

Safety Data Sheet Revision Date: 1/4/2021

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier

 Trade Name
 ALKALINE BOOSTER

 Product Form
 Mixture

 Product Code
 10-00071

 1.2
 Relevant identified uses of the substance or mixture and uses advised against

 Use of Product
 Alkaline Booster

 1.3
 Details of the Supplier of the safety data sheet

ChemQuest Inc. 21365 Hamburg Ave. Lakeville, MN 55024 (877)437-3478 infocg@chemquestinc.com

1.4 Emergency telephone number

Emergency Number ChemTrec 1-800-424-9300

SECTION 2: Hazards Identification

2.1 Classification of the substance

Hazard Code	Hazard Class	Hazard Category
H302	Acute toxicity, oral	4
H314	Skin corrosion/irritation	1B
H370	Specific target organ toxicity, single exposure	1
H373	Specific target organ toxicity, repeated exposure	2
H402	Hazardous to the aquatic environment, acute toxicity	3
H412	Hazardous to the aquatic environment, chronic toxicity	3

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAEFTY PRACTICES

2.2 Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US): Danger

- Hazard Statements (GHS-US):
- H302: Harmful if swallowed

H314: Causes severe skin burns and eye damage

- H370: Causes damage to organs
- H373: May cause damage to organs through prolonged or repeated exposure
- H402: Harmful to aquatic life
- H412: Harmful to aquatic life with long lasting effects

Precautionary Statements (GHS-US):

P260: Do not breathe dust/fumes/gas/mist/vapors/spray

P264: Wash thoroughly after handling

P270: Do not eat, drink or smoke when using this product

P273: Avoid release into the environment

P280: Wear protective gloves/protective clothing/eye protection/face protection

Safety Data Sheet

P310: Immediately call a POISON CENTER or doctor/physician

P321: Specific treatment (see section 4)

P363: Wash contaminated clothing before reuse

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

P307+P311: IF exposed: Call a POISON CENTER or doctor/physician

P405: Store locked up

P501: Dispose of contents/container in accordance with local, state and federal authorities.

2.3 Other Hazards

No additional information available

2.4 Unknown acute toxicity (GHS-US)

No Data Available

SECTION 3: Composition/Information on Ingredients

3.1 Substance

Not applicable

3.2 Mixture

Ingredient Name	CAS #	<u>Composition</u>
Water	7732-18-5	>75%
Sodium Hydroxide	1310-73-2	15-25%
Tetrasodium ethylenediamine tetraacetate	64-02-8	1-5%

SECTION 4: First Aid Measures		
4.1 Description of first aid measure	25	
First-Aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).	
First-Aid after inhalation	IF INHALED. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Use artificial respiration and oxygen if needed. If irritation persists, seek medical attention.	
First-Aid after skin contact	IF ON SKIN. IF ON SKIN (or hair). Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician. Immediately rinse with plenty of water (for at least 15 minutes).	
First-Aid after eye contact	IF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). If irritation persists, seek medical attention.	
First-Aid after ingestion	IF SWALLOWED. Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. Do NOT induce vomiting. Dilute stomach contents by drinking water. If vomiting occurs spontaneously, keep head below hips to prevent breathing vomit into lungs. Call physician immediately.	
4.2 Most important symptoms and	effects, both acute and delayed	
Symptoms/injuries	Harmful if swallowed. Causes severe skin burns and eye damage. Causes damage to organs. May cause damage to organs through prolonged or repeated exposure.	
Symptoms/injuries after inhalation	May cause headache, nausea and irritation of respiratory tract.	
Symptoms/injuries after skin contact	Causes severe skin burns and eye damage.	
Symptoms/injuries after eye contact	Causes severe skin burns and eye damage.	
Symptoms/injuries after ingestion	Harmful if swallowed.	

Safety Data Sheet

Chronic symptoms

May cause damage to organs through prolonged or repeated exposure.

4.3 Indication of immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting Measures			
5.1 Extinguishing media			
Suitable Extinguishing Media	Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray.		
5.2 Special hazards arising from	the substance or mixture		
Fire Hazard	The product is not flammable.		
Explosion Hazard	The product is not explosive.		
Reactivity	Concentrated solution contact with soft metals(e.g. aluminum) will produce hydrogen gas.		
5.3 Special hazards arising from	the substance or mixture		
Firefighting instructions	Do not dispose of fire-fighting water in the environment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.		
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.		

