SAFETY DATA SHEET



LIQUID ALKALINE BOOSTER AND WATER CONDITIONER

Section 1. Chemical product and company identification

Product name : LIQUID ALKALINE BOOSTER AND WATER CONDITIONER

Recommended use and

restrictions

: Water-conditioning agent.

Use only for the purpose on the product label.

Product dilution information: Up to 0.14 oz/gal or 1.1 mL/L in water

Supplier's information: PureForce

370 Wabasha Street North

St. Paul, MN 55102 1-866-444-7450

Code : 953224-07

Date of issue : 10 May 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026

Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Hazards identification

Product AS SOLD

GHS Classification : CORROSIVE TO METALS - Category 1

SKIN CORROSION/IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION -

Category 1

GHS label elements

Hazard statements

Signal word : Danger

Symbol

: May be corrosive to metals.

Causes severe skin burns and eye damage.

Precautionary statements

Prevention: Wear protective gloves. Wear eye or face

protection. Wear protective clothing. Keep only in original container. Wash hands thoroughly

after handling.

Response : Absorb spillage to prevent material damage. IF

INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a

POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash

contaminated clothing before reuse.

Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

Product AT USE DILUTION

Not classified.

No signal word.

No known significant effects or critical

hazards.

Wash thoroughly after handling.

Get medical attention if symptoms appear.

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Section 2. Hazards identification

lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER

or physician.

Storage : Store in corrosive resistant container with a

resistant inner liner.

Disposal : See section 13 for waste disposal information.

Other hazards : None known.

No other specific measures identified.

See section 13 for waste disposal

information.

None known.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Product AS SOLD

Hazardous ingredients Concentration Range (%) CAS number

 SODIUM HYDROXIDE
 14
 1310-73-2

 TETRASODIUM EDTA
 5 - 20
 64-02-8

Product AT USE DILUTION

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

Section 4. First aid measures

Product AS SOLD

Eye contact : Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing. Get medical attention

immediately.

Skin contact: Take off immediately all contaminated clothing.

Rinse skin with water or shower. Get medical attention immediately. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation : Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention immediately.

Ingestion: Get medical attention immediately. Rinse mouth.

Do not induce vomiting.

Product AT USE DILUTION

No known effect after eye contact. Rinse with

water for a few minutes.

No known effect after skin contact. Rinse

with water for a few minutes.

No special measures required. Treat

symptomatically.

Get medical attention if symptoms occur.

Protection of first-

aiders

: No action shall be taken involving any personal risk or without suitable training. 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.

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The

exposed person may need to be kept under medical surveillance for 48 hours.

See toxicological information (section 11)

Section 5. Fire-fighting measures

Product AS SOLD

Suitable fire extinguishing

media

: Use water spray, fog or foam.

Specific hazards arising

from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal

decomposition products

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Section 5. Fire-fighting measures

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides

Specific fire-fighting methods

: 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 personal 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

Section 6. Accidental release measures

Product AS SOLD

Personal precautions

: Initiate company's spill response procedures immediately. Keep people out of area. Put on appropriate personal protective equipment (see section 8). Do not touch or walk through spilled

material.

Environmental precautions

: Avoid contact of spilled material and runoff with soil and surface waterways.

Methods for cleaning up

: Follow company's spill procedures. Keep people away from spill. Put on appropriate personal protective equipment (see section 8). Absorb/ neutralize liquid material. Use a tool to scoop up solid or absorbed material and put into appropriate labeled container. Use a tool to scoop up solid or absorbed material and place into appropriate labeled waste container. Use a water rinse for final clean-up.

Product AT USE DILUTION

Use personal protective equipment as required.

Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.

Use a water rinse for final clean-up.

Section 7. Handling and storage

Product AS SOLD

Handling : Do not get in eyes or on skin or clothing. Do not

breathe vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.

Keep out of reach of children. Keep container tightly closed.

lightly closed.

Store between the following temperatures: 0 and 45°C

Keep out of reach of children.

Product AT USE DILUTION

Wash thoroughly after handling.

Section 8. Exposure controls/personal protection

Control parameters

Storage

Ingredient name	Exposure limits
SODIUM HYDROXIDE	ACGIH TLV (United States, 3/2012). C: 2 mg/m³ OSHA PEL (United States, 6/2010). TWA: 2 mg/m³ 8 hours. NIOSH REL (United States, 6/2009). CEIL: 2 mg/m³

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Section 8. Exposure controls/personal protection

Product AS SOLD

Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash

Personal protection

Eye protection

: Use chemical splash goggles. For continued or severe exposure wear a face shield over the

goggles.

