General Use is as follows:

These products are used for general cleaning on all surfaces, or for use with steam or mechanical cleaning devices in all departments. They are typically neutral or mildly alkaline products consisting of any combination of soaps, detergents, wetting agents, emulsifiers, solubilizers, and common inorganic builders.

The following apply to this product as well as all other cleaning products under Category Code A1:

1. All food products and packaging materials shall be removed or carefully protected prior to usage;
2. A potable water rinse is required after use;
3. When used according to manufacturer's instructions, cleaners shall not exhibit a noticeable odor nor leave a visible residue;

Liquid B Brite is free from undesirable microorganisms and is guaranteed safe and adequate as Category Code: A1 Cleaning Product - General Use when used as directed. This product does not intentionally contain any of the following heavy metals: antimony, arsenic, cadmium, lead, mercury, or selenium. None of the ingredients in this product are considered to be carcinogens, mutagens, teratogens, mineral acids, or odorous unless otherwise specified.

This document serves as a continuing letter of assurance and satisfies the conditions of 21 CFR Section 110.35 and the USDA Sanitation Performance Standards Compliance Guide.

Sincerely,

Original Signed By:

Ida Mariam
VP Technology & Regulatory Affairs

January 21, 2016

Date

Letter of Guarantee

Liquid B Brite

Morgan-Gallacher, Inc. guarantees the product Liquid B Brite complies with the requirements set forth by the USDA FSIS for Nonfood Compounds Category Code A2: Cleaning Product - Soak Tanks and Steam/Mechanical Cleaning. The description of Category Code A2 Cleaning Product - Soak Tanks and Steam/Mechanical Cleaning is as follows:

These strongly alkaline products (containing in excess of 20 percent caustic soda or other ingredients with the equivalent causticity) may be acceptable for use in soak tanks or with steam or mechanical cleaning devices in any department.

The following apply to this product as well as all other cleaning products under Category Code A2:

1. All food products and packaging materials shall be removed or carefully protected prior to usage;
2. A potable water rinse is required after use;
3. When used according to manufacturer's instructions, cleaners shall not exhibit a noticeable odor nor leave a visible residue;

Liquid B Brite is free from undesirable microorganisms and is guaranteed safe and adequate as Category Code: A2 Cleaning Product - Soak Tanks and Steam/Mechanical Cleaning when used as directed. This product does not intentionally contain any of the following heavy metals: antimony, arsenic, cadmium, lead, mercury, or selenium. None of the ingredients in this product are considered to be carcinogens, mutagens, teratogens, mineral acids, or odorous unless otherwise specified.

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Original Signed By:

Ida Mariam

VP Technology & Regulatory Affairs

January 21, 2015

Date

Concentration Verification Procedure

Liquid B Brite

Procedure No: Caus1

Procedure Name: High-Alkalinity / Caustic
Titration

Test Kit No: MRTK3000-Z

Factor: 1 Drop = 0.160 oz per gallon

Purpose:

To measure concentration of high-alkaline, or caustic detergent

Required Components:

- 1) 10 mL Vial
- 2) Phenolphthalein Indicator (MRPH1605)
- 3) Hydrochloric Acid 7.7N (MRHA6207)

Procedure

- 1) Rinse vial 3 times with solution to be tested.
- 2) Fill vial to the 10 mL mark with sample.
- 3) Add 3 drops of Phenolphthalein Indicator (MRPH1605) and swirl to mix. The sample should turn bright pink.
- 4) Add Hydrochloric Acid 7.7N (MRHA6207) drop-wise while swirling until the sample returns to its original color. Record the number of drops.
- 5) Multiply the number of drops by the factor to obtain amount of product.

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Dilution Guidelines

Usage	Dilution
Clean-In-Place	½ to 6 oz per Gallon
Boil-Out	3 - 12 oz per Gallon
Fog Cleaning	10 - 20 oz per Gallon

These Guidelines Serve as Recommended Starting Points For Diluting This Product Only. The Dilution Required For Your Tank Depends On Contact Time, Temperature, Soil Load, and Other Factors Will Determine the Actual Dilution Required. Consult Your Morgan Gallacher Representative for More Specific Dilution Guidelines.