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective	e equipment and emergency procedures			
General measures	Ventilate area. Avoid breathing vapors, mist or gas. Spill should be handled by trained clean-up crews. For personal protection see Section 8.			
6.1.1 For non-emergency personne	I			
Protective equipment	Wear Protective equipment as described in Section 8.			
Emergency procedures	Contain the spill. Do not let product enter drains. Remove unnecessary personnel.			
6.1.2 For emergency responders				
Protective equipment	Wear Protective equipment as described in Section 8.			
6.2 Environmental precautions				
Prevent entry to sewers and public wa	ters. Notify authorities if liquid enters sewers or publics waters.			
6.3 Methods and material for containment and cleaning up				
For containment	Prevent entry to sewers and public waters. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.			
Methods for cleaning up	Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).			

6.4 reference to other sections

No additional information available.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Precautions for safe handling	Do not handle until all safety precautions have been read and understood. Wear proper safety equipment including chemically resistant gloves and safety glasses or goggles. Use with adequate ventilation. Wash thoroughly after handling. Do not get in eyes or on skin. Do not breathe mist or vapor. Do not swallow. Store between 50 F & 100 F. Keep separate from incompatible materials.
7.2 Conditions for safe storage, inc	luding and incompatibilities
Storage conditions	Store locked up. Store in approved containers only. Keep container in a cool, well ventilated place away from heat sources and incompatible materials (See Section 10.5). Keep container tightly closed.

7.3 Specific end uses

No additional information

SECTION 8: Exposure Controls/Personal Protection

8.1 control parameters

Safety Data Sheet

No OSHA and ACGIH PEL's or TLV's for the listed ingredients of this product unless listed stated below:

Sodium hydroxide, CAS # 1310-73-	2		
OSHA PEL (TWA)	OSHA PEL (STEL)	OSHA PEL (Ceiling)	ACGIH-TLV
2 mg/m3	Not Established	Not Established	2 mg/m3(Ceiling)

8.2 Exposure Controls

Personal protective equipment	Protective safety glasses or goggles. Chemically resistant gloves. Protective clothing. Possibly a face shield and or respiratory protection of the dependent type.
Hand protection	Chemical resistant gloves.
Eye protection	Use chemical resistant safety glasses or goggles. A face shield should be worn when the possibility exists for eye or face contact due to spraying liquid or airborne particles.
Skin and body protection	Wear long sleeves. Wear suitable protective clothing. Possibly a face shield.
Respiratory protection	Where excessive vapor, mist, or dust may result, use approved respiratory protection equipment.