Hand protection

: Use chemical-resistant, impervious gloves.

Skin protection

: Use synthetic apron, other protective equipment as necessary to prevent skin contact.

Respiratory protection

: A respirator is not needed under normal and intended conditions of product use.

Hygiene measures

hazard.

No protective equipment is needed under normal use conditions.

Good general ventilation should be sufficient

to control worker exposure to airborne

Product AT USE DILUTION

contaminants.

No protective equipment is needed under normal use conditions.

No protective equipment is needed under normal use conditions.

A respirator is not needed under normal and intended conditions of product use.

: Wash hands, forearms and face thoroughly after handling chemical products, before eating. smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Section 9. Physical and chemical properties

Product AS SOLD

Physical state : Liquid. Color : Colorless Odor : Odorless Hq : 14 (100%) Flash point $: > 100^{\circ}C$ Not available.

Explosion limits Flammability (solid,

gas)

Melting point : Not available. **Boiling point** : Not available. Evaporation rate : Not available.

(butyl acetate = 1)

: Not available. Vapor pressure Vapor density : Not available. Relative density : 1.225 (Water = 1)Solubility : Not available. Partition coefficient: : Not available.

n-octanol/water

Auto-ignition temperature

: Not available.

: Not available.

Decomposition

: Not available.

temperature

Odor threshold : Not available. Viscosity : Not available.

Product AT USE DILUTION

Liquid. Colorless Odorless 11.01 to 11.1 > 100°C

Section 10. Stability and reactivity

Product AS SOLD

Stability: The product is stable.

Possibility of hazardous

reactions

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

Conditions to avoid : No specific data.

Materials to avoid : Not available.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

Section 11. Toxicological information

Route of exposure : Skin contact, Eye contact, Inhalation, Ingestion

Product AS SOLD

Symptoms

Eye contact: Adverse symptoms may include the following:

pain watering redness

Skin contact: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

Inhalation : Adverse symptoms may include the following:

coughing

Respiratory tract irritation

Ingestion: Adverse symptoms may include the following:

stomach pains

Acute toxicity

Eye contact : Causes serious eye damage.

Skin contact: Causes severe burns.

Inhalation: May cause respiratory irritation.

Ingestion: May cause burns to mouth, throat and stomach.

Product AT USE DILUTION

No specific data.

No specific data.

No specific data.

No specific data.

No known significant effects or critical

hazards.

Toxicity data

Product/ingredient name

acetic acid, (ethylenedinitrilo)tetra-, LD50 Oral Rat 1700 mg/kg

tetrasodium salt

Chronic toxicity

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.

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Section 12. Ecological information

Product AS SOLD

Ecotoxicity : This material is harmful to aquatic life.

Aquatic and terrestrial toxicity

Product/ingredient nameResultSpeciesExposuresodium hydroxideAcute EC50 40 mg/lDaphnia48 hoursacetic acid, (ethylenedinitrilo)tetra-, tetrasodiumAcute LC50 121 mg/lFish96 hours

salt

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Product AS SOLD

Disposal methods : Avoid disposal. Attempt to use product

completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations.

RCRA classification: Unused product is D002 (Corrosive)

Product AT USE DILUTION

Diluted product can be flushed to sanitary sewer. Discard empty container in trash.

Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

<u>DOT</u>

DOT Classification UN1824

DOT Proper shipping nameSodium hydroxide solution

Class 8
Packing group II

IMO/IMDG

IMO/IMDG Classification UN1824

IMO/IMDG Proper shipping name SODIUM HYDROXIDE SOLUTION

Class 8
Packing group II

For transport in bulk, see shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

Section 15. Regulatory information

Product AS SOLD

U.S. Federal regulations

TSCA 8(b) inventory : All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No listed substance SARA 302/304 emergency planning and notification: No listed substance

SARA 313 Product name CAS number Concentration

Form R - Reporting

requirements

: No listed substance

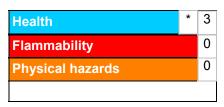
<u>California Prop. 65</u> : No listed substance

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Section 16. Other information

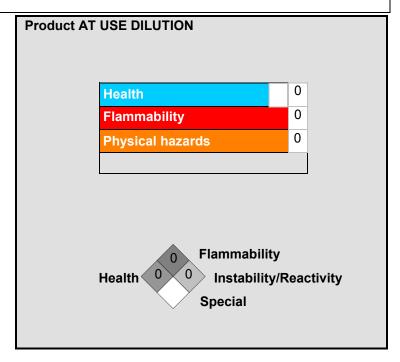
Product AS SOLD

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



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





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Prepared by : Regulatory Affairs

1-800-352-5326

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.