Danger: This product contains Sodium Hydroxide. Causes severe skin burns and eye damage. Harmful if swallowed. May be corrosive to metals. Read label before use. Do not get on skin, or on clothing. Do not breathe dust/fume/gas/mist/ vapors/spray. Wash hands thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Take any precaution to avoid mixing with Acid Products

Net Contents:

Lot No.:

DOT Shipping Name: UN 1823, Sodium Hydroxide Solution, 8, PG II

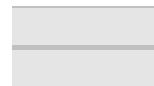
Manufactured By:



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...-Gallacher, Inc.

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Safety & Hazards



Wear Protective Eye Glasses, Chemical-Resistant Gloves and Waterproof Apron While Using Liquid B Brite

Consult SDS for Further Safety Precautions

This Product Is Intended For Industrial and Institutional Use Only

KEEP OUT OF REACH OF CHILDREN

May Damage Painted Surfaces, Aluminum, Brass, Copper, Galvanized And/Or Other Soft Metals. Do Not Mix With Acidic Products.

Empty Container Storage & Handling

Ensure Compliance with Local, State & Federal Regulations in Disposing of Container, Residual Contents and Rinsings. Drum Containers Must Be Completely Drained, Properly Closed and Promptly Returned to a Drum Reconditioner for Commercial Cleaning.

GHS Response Phrases

- IF ON SKIN** Remove/take off immediately all contaminated clothing. Rinse skin with plenty of water for 15 minutes. Get immediate medical advice/attention.
- IF IN EYES** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
- IF INHALED** Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Get immediate medical advice/attention.
- IF INGESTED** Rinse mouth. Do NOT induce vomiting. Get immediate medical advice/attention.

In Case of Emergency, Call Chemtrec 800-424-9300

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: MORGAN-116-BULK
Product Name: Liquid B Brite
Company Name: Morgan-Gallacher, Inc.
8707 Millergrove Drive
Santa Fe Springs, CA 90670
Phone Number: +1 (562)695-1232
Emergency Contact: CHEMTREC +1 (800)424-9300

2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 1A
Acute Toxicity: Oral, Category 4
Serious Eye Damage/Eye Irritation, Category 2A
Corrosive To Metals, Category 1



GHS Signal Word: **Danger**

GHS Hazard Phrases: H290 - May be corrosive to metals.
H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.

GHS Precaution Phrases: P102 - Keep out of reach of children.
P103 - Read label before use.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P262 - Do not get in eyes, on skin, or on clothing.
P264 - Wash hands thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Take any precaution to avoid mixing with Acid Products

GHS Response Phrases: P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with plenty of water for 15 minutes.
P315 - Get immediate medical advice/attention.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342 - If experiencing respiratory symptoms: P315 - Get immediate medical advice/attention.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P315 - Get immediate medical advice/attention.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P315 - Get immediate medical advice/attention.

GHS Storage and Disposal Phrases: P405 - Store locked up.
P501 - Dispose of contents/container in accordance to local, state and federal regulations.

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

**Potential Health Effects
(Acute and Chronic):**

Inhalation: Irritation may lead to chemical pneumonitis and pulmonary edema. Causes severe irritation of upper respiratory tract with coughing, burns, breathing difficulty, and possible coma. Causes chemical burns to the respiratory tract.

Skin Contact: Causes skin burns. May cause skin rash (in milder cases), and cold and clammy skin with cyanosis or pale color.

Eye Contact: Causes eye burns. May cause chemical conjunctivitis and corneal damage.

Ingestion: May cause severe and permanent damage to the digestive tract. Causes gastrointestinal tract burns. Causes severe pain, nausea, vomiting, diarrhea, and shock.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
1310-73-2	Sodium hydroxide	<45.0 %

4. FIRST AID MEASURES

**Emergency and First Aid
Procedures:**

In Case of Inhalation: If inhaled, remove to fresh air. Get medical aid.

In Case of Skin Contact: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid immediately. Wash clothing before reuse.

In Case of Eye Contact: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

In Case of Ingestion: If swallowed, do NOT induce vomiting. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person.

