

**SAFETY DATA SHEET**

Alkali Boost Solution

 Revision Date 29<sup>th</sup> June 2023

**1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING**

<b>Product Name</b>	Alkali Boost Solution
<b>Synonyms, Trade Name</b>	Alkali Boost Solution
<b>Application</b>	<b>Laundry</b>

**Supplier**


Innovation Chemicals,  
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SDS No. 1044

**2. HAZARDS IDENTIFICATION**

C; R35	
<b>Classification</b>	Physical: Not classified. Health: H314 Causes severe burns and eye damage. Environmental Not classified. .
<b>Labelling</b>	
<b>Signal Word</b>	Danger
<b>Hazard Statements</b>	H314 Causes severe skin and eye damage. H290 May be corrosive to metals.
<b>Precautionary Statements</b>	P260 – Do not breathe dust / fume / gas / vapours / spray. P280 – Wear protective gloves / protective clothing / eye protection / face protection P303+P361+P353 – IF ON SKIN: (or hair): Remove / take off immediately all contaminated clothing. Rinse skin with water / shower. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 – Immediately call a POISON CENTRE or doctor / physician

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance name: Sodium Hydroxide Solution	Concentration: 5-10%	
CAS-No.:1310-73-2	EC-No.: 215-185-5	Index-No: 011-002-00-6
REACH Registration Number: 01-2119457892-27		

Substance name	Hazard class	Hazard category	Route of exposure	H Phrase
Sodium Hydroxide	Skin corrosion	Category 1A		H314
	Corrosive to metals	Category 1		H290

Substance Name	Classification	Hazard category	R- Phrase
Sodium Hydroxide	C	Corrosive	R35

## 4. FIRST-AID MEASURES

Description of First aid measures	
<b>If inhaled</b>	Move to fresh air. Oxygen or artificial respiration if needed. Victim to lie down in the recovery position. Cover and keep warm. Call physician
<b>In case of eye contact</b>	Rinse immediately with plenty of water, also under the eye lids, for at least 15 minutes. In case of difficulty of opening the lids, administer an analgesic eye wash (oxybuprocaine). Call physician or poison control centre immediately. Take victim immediately to hospital.
<b>In case of skin contact</b>	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water. Keep warm and in a quiet place. Call physician or poison control centre immediately. Wash contaminated clothing before re-use.
<b>If swallowed</b>	Call physician or poison control centre immediately. Take victim immediately to hospital. If swallowed rinse mouth with water (only if the person is conscious). DO NOT induce vomiting. Artificial respiration and / or oxygen may be necessary.
Most important symptoms and effects, both acute and delayed	
<b>Inhalation</b>	Corrosive to respiratory system. Symptoms: Breathing difficulties, cough, chemical pneumonitis, pulmonary edema. Repeated or prolonged exposure: Risk of sore throat, nose bleeds, chronic bronchitis.
<b>Skin contact</b>	Causes severe burns. Symptoms: Redness, swelling tissue, burn
<b>Eye contact</b>	Causes severe burns. Small amount of splashes into eyes can cause irreversible tissue damage and blindness. Symptoms: Redness, lachrymation, swelling of tissue, burn
<b>Ingestion</b>	If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach. Symptoms: Nausea, abdominal pain, bloody vomiting, diarrhea, suffocation, cough, severe shortness of breath
Indication of any immediate medical attention and special treatment needed	
No data available	

## 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Unsuitable extinguishing media</b>	None
<b>Special hazard arising from substance or mixture</b>	The product is not flammable. Not combustible. Hazardous decomposition products formed under fire conditions. Gives off hydrogen by reaction with metals.
<b>Advice to fire-fighters</b>	In the event of fire, use self contained breathing apparatus and full protective clothing, wear chemical resistant over suit, cool containers / tanks with water spray

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, protective equipment and emergency procedures

<b>Advice for non-emergency personnel</b>	Prevent further leakage or spillage if safe to do so, keep away from incompatible products
<b>Advice for emergency responders</b>	Evacuate personal to safe area. Keep people away from and upwind of spill / leak. Ventilate the area
<b>Environmental precautions</b>	Should not be released into the environment. Do not flush into surface water or sanitary sewer system. If product contaminates rivers and lakes or drains inform respective authorities
<b>Methods and materials for containment and clean up</b>	Dam up. Soak up with inert absorbent material. Prevent product from entering drains. Keep properly labeled containers for disposal
<b>Reference to other sections</b>	Refer to protective measures listed in sections 7 and 8

