

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product identification

Product name : ALKALI BOOSTER FOR LAUNDRY ALKATOM

Other means of identification

Product type : Liquid

Relevant identified uses

Recommended use : Application for Commercial Laundry

Restrictions on use : All other uses than those indicated on the product label and technical data sheet.

Details of the supplier of the safety data sheet

Supplier / Manufacturer : Kempro Services
6068 boul. Métropolitain Est, Suite 100, St-Léonard, Québec. H1S 1A9
Tel : 1-800-299-0548

E-mail : info@kemproservices.com

Emergency number

Emergency telephone number : Poison Control Centre : 1-800-463-5060
(with hours of operation) CANUTEC : +1-613-996-6666 or *666 (cellphone)(24/7)

SECTION 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

SKIN CORROSION - Category 1B

EYE DAMAGE - Category 1

GHS Label Elements

Hazard(s) pictograms :  GHS05

Signal word : Danger

Hazard statements : **H314** - Causes severe skin burns and eye damage.

Precautionary statements

- Prevention : **P280** - Wear protective gloves/protective clothing/eye protection/face protection.
- Response : **P264** - Wash thoroughly after handling.
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
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
- Storage : **P310** - Immediately call a POISON CENTER or doctor/physician.
- Disposal : **Not applicable**
P501 - Dispose of contents and container in accordance with local, regional and national regulations.

Other known hazards

Not additional information available

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance/mixture

Substances : Mixture

Other means of identification : Aqueous solution mainly composed by the following ingredients

CAS number /other identifiers/ Mixtures

CAS number : *Not applicable*

Ingredient name	% (p/p)	CAS number
<i>Sodium hydroxide</i>	<i>15.0 - 40.0</i>	<i>1310-73-2</i>

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST-AID MEASURES

Description of necessary first aid measures

- Eye contact** : *Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes.*
- Inhalation** : *Get medical attention immediately. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.*
- Skin contact** : *Get medical attention immediately. Flush contaminated skin with plenty of water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 15 minutes.*
- Ingestion** : *Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.*

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : *Causes serious eye damage.*
- Inhalation** : *Inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.*
- Skin contact** : *Causes severe burns.*
- Ingestion** : *May cause burns to mouth, throat and stomach.*

Over-exposure signs/symptoms

- Eye contact** : *Adverse symptoms may include the following: pain, watering, redness*
- Inhalation** : *No known significant effects or critical hazards.*
- Skin contact** : *Adverse symptoms may include the following: pain or irritation, redness, blistering may occur*
- Ingestion** : *Adverse symptoms may include the following: Stomach pains*

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : *Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.*
- Specific treatments** : *No specific treatment.*
- Protection of first-aiders** : *No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person*

providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (section 11)

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable extinguishing media** : Carbon dioxide (CO₂), extinguishing powder, water spray or alcohol resistant foam.
Unsuitable extinguishing media : None known

Specific hazards arising from the chemical

- Fire hazard** : In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products : Decomposition products may include the following materials: carbon dioxide, carbon monoxide and metal oxide/oxides

Special protective equipment and precautions for fire-fighters

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any person risk or without suitable training.
Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Methods and materials for containment and cleaning up

- Methods for containment** : Stop leak if without risk. Move container from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container.
Methods for cleaning up : No special collection methods required. Dispose of in accordance with all national and local regulations.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible

incompatibilities *materials (see Section 10) and food and drink. Store locked up. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.*

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Occupational exposure limits

Hazardous ingredients	Exposure limit values
Sodium Hydroxide	CA Quebec Provincial (Canada). STEL : 2mg/m ³

No other important information available.

Individual protection measures

- General protection and hygiene measures** : *Wash hands, forearms and face thoroughly after handling chemical products before eating, smoking and using lavatory and at the end of the working period. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.*
- Eye/face protection** : *Wear eye protection against chemical splashes.*
- Hands protection** : *Wear chemical-resistant, impervious gloves.*
- Skin & body protection** : *Wear appropriate protective clothing to prevent skin contact.*
- Respiratory Protection** : *Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate.*

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

Appearance

- Physical state** : *Liquid*
- Colour** : *Colorless*
- Odour** : *Characteristic*
- Odor threshold** : *Not available.*
- pH** : *>13.0*
- Melting point** : *Not available.*
- Freezing point** : *Not available.*
- Boiling point** : *100°C*
- Flash point** : *Not available.*
- Evaporation rate** : *Not available.*
- Flammability (solid, gaseous):** : *Not applicable.*
- Lower and upper explosive (flammable) limits** : *Not available.*
- Vapor pressure** : *Not available.*
- Vapor density** : *Not available.*
- Relative density (g/ml)** : *1.255-1.285*
- Solubility** : *Complete in water*
- Partition coefficient: noctanol/water** : *Not available.*
- Auto-ignition temperature** : *Not available.*
- Decomposition temperature** : *Not available.*
- Viscosity** : *Not available.*

SECTION 10. STABILITY ET REACTIVITY

Reactivity

No specific test data related to reactivity available for this product or its ingredients.