Note to Physician: Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

5. FIRE FIGHTING MEASURES

Flash Pt: NP

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: NP

Suitable Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. For large fires, use water spray, fog, or alcohol-resistant foam. Use water spray to cool fire-exposed containers. Do NOT use straight streams of water.

Fire Fighting Instructions: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Use water spray to keep fire-exposed containers cool. Use water with caution and in flooding amounts. Contact with metals may evolve flammable hydrogen gas.

Flammable Properties and Hazards: No data available.

Hazardous Combustion Products: No data available.

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures:	Use proper personal protective equipment as indicated in Section 8.
Environmental Precautions:	Observe all federal, state, and local environmental regulations. Do not let product enter drains, sewers, watersheds or water systems.
Steps To Be Taken In Case Material Is Released Or Spilled:	Clean up spills immediately, observing precautions in the Protective Equipment section. Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Provide ventilation.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:	Wash thoroughly after handling. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use only with adequate ventilation.
Precautions To Be Taken in Storing:	Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from metals. Keep away from acids.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
1310-73-2	Sodium hydroxide	PEL: 2 mg/m ³	CEIL: 2 mg/m ³	No data.
Respiratory Equipment (Specify Type):	Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.			
Eye Protection:	Wear chemical splash goggles.			
Protective Gloves:	Wear appropriate protective gloves to prevent skin exposure. Rubber or neoprene gloves.			
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure.			
Engineering Controls (Ventilation etc.):	Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.			
Work/Hygienic/Maintenance Practices:	Handle in accordance with good industrial hygiene and safety practice.			

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[] Gas [X] Liquid [] Solid	
Appearance and Odor:	Light brown. Slightly hazy liquid.	
pH:	No data.	
Melting Point:	NA	
Boiling Point:	NA	
Flash Pt:	NP	
Evaporation Rate:	No data.	
Flammability (solid, gas):	No data available.	
Explosive Limits:	LEL: No data.	UEL: No data.
Vapor Pressure (vs. Air or mm Hg):	No data.	
Vapor Density (vs. Air = 1):	No data.	

Specific Gravity (Water = 1): 1.461 - 1.481
Solubility in Water: 100%
Octanol/Water Partition Coefficient: No data.
Autoignition Pt: NP
Decomposition Temperature: NA
Viscosity: No data.

10. STABILITY AND REACTIVITY

Stability: Unstable [] Stable [X]
Conditions To Avoid - Instability: Extremes of temperature and direct sunlight.
Incompatibility - Materials To Avoid: Acids, Strong oxidizing agents. Contact of this product with many "active" metals such as aluminum, tin, copper, zinc, and most alloys can cause formation of flammable hydrogen gas.
Hazardous Decomposition or Byproducts: Hazardous decomposition products formed under fire conditions: Toxic fumes of sodium oxide.
Possibility of Hazardous Reactions: Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions: No data available.

11. TOXICOLOGICAL INFORMATION

Toxicological Information: Neurotoxicity: No information available.
Reproductive Effects: No information available.
Epidemiology: No information found.
Teratogenicity: No information available.
Mutagenicity: No information found.

Irritation or Corrosion: Other Studies: CAS# 1310-73-2
Acute toxicity, LD50, Oral, Mouse, 5800mg/kg.

Other Studies: CAS# 1310-73-2
Standard Draize Test, Eyes, Species: Rabbit, 400.0 ug

Carcinogenicity/Other Information: Carcinogenicity.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

CAS# 1310-73-2: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION

General Ecological Information: Environmental: No information available.
Physical: No information available.