## 7. HANDLING AND STORAGE

<b>Precautions for safe handling</b>	Used in closed system, use only in well ventilated areas, keep away from incompatible products.
<b>Conditions for storage</b>	Store in original containers, keep in a ventilated place, keep in properly labelled containers, keep containers closed, Keep in banded area, keep away from incompatible products, regularly check the condition of containers, minimum storage temperature:25°C
<b>Packaging material</b>	Suitable material: stainless steel. Unsuitable material: no data

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	STD	TWA – 8 Hrs	STEL – 15 Min	Notes
Sodium Hydroxide	WEL		2mg/m3	EH40

WEL= Workplace Exposure Limit

Protective Equipment



<b>Appropriate engineering controls</b>	Ensure adequate ventilation; apply technical measures to comply with the occupational exposure limits.
<b>Respiratory protection</b>	In the case of dust or aerosol formation use respirator with an approved filter. Recommended filter type P2
<b>Hand Protection</b>	Protective gloves – impervious chemical resistant, suitable material: PVC, Neoprene, Natural Rubber, butyl-rubber. Unsuitable material: Leather. Take note of the information given by the producer concerning permeability and break through time, and of special workplace conditions (mechanical strain, duration of contact)
<b>Eye Protection</b>	Chemical resistant goggles must be worn. If splashes are likely to occur, wear: Tightly fitting safety goggles, face-shield.
<b>Skin and body protection</b>	Wear suitable protective clothing, if splashes are likely to occur, wear: Rubber or plastic boots, rubber apron
<b>Hygiene Measures</b>	Ensure that eyewash stations and safety showers are close to the work location. Take off contaminated clothing and shoes immediately. Handle in accordance with good industrial hygiene and safety practice
<b>Environmental exposure controls</b>	Dispose of rinse water in accordance with local and national regulations

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Liquid		
<b>Colour</b>	Colourless		
<b>Odour</b>	Low odour		
<b>Solubility</b>	Soluble in water	<b>Relative density</b>	1.33 – 1.53
<b>Melting / Freezing point</b>	From 0 – 22 °C	<b>Boiling Point / Range</b>	117 – 147 °C
<b>pH value</b>	13.5-14	<b>Vapour pressure</b>	<13.3hPa, @ 20°C
<b>Relative Density</b>	1.05-1.55	<b>Viscosity</b>	12 – 120 mPa.s @ 20°C

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Potential for exothermic hazard, may be corrosive to metals
<b>Chemical Stability</b>	Stable under recommended storage conditions
<b>Possibility of hazardous reactions</b>	Reacts violently with water, when in its solid state. Gives off hydrogen by reaction with metals. Exothermic reaction with strong acids.
<b>Conditions to avoid</b>	Keep away from direct sunlight. To avoid thermo decomposition, do not overheat. Exposure to moisture. Freezing
<b>Incompatible materials</b>	Metals. Oxidizing agents. Acids. Aluminum. Other light metals and their alloys
<b>Hazardous decomposition products</b>	Hydrogen

## 11. TOXICOLOGICAL INFORMATION

<b>Skin corrosion / irritation</b>	Corrosive
<b>Serious eye damage / eye irritation</b>	Corrosive
<b>Respiratory or skin sensitization</b>	No observed effects
<b>Mutagenicity</b>	Animal testing did not show any mutagenic effects. In vitro tests did not show mutagenic effects
<b>Carcinogenicity</b>	No data available


## 12. ECOLOGICAL INFORMATION

<b>Toxicity</b>	Fishes, various species, LC50, 96h, 35 – 189 mg/l (sodium hydroxide) Crustaceans, Ceriodaphnia sp., EC50, 48h, 40.4 mg/l (sodium hydroxide)
<b>Persistence and degradability</b>	<b>A biotic degradation</b> <i>Air</i> result: neutralization by natural alkalinity. <i>Water</i> Result: ionization / neutralization Conditions : pH soil Results ionization / neutralization
<b>Bio accumulative potential</b>	Not relevant
<b>Mobility</b>	<u>Water, Soil / sediments</u> . Considerable solubility and mobility. <u>Soil / Sediments</u> mobile, soluble, ionization / neutralization <u>Air</u> , Chemical degradation
<b>PBT and vPvB assessment</b>	This mixture contains no substance considered to be very persistent or very bio accumulating (vPvB). (Sodium Hydroxide) This mixture contains no substance considered to be persistent nor toxic (PBT). (Sodium Hydroxide)
<b>Other adverse effects</b>	No data available

## 13. DISPOSAL CONSIDERATIONS

<b>Waste disposal methods</b>	Dilute with plenty of water. Solutions with a high pH – value must be neutralised before discharged. Neutralise with acid & in accordance with local and national regulations
<b>Contaminated packaging</b>	Where possible recycling is preferred to disposal or incineration. Clean containers with water. Dispose of as unused product in accordance with local and national regulations.