SECTION 9: Physical and Chemical Properties

AppearanceWater WhiteColorNoneOdorNoneOdor thresholdNo data availablepH13.2Relative Evaporation rate (butylNo data AvailableMelting pointNo data AvailableFreezing pointNo data AvailableBoiling pointNo data AvailableBoiling pointNo data AvailableSelf ignition pointNo data AvailablePecomposition temperatureNo data AvailablePlanmability (solid, gas)No data AvailableRelative vapor density at 20° CNo data AvailableRelative Density1.247 g/mlSolubilityWater solubleLog FowNo data AvailableViscosity: KinematicNo data AvailableViscosity: KinematicNo data AvailableViscosity: dynamicNo data AvailableExplosive LimitsNo data Available	9.1 Information on basic physica	I and chemical properties	
OdorNoneOdor thresholdNo data availablepH13.2Relative Evaporation rate (butylNo data AvailableMelting pointNo data AvailableFreezing pointNo data AvailableBoiling pointNo data AvailableFlash pointNo data AvailableSelf ignition pointNo data AvailableDecomposition temperatureNo data AvailableFlarmability (solid, gas)No data AvailableVapor pressureNo data AvailableRelative vapor density at 20° CNo data AvailableRelative Density1.247 g/mlSolubilityWater solubleLog FowNo data AvailableViscosity: KinematicNo data AvailableViscosity: dynamicNo data AvailableExplosive propertiesNo data AvailableOxidizing propertiesNo data AvailableOxidizing propertiesNo data Available	Appearance	Water White	
Odor thresholdNo data availablepH13.2Relative Evaporation rate (butylNo data AvailableMelting pointNo data AvailableFreezing pointNo data AvailableBoiling pointNo data AvailableBoiling pointNo data AvailableFlash pointNo data AvailableSelf ignition pointNo data AvailableDecomposition temperatureNo data AvailableFlammability (solid, gas)No data AvailableVapor pressureNo data AvailableRelative vapor density at 20° CNo data AvailableRelative Density1.247 g/mlSolubilityWater solubleLog FowNo data AvailableViscosity: KinematicNo data AvailableViscosity: dynamicNo data AvailableExplosive propertiesNo data AvailableOxidizing propertiesNo data AvailableOxidizing propertiesNo data Available	Color	None	
pH13.2Relative Evaporation rate (butylNo data AvailableMelting pointNo data AvailableFreezing pointNo data AvailableBoiling pointNo data AvailableBoiling pointNo data AvailableFlash pointNo Data AvailableSelf ignition pointNo data AvailableDecomposition temperatureNo data AvailableFlammability (solid, gas)No data AvailableVapor pressureNo data AvailableRelative Density at 20° CNo data AvailableRelative Density1.247 g/mlSolubilityWater solubleLog PowNo data AvailableViscosity: KinematicNo data AvailableViscosity: dynamicNo data AvailableExplosive propertiesNo data AvailableOxidizing propertiesNo data AvailableOxidizing propertiesNo data Available	Odor	None	
Relative Evaporation rate (butylNo data AvailableMelting pointNo data AvailableFreezing pointNo data AvailableBoiling pointNo data AvailableBoiling pointNo data AvailableFlash pointNo data AvailableSelf ignition pointNo data AvailableDecomposition temperatureNo data AvailableFlammability (solid, gas)No data AvailableVapor pressureNo data AvailableRelative vapor density at 20° CNo data AvailableRelative Density1.247 g/mlSolubilityWater solubleLog PowNo data AvailableViscosity: KinematicNo data AvailableViscosity: dynamicNo data AvailableExplosive propertiesNo data AvailableOxidizing propertiesNo data Available	Odor threshold	No data available	
Melting pointNo data AvailableFreezing pointNo data AvailableBoiling pointNo data AvailableBoiling pointNo data AvailableFlash pointNo Data AvailableSelf ignition pointNo data AvailableDecomposition temperatureNo data AvailableFlammability (solid, gas)No data AvailableVapor pressureNo data AvailableRelative vapor density at 20° CNo data AvailableRelative Density1.247 g/mlSolubilityWater solubleLog PowNo data AvailableViscosity: KinematicNo data AvailableViscosity: dynamicNo data AvailableExplosive propertiesNo data AvailableOxidizing propertiesNo data Available	рН	13.2	
Freezing pointNo data AvailableBoiling pointNo data AvailableBoiling pointNo data AvailableFlash pointNo Data AvailableSelf ignition pointNo data AvailableDecomposition temperatureNo data AvailablePlammability (solid, gas)No data AvailableVapor pressureNo data AvailableRelative vapor density at 20° CNo data AvailableRelative Density1.247 g/mlSolubilityWater solubleLog PowNo data AvailableViscosity: KinematicNo data AvailableViscosity: dynamicNo data AvailableExplosive propertiesNo data AvailableOxidizing propertiesNo data Available	Relative Evaporation rate (butyl	No data Available	