Results of PBT and vPvB assessment: Other Studies: CAS# 1310-73-2:
LC50, Common Shrimp, Sand Shrimp (Crangon crangon), adult(s), 33000 - 100000 ug/L, 48H, Mortality
LC50, Western Mosquitofish (Gambusia affinis), adult(s), 125000 ug/L, 96H, Mortality
LC50, Cockle (Cerastoderma edule), adult(s) 330000 - 1000000 ug/L, 48H, Mortality
LC50, Guppy (Poecilia reticulata)}, young organism(s), 196.0 mg/L, 96H, Mortality

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Sodium hydroxide solution.
DOT Hazard Class: 8 CORROSIVE
UN/NA Number: UN1824 **Packing Group:** II



15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
1310-73-2	Sodium hydroxide	No	Yes 1000 LB	No

CAS #	Hazardous Components (Chemical Name)
1310-73-2	Sodium hydroxide

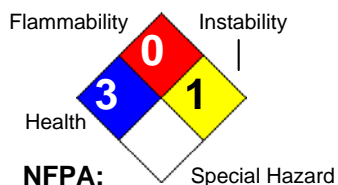
Other US EPA or State Lists

TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Yes; MI CMR, Part 5: Part 5; NJ EHS: Yes - 1706; NY Part 597: Yes; PA HSL: Yes - E

16. OTHER INFORMATION

Revision Date: 07/06/2015

Hazard Rating System:



Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

While Morgan-Gallacher believes the statements set forth herein are accurate as of the date hereof, Morgan-Gallacher makes no warranty with respect thereto and expressly disclaims all liability for reliance thereon. Such data is offered solely for your consideration, investigation, and verification.

1. IDENTIFICACIÓN DEL PRODUCTO QUÍMICO Y LA EMPRESA

Código del Producto: MORGAN-116-BULK
Nombre del Producto: Liquid B Brite
Nombre de la Empresa: Morgan-Gallacher, Inc.
8707 Millergrove Drive
Santa Fe Springs, CA 90670
Número De Teléfono: +1 (562)695-1232
Contacto De la Emergencia: CHEMTREC +1 (800)424-9300

2. IDENTIFICACIÓN DE LOS RIESGOS

Corrosión/irritación cutáneas, Categoría 1A
Toxicidad aguda por ingestión, Categoría 4
Lesiones oculares graves/irritación ocular, Categoría 2A
Sustancias y mezclas corrosivas para los metales, Categoría 1



SGA Palabra de advertencia: Peligro

Frases del peligro de SGA: H290 - Puede ser corrosiva para los metales.
H302 - Dañino si es deglutido.
H314 - Provoca graves quemaduras en la piel y lesiones oculares.

Frases de la precaución de SGA: P102 - Mantener fuera del alcance de los niños.
P103 - Leer la etiqueta antes del uso.
P260 - No respirar polvos/humos/gases/nieblas/vapores/aerosoles.
P262 - Evitar todo contacto con los ojos, la piel o la ropa.
P264 - Lavarse cuidadosamente las manos después de la manipulación.
P280 - Usar guantes /ropa protectora/equipo de protección para los ojos/la cara.
Tomar todas las precauciones necesarias para no mezclar con materias ... otras materias incompatibles especificadas por el fabricante /proveedor o la autoridad competente.

Frases de la respuesta de SGA: P303+361+353 - EN CASO DE CONTACTO CON LA PIEL (o el pelo): Quitar inmediatamente la ropa contaminada. Lavar la piel con agua/ ducharse.
P315 - Buscar asistencia médica inmediata.
P304+340 - EN CASO DE INHALACIÓN: Transportar a la víctima al aire libre y mantenerla en una posición que facilite la respiración.
P342 - En caso de síntomas respiratorios: P315 - Buscar asistencia médica inmediata.
P305+351+338 - EN CASO DE CONTACTO CON LOS OJOS: Lavar con agua cuidadosamente durante varios minutos. Quitar en su caso las lentes de contacto, si puede hacerse con facilidad. Proseguir con el lavado.
P315 - Buscar asistencia médica inmediata.
P301+330+331 - EN CASO DE INGESTIÓN: Enjuagarse la boca. NO provocar el vómito. P315 - Buscar asistencia médica inmediata.

Frases del almacenaje y de la disposición de SGA: P405 - Guardar bajo llave.
P501 - Eliminar el contenido/recipiente ...

Estado regulador del OSHA: Este material está clasificado como peligroso bajo las regulaciones de la OSHA.

