SAFETY DATA SHEET

LAUNDRI BREAK

Section 1. Chemical product and company identification

Product name : LAUNDRI BREAK
Recommended use and restrictions : Laundry product

Use only for the purpose on the product label.

Product dilution information : Up to 3 oz/10 gal or 2.4 mL/L of water

Supplier's information : Ecolab Inc. Institutional Division
370 N. Wabasha Street
St. Paul, MN 55102
1-800-352-5326

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Hazards identification

GHS Classification
Product AS SOLD
CORROSIVE TO METALS - Category 1
SKIN CORROSION/IRRITATION - Category 1
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
AQUATIC TOXICITY (ACUTE) - Category 3

Product AT USE DILUTION
SKIN CORROSION/IRRITATION - Category 1
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

GHS label elements
Signal word : Danger
Symbol : ☢️

Hazard statements : May be corrosive to metals. Causes severe skin burns and eye damage. Harmful to aquatic life.

Precautionary statements
Prevention : Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep only in original container. Avoid release to the environment. Do not breathe dust or mist. 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.

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.
Section 2. Hazards identification

Immediately call a POISON CENTER or physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact 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: Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

Section 3. Composition/information on ingredients

Substance/mixture: Mixture

<table>
<thead>
<tr>
<th>Hazardous ingredients</th>
<th>Concentration Range (%)</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>50</td>
<td>1310-73-2</td>
</tr>
<tr>
<td>SODIUM CARBONATE</td>
<td>20 - 50</td>
<td>497-19-8</td>
</tr>
</tbody>
</table>

Section 4. First aid measures

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.

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. If ventilation is inadequate, use respirator that will protect against dust/mist. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

Notes to physician: Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (section 11)
Section 5. Fire-fighting measures

Product AS SOLD
Suitable fire extinguishing media: Use dry chemical powder.
Specific hazards arising from the chemical: This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products: Decomposition products may include the following materials:
- carbon dioxide
- carbon monoxide
- 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 mode.

Section 6. Accidental release measures

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: If emergency personnel are not present, contain and collect small spillages with non-combustible absorbent material, e.g. sand, earth or other suitable material and place in a suitable container for disposal. Use a water rinse for final clean-up.

Section 7. Handling and storage

Handling: Do not get in eyes or on skin or clothing. Do not breathe dust. Use only with adequate ventilation. Wash thoroughly after handling.
Storage: Keep out of reach of children. Keep container tightly closed.
Store between the following temperatures: 0 and 50°C

Product AT USE DILUTION
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.
Avoid contact of spilled material and runoff with soil and surface waterways.
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
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.
Section 8. Exposure controls/personal protection

Control parameters

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

Appropriate engineering controls

Product AS SOLD

: 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 hazard.

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

: 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

<table>
<thead>
<tr>
<th>Physical state</th>
<th>Product AS SOLD</th>
<th>Product AT USE DILUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powder</td>
<td></td>
<td>Liquid.</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
<td>Odorless</td>
</tr>
<tr>
<td>pH</td>
<td>12 (1%)</td>
<td>11 to 12.2</td>
</tr>
<tr>
<td>Flash point</td>
<td>&gt; 100°C</td>
<td>&gt; 100°C</td>
</tr>
<tr>
<td>Explosion limits</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Melting point</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Evaporation rate (butyl acetate = 1)</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available.</td>
<td>Not available.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not applicable.</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>
Section 9. Physical and chemical properties

Solubility: Not available.
Partition coefficient: Not available.
n-octanol/water: Not available.
Auto-ignition temperature: Not available.
Decomposition temperature: Not available.
Odor threshold: Not available.
Viscosity: Not available.

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: Highly reactive or incompatible with the following materials: acids.
Slightly reactive or incompatible with the following materials: metals.
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, Ingestion

<table>
<thead>
<tr>
<th>Route of exposure</th>
<th>Product AS SOLD</th>
<th>Product AT USE DILUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin contact</td>
<td>Adverse symptoms may include the following: pain</td>
<td>Adverse symptoms may include the following: pain</td>
</tr>
<tr>
<td>Eye contact</td>
<td>watering</td>
<td>watering</td>
</tr>
<tr>
<td></td>
<td>redness</td>
<td>redness</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Adverse symptoms may include the following: pain or irritation</td>
<td>Adverse symptoms may include the following: pain or irritation</td>
</tr>
<tr>
<td></td>
<td>redness</td>
<td>redness</td>
</tr>
<tr>
<td></td>
<td>blistering may occur</td>
<td>blistering may occur</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Adverse symptoms may include the following: respiratory tract irritation</td>
<td>Adverse symptoms may include the following: coughing</td>
</tr>
<tr>
<td></td>
<td>coughing</td>
<td>Respiratory tract irritation</td>
</tr>
<tr>
<td>Ingestion</td>
<td>Adverse symptoms may include the following: stomach pains</td>
<td>Adverse symptoms may include the following: stomach pains</td>
</tr>
</tbody>
</table>

Acute toxicity

<table>
<thead>
<tr>
<th>Route of exposure</th>
<th>Product AS SOLD</th>
<th>Product AT USE DILUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>Causes serious eye damage.</td>
<td>Causes serious eye damage.</td>
</tr>
<tr>
<td>Skin contact</td>
<td>Causes severe burns.</td>
<td>Causes severe burns.</td>
</tr>
<tr>
<td>Inhalation</td>
<td>May cause respiratory irritation.</td>
<td>May cause respiratory irritation.</td>
</tr>
<tr>
<td>Ingestion</td>
<td>May cause burns to mouth, throat and stomach.</td>
<td>May cause burns to mouth, throat and stomach.</td>
</tr>
</tbody>
</table>

Toxicity data

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium carbonate</td>
<td>LC50 Inhalation Dusts and mists</td>
<td>Rat</td>
<td>1.15 mg/l</td>
</tr>
<tr>
<td></td>
<td>LD50 Dermal</td>
<td>Rabbit</td>
<td>&gt;2000 mg/kg</td>
</tr>
<tr>
<td></td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>2800 mg/kg</td>
</tr>
</tbody>
</table>
Section 11. Toxicological information

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.

Section 12. Ecological information

Ecotoxicity: This material is harmful to aquatic life.

Aquatic and terrestrial toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>sodium hydroxide</td>
<td>Acute EC50 40 mg/l</td>
<td>Daphnia</td>
<td>48 hours</td>
</tr>
<tr>
<td>sodium carbonate</td>
<td>Acute EC50 200 mg/l</td>
<td>Daphnia</td>
<td>48 hours</td>
</tr>
</tbody>
</table>

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

Section 13. Disposal considerations

Disposal methods

Product AS SOLD: 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.

Product AT USE DILUTION: 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.

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.

DOT

- DOT Classification: UN1823
- DOT Proper shipping name: Sodium hydroxide, solid, mixture
- Class: 8
- Packing group: II

IMO/IMDG

- IMO/IMDG Classification: UN1823
- IMO/IMDG Proper shipping name: SODIUM HYDROXIDE, SOLID, Mixture, Separate from acids.
- 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

<table>
<thead>
<tr>
<th>SARA 313</th>
<th>Product name</th>
<th>CAS number</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form R - Reporting requirements</td>
<td>: No listed substance</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

California Prop. 65 : No listed substance

Section 16. Other information

Product AS SOLD

Hazardous Material

Information System (U.S.A.)

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Physical hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Instability/Reactivity</th>
<th>Special</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>3</td>
<td>0</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Instability/Reactivity</th>
<th>Special</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Instability/Reactivity</th>
<th>Special</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Date of issue : 29 Mar 2013

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.