Boiling pointNo data AvailableFlash pointNo Data AvailableFlash pointNo data AvailableSelf ignition pointNo data AvailableDecomposition temperatureNo data AvailableFlammability (solid, gas)No data AvailableVapor pressureNo data AvailableRelative vapor density at 20° CNo data AvailableRelative Density1.247 g/mlSolubilityWater solubleLog PowNo data AvailableViscosity: KinematicNo data AvailableViscosity: dynamicNo data AvailableExplosive propertiesNo data AvailableOxidizing propertiesNo data Available	Melting point	No data Available	
Flash pointNo Data AvailableSelf ignition pointNo data AvailableDecomposition temperatureNo data AvailableFlammability (solid, gas)No data AvailableVapor pressureNo data AvailableRelative vapor density at 20° CNo data AvailableRelative Density1.247 g/mlSolubilityWater solubleLog PowNo data AvailableLog KowNo data AvailableViscosity: KinematicNo data AvailableViscosity: dynamicNo data AvailableExplosive propertiesNo data AvailableOxidizing propertiesNo data Available	Freezing point	No data Available	
Self ignition pointNo data AvailableDecomposition temperatureNo data AvailableFlammability (solid, gas)No data AvailableVapor pressureNo data AvailableRelative vapor density at 20° CNo data AvailableRelative Density1.247 g/mlSolubilityWater solubleLog PowNo data AvailableLog KowNo data AvailableViscosity: KinematicNo data AvailableViscosity: dynamicNo data AvailableExplosive propertiesNo data AvailableOxidizing propertiesNo data Available	Boiling point	No data Available	
Decomposition temperatureNo data AvailableFlammability (solid, gas)No data AvailableVapor pressureNo data AvailableRelative vapor density at 20° CNo data AvailableRelative Density1.247 g/mlSolubilityWater solubleLog PowNo data AvailableLog KowNo data AvailableViscosity: KinematicNo data AvailableViscosity: dynamicNo data AvailableExplosive propertiesNo data AvailableOxidizing propertiesNo data Available	Flash point	No Data Available	
Flammability (solid, gas)No data AvailableVapor pressureNo data AvailableRelative vapor density at 20° CNo data AvailableRelative Density1.247 g/mlSolubilityWater solubleLog PowNo data AvailableLog KowNo data AvailableViscosity: KinematicNo data AvailableViscosity: dynamicNo data AvailableExplosive propertiesNo data AvailableOxidizing propertiesNo data Available	Self ignition point	No data Available	
Vapor pressureNo data AvailableRelative vapor density at 20° CNo data AvailableRelative Density1.247 g/mlSolubilityWater solubleLog PowNo data AvailableLog KowNo data AvailableViscosity: KinematicNo data AvailableViscosity: dynamicNo data AvailableExplosive propertiesNo data AvailableOxidizing propertiesNo data Available	Decomposition temperature	No data Available	
Relative vapor density at 20° CNo data AvailableRelative Density1.247 g/mlSolubilityWater solubleLog PowNo data AvailableLog KowNo data AvailableViscosity: KinematicNo data AvailableViscosity: dynamicNo data AvailableExplosive propertiesNo data AvailableOxidizing propertiesNo data Available	Flammability (solid, gas)	No data Available	
Relative Density1.247 g/mlSolubilityWater solubleLog PowNo data AvailableLog KowNo data AvailableViscosity: KinematicNo data AvailableViscosity: dynamicNo data AvailableExplosive propertiesNo data AvailableOxidizing propertiesNo data Available	Vapor pressure	No data Available	
SolubilityWater solubleLog PowNo data AvailableLog KowNo data AvailableViscosity: KinematicNo data AvailableViscosity: dynamicNo data AvailableExplosive propertiesNo data AvailableOxidizing propertiesNo data Available	Relative vapor density at 20° C	No data Available	
Log PowNo data AvailableLog KowNo data AvailableViscosity: KinematicNo data AvailableViscosity: dynamicNo data AvailableExplosive propertiesNo data AvailableOxidizing propertiesNo data Available	Relative Density	1.247 g/ml	
Log KowNo data AvailableViscosity: KinematicNo data AvailableViscosity: dynamicNo data AvailableExplosive propertiesNo data AvailableOxidizing propertiesNo data Available	Solubility	Water soluble	
Viscosity: KinematicNo data AvailableViscosity: dynamicNo data AvailableExplosive propertiesNo data AvailableOxidizing propertiesNo data Available	Log Pow	No data Available	
Viscosity: dynamicNo data AvailableExplosive propertiesNo data AvailableOxidizing propertiesNo data Available	Log Kow	No data Available	
Explosive propertiesNo data AvailableOxidizing propertiesNo data Available	Viscosity: Kinematic	No data Available	
Oxidizing properties No data Available	Viscosity: dynamic	No data Available	
	Explosive properties	No data Available	
Explosive Limits No data Available	Oxidizing properties	No data Available	
	Explosive Limits	No data Available	