Chemical Stability

The product is stable.

Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid

There is no data available

Incompatible materials

Reactive or incompatible with the following materials: acids.

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity

There is no data available.

Irritation/Corrosion

Product/ingredient name	Result		Species	Exposure
Sodium hydroxide	Dermal	LD50	Rabbit	1350mg/kg
	Oral	LD50	Rat	>140mg/kg

Sensibilization

There is no data available.

Mutagenicity

There is no data available.

Cancerogenicity

Classification

Product/ingredient name	OSHA	CIRC	NTP	ACGIH	EPA	NIOSH
Sodium hydroxide	-	-	-	-	-	-
Potassium hydroxide	-	-	-	-	-	-

Reproductive toxicity

There is no data available.

Teratogenicity

There is no data available.

Specific target organ toxicity (single exposure)

There is no data available.

Specific target organ toxicity (repeated exposure)

There is no data available.

Aspiration hazard

There is no data available.

Information on the likely routes of exposure : *Dermal contact. Eye contact. Inhalation. Ingestion.*

Symptomes related to the physical, chemical and toxicological characteristics

- Eye contact** : *Adverse symptoms may include the following:
Pain, watering, redness*
- Inhalation** : *No known significant effects or critical hazards.*
- Skin contact** : *Adverse symptoms may include the following:
pain or irritation, redness, blistering may occur*
- Ingestion** : *Adverse symptoms may include the following:
stomach pains*

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

- Potential immediate effects** : *No known significant effects or critical hazards.*
- Potential delayed effects** : *No known significant effects or critical hazards.*

Long term exposure

- Potential immediate effects** : *No known significant effects or critical hazards.*
- Potential delayed effects** : *No known significant effects or critical hazards.*

Potential chronic health effects

- General** : *No known significant effects or critical hazards.*
- Carcinogenicity** : *No known significant effects or critical hazards.*
- Mutagenicity** : *No known significant effects or critical hazards.*
- Teratogenicity** : *No known significant effects or critical hazards.*
- Developmental effects** : *No known significant effects or critical hazards.*
- Fertility effects** : *No known significant effects or critical hazards.*

Numerical measures of toxicity

Acute toxicity estimates

There is no data available.

SECTION 12. ÉCOLOGICAL INFORMATION

Toxicity

Product/ingredient name	Result	Species	Exposure
Sodium hydroxide	Acute CL50 100ppm (Marine water)	Shrimp- Crustaceans	48 hours

Persistence and degradability

There is no data available.

Bioaccumulative potential

There is no data available.

Mobility in soil

- Soil/water partition coefficient (KOC)** : *There is no data available*

Other adverse effects

No known significant effects or critical hazards.




SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

- Waste treatment methods** : *Dispose of contents must be made according to local, state or national legislation. Do not allow to get into surface water, drains and ground water.*
- Container disposal:** : *Only empty containers could be recycled.*

SECTION 14. TRANSPORT INFORMATION

	TDG Classification	IMDG	IATA
UN number	UN1824	UN1824	UN1824
UN proper shipping name	Sodium Hydroxide Solution	Sodium Hydroxide Solution	Sodium Hydroxide Solution
Transport	8	8	8

hazard class(es)			
Packing group	III	III	III
Environmental hazards	Yes	Yes	Yes
Additional information	Remarks: Limited quantity in 5L or less	-	-

Special precautions for user **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15. REGULATORY INFORMATION

Listes canadiennes

- Canadian NPRI : None of the components are listed.
- CEPA Toxic substances (Canadian Environmental Protection Act) : None of the components are listed.
- Canada inventory : All components are listed or exempted.

SECTION 16. OTHER INFORMATION

History

- Date of issue : 31/07/2018
- Version : 1
- Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations
HPR = Hazardous Products Regulations

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