## 14. TRANSPORT INFORMATION

			
<b>Proper Shipping name</b>	Sodium Hydroxide Solution		
<b>UN No. Road</b>	1824	<b>UN No. Sea</b>	1824
<b>ADR Class No.</b>	8	<b>IMDG Class</b>	8
<b>ADR Class</b>	Class 8: Corrosive	<b>IMDG Pack Group</b>	II
<b>ADR Pack Group</b>	II	<b>EMS</b>	F-A, S-B
<b>Tunnel Restriction</b>	(E)	<b>UN No. Air</b>	1824

Hazard No. (ADR)	58	Air Class	8
ADR Label No.	8	Air Sub Class	8
Hazchem code	2P	Air Pack Group	II

## 15. REGULATORY INFORMATION

<b>Contains</b>	Sodium Hydroxide
<b>Risk Phrases</b>	R35 – Causes severe burns
<b>Hazard Statements</b>	H314 Causes severe skin and eye damage. H290 May be corrosive to metals.
<b>Safety Phrases</b>	S1/2 – Keep locked up and out of reach of children. S24/25 – Avoid contact with eyes and skin. S26 – In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 – Wear suitable protective clothing, gloves and eye / face protection. S45 – In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible). S60 – This material and its container must be disposed of as hazardous waste.
<b>Precautionary Statements</b>	P264 – Wash..... thoroughly after handling. P280 – Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 – If on skin: wash with soap and water. P321 – Specific treatment (see P332+P313 – If irritation occurs: Get medical advice/ attention P362 – Take off contaminated clothing and wash before re-use P305+P351+P338 – If in eyes: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing P337+P313 – Get medical advice / attention
<b>Applicable Laws or Regulations</b>	Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 <sup>th</sup> December 2006 concerning the Regulation, Evaluation, Authorisation and Restriction of Chemicals (REACH), as amended. Directive 1999/45/EC of the European parliament and the council of 31 <sup>st</sup> May 1999 concerning the approximation of the law, regulations and administrative provisions of the member states relating to the classification, packaging & labelling of dangerous preparations, as amended. Regulation (EC) No 1272/2008 of the European parliament and the council of 16 <sup>th</sup> December 2008 on classification, packaging and labelling of substances and mixtures as amended. Council directive 98/24/EC of 7 April 1998 on the protection of the health & safety of workers from the risk related to chemical agents at work, as amended. Commission directive 2003-39-EC of the European parliament and of the council of 19 <sup>th</sup> November 2003 on waste. The list of wastes (Wales) Regulation 2005. 2005 Welsh statutory Instrument (WSI), number w.148 (1820), 14 <sup>th</sup> July 2005 The list of wastes (England) Regulation 2005. 2005 Statutory Instrument (SI), number 895, 6 <sup>th</sup> April 2005, as amended. EH40/2005. Workplace Exposure Limits, as amended through 1, 10, 2007 (WELs) Published by the Health and safety Executive (HSE). Issued under the control of Substances Hazardous to Health regulations – as amended.
<b>Chemical Safety Assessment</b>	A chemical safety assessment has been carried out for this substance See Exposure scenario
<b>Approved Code of Practice</b>	Safety data sheets for substances and preparation. Classification and labeling of substances and Preparations Dangerous for supply

## 16. OTHER INFORMATION

<b>REV. No. / REPL. SDS</b>	
<b>Generated</b>	29 <sup>th</sup> June 2023
<b>SDS No.</b>	1044
<b>Safety Data Sheet Status</b>	
<b>Approved.</b>	
<b>Signature</b>	
<b>Full text of H-Statements referred to under section 2 and 3</b>	H290 – May be corrosive to metals H314 – Causes severe skin burns and eye damage
<b>Full text of R – Statements referred to under section 2 and 3</b>	R35 – Causes severe burns

<b>Notes</b>	This information relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process. Such information is to the best of the company's knowledge and belief, accurate and reliable as of date indicated. However, no warranty, guarantee or representation is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.
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