Potenciales efectos en la salud (Agudo o Crónico):

Inhalación:	La irritación puede llevar a la neumonitis química y al edema pulmonar. Causa la irritación severa de las vías respiratorias superiores con toser, las quemaduras, dificultad de respiración, y la coma posible. El producto químico de las causas quema a las vías respiratorias.
Contacto con la piel:	Provoca quemaduras en la piel. Podría causar la erupción de piel (en casos más suaves), y la piel fría y húmeda con cianosis o color pálido.
Contacto con los ojos:	Provoca quemaduras en los ojos. Podía causar conjuntivitis química y daño córneo.
Ingestión:	Podía causar daño severo y permanente a la zona digestiva. Quemaduras del aparato gastrointestinal de las causas. Causa dolor severo, náusea, vomitar, diarrea, y choque.

3. COMPOSICIÓN/ INFORMACIÓN SOBRE LOS COMPONENTES

Numeros	Componentes peligrosos [química nombre]	Concentración
1310-73-2	El hidróxido de sodio	<45.0 %

4. MEDIDAS EN PRIMEROS AUXILIOS

Procedimientos de

Emergencia y Primeros

Auxilios:

En caso de inhalación:	En caso de inhalación, sacar al sujeto al aire libre. Consiga la ayuda médica.
En caso de contacto con la piel:	Limpie la piel con un chorro de agua con el un montón de 15 minutos del agua por lo menos mientras que quita la ropa contaminada y los zapatos. Consiga la ayuda médica inmediatamente. Lave la ropa antes de la reutilización.
En caso de contacto con los ojos:	En caso de contacto, limpie inmediatamente los ojos con un chorro de agua con el un montón de agua para un t menos 15 minutos. Quitar las lentes de contacto, si lleva y resulta fácil. Seguir aclarando. Buscar asistencia médica inmediata.
En caso de ingestión:	Si está tragado, no induzca vomitar. Si la víctima es completamente consciente, dé una copa de agua. Nunca debe administrarse nada por la boca a una persona inconsciente.
Informe para el médico:	Convite sintomático y de apoyo. Mostrar esta ficha de seguridad al doctor que esté de servicio.

5. MEDIDAS DE LUCHA CONTRA INCENDIOS

Punto de encendido:	NP
Límites de explosión:	LEI: No información LES: No información
Punto de Auto-Ignición:	NP
Medios Que extinguen Convenientes:	Para pequeños incendios, use polvo químico seco, dióxido de carbono, agua pulverizada o espuma resistente al alcohol. Para incendios grandes, utilice agua pulverizada, niebla o espuma resistente al alcohol. Utilice el aerosol de agua para refrescar los envases fuego-expuestos. No utilice las corrientes rectas del agua.
Instrucciones para combatir el fuego:	Como en cualquier fuego, use un aparato respiratorio autónomo en presión-exigen, MSHA/NIOSH (aprobado o equivalente), y engranaje protector lleno. Utilice el aerosol de agua para mantener los envases fuego-expuestos frescos. Utilice el agua con la precaución y en cantidades de la inundación. El contacto con los metales puede desarrollar el gas de hidrógeno inflamable.
Propiedades y riesgos de materiales inflamables:	No disponible
Productos peligrosos combustión:	No disponible

6. MEDIDAS CONTRA FUGAS ACCIDENTALES

- Precauciones protectoras, equipo protector y procedimientos de emergencia:** Utilice el equipo protector personal apropiado según lo indicado en la sección 8.
- Precauciones ambientales:** Observar todos los reglamentos estatales y locales sobre la protección del medio ambiente. No dejar que el producto penetre en los desagües, alcantarillas, cuencas o sistemas hídricos.
- Pasos a ser tomados en cuenta en caso de que material se fugue o derrame:** Limpie los derramamientos inmediatamente, observando precauciones en la sección del equipo protector. Absorba el derramamiento con el material inerte (e.g. vermiculita, arena o tierra), después colóquelo en envase conveniente. Proporcione la ventilación.

7. MANIPULACIÓN Y ALMACENAMIENTO

- Precauciones a ser tomadas en la manipulación:** Lavarse cuidadosamente después de la manipulación. No consiga en ojos, en piel, o en la ropa. Mantenga el envase cerrado firmemente. Evite la ingestión y la inhalación. Utilice solamente con la ventilación adecuada.
- Precauciones para ser tomadas en almacenaje:** Almacén en un firmemente de contenedor cerrado. Almacén en un área fresca, seca, well-ventilated lejos de sustancias incompatibles. Guarde lejos de los metales. Guarde lejos de los ácidos.