9.2 Exposure Controls

No additional information available

SECTION 10: Stability and reactivity

10.1 Reactivity

Contact with reactive metals (e.g. aluminum) may result in the generation of hydrogen gas.

10.2 Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions

Safety Data Sheet

Corrosive in contact with metals. Contact with metallic substances may release flammable hydrogen gas. Contact with strong acids can create excess heat and cause spattering.

10.4 Conditions to avoid

None known

10.5 Incompatible Materials

Avoid contact with: zinc, copper, nickel, aluminum, oxidizers, strong acids, light metals, copper alloys, amphoteric metals, halogenated materials, and prolonged contact with alkali sensitive metals or alloys

10.6 Hazardous decomposition products

Thermal decomposition can result in: sodium oxides, carbon oxides, and nitrogen oxides

SECTION 11: Toxicological information 11.1 Information on toxicological effects Oral LD50: 1248 mg/kg (rat) Calculated Dermal LD50: > 2000 mg/kg (rabbit) Calculated Inhalation LD50: > 5 mg/l (Dust/mist (Rat)) Calculated Skin Corrosion/irritation Causes severe skin burns and eye damage Serious eye damage/irritation Causes severe skin burns and eye damage Respiratory or skin sensitization Not Classified Germ cell mutagenicity Not Classified Not Classified Carcinogenicity Reproductive toxicity Not Classified Specific organ toxicity single exposure Single exposure can result in damage to: respiratory system, eyes, and mucous membranes Specific organ toxicity repeated exposure Not Classified Aspiration hazard Not Classified Symptoms/injuries after inhalation See Section 4 Symptoms/injuries after skin contact See Section 4 Symptoms/injuries after eye contact See Section 4 Symptoms/injuries after ingestion See Section 4 Chronic symptoms Not Classified

SECTION 12: Ecological information

12.1 Toxicity

No Data	
12.2 Persistence and degradability	1
No Data	
12.3 Bioaccumlative potential	
No Data	
12.4 Mobility in soil	
No Data	
12.5 Other adverse effect	
No Data	
SECTION 13: Disposal Con	siderations
13.1 Waste Treatment methods	
Waste treatment methods	Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without NPDES permit.
Waste disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released to the environment.

SECTION 14: Transportation information

Safety Data Sheet

14.1 UN number, proper shipping name, class and packaging groups.

Domestic Ground Non-Bulk Shipments

UN1824, SODIUM HYDROXIDE SOLUTION, 8, II

14.2 Additional information

Not available

SECTION 15: Regulatory Information

15.1 Federal regulations

TSCA Inventory: The components of this product are listed.

SARA 311/312 Hazard category (40 CFR 370.2): Acute and chronic health hazard.

SARA 313 Toxic Release Reporting (40CFR Part 372): No listed substance known over 1.0% or over 0.1% that are carcinogenic.

SARA 302 EHS Emergency Planning (40CFR Part 355): No listed substance known over 1.0% or over 0.1% that are carcinogenic.

SARA 304 EHS Emergency Planning (40CFR Part 355): No listed substance known over 1.0% or over 0.1% that are carcinogenic.

CERCLA Section 102-103 HS Released Reporting (40 CFR part 302-102a): Sodium Hydroxide, CAS# 1310-73-2, RQ 1,000 lbs.

15.2.1 International regulations

No Data

15.2.2 National regulations

No Data

15.3 State Regulations

California Prop. 65

Approximate quantities by weight

• Nitrilotriacetate, trisodium salt/ cancer/ CAS# 5064-31-3/ Trace

New Jersey Right to Know

Approximate quantities by weight

• SODIUM HYDROXIDE/ CAS# 1310-73-2/ 15-25% by wt.

SECTION 16: Other Information

Other information	None
NFPA	
NFPA Health Hazard	3
NFPA Fire Hazard	0
NFPA Reactivity	1
HMIS	
Health	3
Flammability	0
Physical	1
Personal Protection	Х

The information contained herein has been compiled from sources believed to be reliable and is accurate to the best of our knowledge at this date. It is provided without warranty, expressed or implied, as to the results of use of this information or to the product to which it relates. Recipient assumes all responsibility for the use of this information and the use, storage, or disposal of the product, including any resultant personal injury or property damage.