8. CONTROL DE EXPOSICIÓN / PROTECCIÓN PERSONAL

Numeros	Nombre Químico Parcial	OSHA TWA	ACGIH TWA	Otra Limites
1310-73-2	El hidróxido de sodio	PEL: 2 mg/m ³	CEIL: 2 mg/m ³	No información
Equipo respiratorio (especificar el tipo):	Utilice un NIOSH/MSHA o el EN del estándar europeo 149 aprobó el respirador si se exceden los límites de exposición o si la irritación u otros síntomas es experimentados.			
Protección ocular:	Anteojos químicos del chapoteo del desgaste.			
Guantes protectores:	Use los guantes protectores apropiados para prevenir la exposición de piel. Guantes de goma o neopreno.			
Otras ropas protectoras:	Use la ropa protectora apropiada para prevenir la exposición de piel.			
Medidas de ingeniería [ventilación, etc.]:	Las instalaciones que almacenan o que utilizan este material se deben equipar de una facilidad del colirio y de una ducha de la seguridad. Utilice la ventilación de extractor general o local adecuada para guardar concentraciones aerotransportadas debajo de los límites de exposición permitidos.			
Prácticas de trabajo / higiene / mantenimiento:	Manipular con las precauciones de higiene industrial adecuadas, y respetar las prácticas de seguridad.			

9. PROPIEDADES FÍSICAS Y QUÍMICAS

Estado físico:	[] Gas [X] Líquido [] Solido	
Aspecto y Olor:	Castaño claro. Líquido ligeramente turbio.	
pH:	No información	
Punto de Fusión:	NA	
Punto de Ebullición:	NA	
Punto de encendido:	NP	
Índice de evaporación:	No información	
Flammability (solid, gas):	No disponible	
Límites de explosión:	LEI: No información	LES: No información
Presión de Vapor (vs. Aire o mm Hg):	No información	
Densidad de Vapor (vs. Aire = 1):	No información	
Gravedad Específica (Agua = 1):	1.461 - 1.481	
Solubilidad en Agua:	100%	
Coefficiente de Partición de Octanol/Agua:	No informaci	
Punto de Auto-Ignición:	NP	
Temperatura de descomposición:	NA	
Viscosidad:	No información	

10. ESTABILIDAD Y REACTIVIDAD

Estabilidad:	Inestable [] Estable [X]
Condiciones para evitar - Inestabilidad:	Temperaturas extremas y luz directa del sol.
Incompatibilidad - Materiales para evitar:	ácidos, Oxidante fuertes. El contacto de este producto con muchos metales "activos" como el aluminio, el estano, el cobre, el zinc, y la aleacion pueden causar la formación de gas hidrógeno inflamable.
Peligrosa descomposición o derivados del producto:	Productos de descomposición peligrosos formados en condiciones de incendio: Humos tóxicos del óxido del sodio.
Posibilidad de reacciones peligrosas:	Sucedará [] No sucedará [X]
Condiciones para evitar - Reacciones Peligrosas:	No disponible

11. INFORMACIÓN TOXICOLÓGICA

Información Toxicológica:	Neurotoxicidad: Ninguna información disponible. Efectos reproductivos: Ninguna información disponible. Epidemiología: Ninguna información encontrada. Teratogenicidad: Ninguna información disponible. Mutagenicidad: Ninguna información encontrada.
Irritación o la corrosión:	OOtros Estudios: CAS # 1310-73-2 Toxicidad aguda, DL50, oral, ratón, 5.800 mg/kg.
Carcinogenicidad/Otras informaciones:	Otros Estudios: CAS # 1310-73-2 Prueba Draize estándar, Ojos, Especies: conejo, 400,0 ug. Carcinogenicidad. ACGIH: No se identifica ningún componente de este producto, que presente niveles mayores que o el igual a 0,1% como cancerígeno o como carcinógeno potencial por la ACGIH. IARC: No se identifica ningún componente de este producto, que presente niveles mayores que o el igual a 0,1% como cancerígeno o como carcinógeno potencial por la IARC. NTP: En este producto no se identifica ningún componente, que presente niveles mayores que o iguales a 0.1%, como agente carcinógeno conocido o anticipado por el (NTP) Programa Nacional de Toxicología. OSHA : Ninguno de los componentes de este producto, que presente niveles mayores que o iguales a 0.1 % se identifica como carcinógeno o carcinógeno potencial por la OSHA . CAS# 1310-73-2: No enumerado por el apoyo 65 del ACGIH, de la CIRC, del NTP, o del CA.
Carcinogenicidad:	NTP No IARC No Regulado por OSHA? No

12. INFORMACIÓN ECOLÓGICA

Información Ecológica:	Medioambiental: No hay información disponible. Físico: No hay información disponible.
Resultados de la valoración PBT y mPmB:	Otros Estudios: CAS # 1310-73-2: CL50, Camarón Común, Camarón Sand (Crangon crangon), adulto (s), 33.000 a 100.000 g / L, 48H, Mortalidad CL50, Mosquitofish Occidental (Gambusia affinis), adulto (s), 125000 ug / L, 96H, Mortalidad CL50, Berberecho (Cerastoderma edule), adulto (s) 330000 a 1000000 ug / L, 48H, Mortalidad CL50, Guppy (Poecilia reticulata)}, organismo joven (s), 196,0 mg / L, 96H, Mortalidad.
Persistencia y degradabilidad:	Sin datos disponibles.
Potencial de bioacumulación:	Sin datos disponibles.
Movilidad en el suelo:	Sin datos disponibles.

13. CONSIDERACIONES RELACIONADAS A LA ELIMINACIÓN

Método de eliminación los desperdicios: Los generadores inútiles del producto químico deben determinar si un producto químico desechado está clasificado como desechos peligrosos. Las pautas de los E.E.U.U. EPA para la determinación de la clasificación se enumeran en 40 partes de CFR 261. Además, los generadores inútiles deben consultar el estado y regulaciones locales de los desechos peligrosos para asegurar la clasificación completa y exacta. Observar todos los reglamentos estatales y locales sobre la protección del medio ambiente. Para la eliminación de este producto, dirigirse a un servicio profesional autorizado.

14. INFORMACIÓN RELACIONADA AL TRANSPORTE

TRANSPORTE POR TIERRA (US DOT):

DOT Nombre propio del envío: Solución de hidróxido de sodio.
Clase De Peligro (DOT): 8 CORROSIVO
Número UN/NA: UN1824 **Grupo del embalaje:** II



15. INFORMACIÓN REGLAMENTARIA

Lista de la Ley de Reautorización y Enmiendas de Grandes Reservas(SARA) del 1986

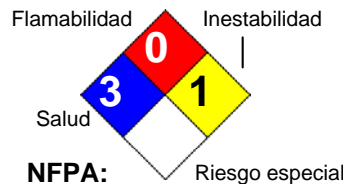
Numeros CAS	Componentes peligrosos [química nombre]	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
1310-73-2	El hidróxido de sodio	No	Sí 1000 LB	No

Numeros CAS	Componentes peligrosos [química nombre]	Otros E.E.U.U. EPA o listas del estado
1310-73-2	El hidróxido de sodio	TSCA: Sí - Inventory; CA PROP.65: No; CA TAC, Title 8: TAC, Title 8; MA Oil/HazMat: Sí; MI CMR, Part 5: Part 5; NJ EHS: Sí - 1706; NY Part 597: Sí; PA HSL: Sí - E

16. OTRAS INFORMACIONES

Fecha de la revisión: 07/06/2015

Sistema de Estimación del Riesgo:



Información adicional acerca de este producto: No disponible

Política o negación de la compañía: Mientras Morgan-Gallacher cree las declaraciones que figuran en el presente documento son exactas a partir de la fecha del presente, Morgan-Gallacher ofrece ninguna garantía con respecto a la misma y se exime expresamente de toda responsabilidad por relación a lo mencionado. Estos datos se brindan sólo para evaluación, investigación y verificación.