

**Safety Data Sheet: Sodium Break-Up**

**SECTION 1: Identification**

**Product identifier**

Product name Sodium Break-Up  
Product number 156500.1000

**Recommended use of the chemical and restrictions on use**  
Alkaline Laundry Additive.

**Supplier's details**

Name California Prison Industry Authority  
Address CSP-Los Angeles County  
44750 60th Street West  
Lancaster, CA 93536  
USA  
  
Telephone (661) 729-2000 Ext. #7930

**Emergency phone number(s)**

1 (800) 424-9300

**SECTION 2: Hazard identification**

**Classification of the substance or mixture**

**GHS classification in accordance with: OSHA (29 CFR 1910.1200)**

- Eye damage/irritation, Cat. 1
- Skin corrosion/irritation, Cat. 1A
- Corrosive to metals, Cat. 1

**GHS label elements, including precautionary statements**

**Pictogram**



**Signal word**

**Danger**

**Hazard statement(s)**

H290 May be corrosive to metals  
H314 Causes severe skin burns and eye damage

**Precautionary statement(s)**

P234 Keep only in original container.  
P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

## Safety Data Sheet

## Sodium Break-Up

P301+P330+P331  
P303+P361+P353

P304+P340  
P305+P351+P338

P310  
P363  
P390  
P405  
P501

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
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 doctor.  
Wash contaminated clothing before reuse.  
Absorb spillage to prevent material-damage.  
Store locked up.  
Dispose of contents/container in accordance with applicable regional, national and local laws and regulations.

### SECTION 3: Composition/information on ingredients

#### Mixtures

#### Components

##### 1. Sodium hydroxide

Concentration 30 - 60 %  
CAS no. 1310-73-2

#### Trade secret statement (OSHA 1910.1200(i))

Exact percentage (concentration) of composition has been withheld as a trade secret.

### SECTION 4: First-aid measures

#### Description of necessary first-aid measures

General advice	In case of accident or if you feel unwell, seek medical advice immediately (show the label or SDS where possible).
If inhaled	If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.  Acute and delayed symptoms and effects: May cause respiratory irritation. Signs/symptoms may include burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema.
In case of skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower for at least 15 minutes. Call a poison center or doctor if irritation develops or persists. Wash contaminated clothing before reuse.  Acute and delayed symptoms and effects: Causes severe skin burns. Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.
In case of eye contact	If in eyes: Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.  Acute and delayed symptoms and effects: Causes serious eye damage. Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

If swallowed

If swallowed: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Never give anything by mouth to an unconscious person.

Acute and delayed symptoms and effects: Causes burns to nose, mouth, throat, and digestive tract. Signs/symptoms may include severe mouth, throat and abdominal pain, nausea, vomiting, and diarrhea, blood in the feces and/or vomitus may also be seen.

Symptoms of Sodium hydroxide ingestion may include bleeding, vomiting, diarrhea, fall in blood pressure. Damage may appear days after exposure.

#### **Most important symptoms/effects, acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

Symptoms may not appear immediately. Perform endoscopy in all cases of suspected Sodium hydroxide ingestion. In cases of severe esophageal corrosion, the use of therapeutic doses of steroids should be considered. General supportive measures with continual monitoring of gas exchange, acid-base balance, electrolytes, and fluid intake are also required.

### **SECTION 5: Fire-fighting measures**

#### **Suitable extinguishing media**

Small Fire: Dry chemical, CO<sub>2</sub> or water spray.

Large Fire: Dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal; do not scatter the material.

#### **Specific hazards arising from the chemical**

No data available.

#### **Special protective actions for fire-fighters**

TOXIC; inhalation, ingestion or skin contact with material may cause severe injury or death. Contact with molten substance may cause severe burns to skin and eyes. Avoid any skin contact. Effects of contact or inhalation may be delayed. Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution. Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

#### **Further information**

Use water spray to cool unopened containers.

### **SECTION 6: Accidental release measures**

#### **Personal precautions, protective equipment and emergency procedures**

Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protection recommended in Section 8.

#### **Environmental precautions**

Prevent entry into waterways, sewers, basements or confined areas.

#### **Methods and materials for containment and cleaning up**

Stop leak if you can do it without risk. Sweep up and shovel into suitable containers for disposal.

**Reference to other sections**

For disposal see section 13.

**SECTION 7: Handling and storage****Precautions for safe handling**

Do not swallow. Do not breathe mist, vapors, or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. See Section 8 for information on Personal Protective Equipment.

**Conditions for safe storage, including any incompatibilities**

Store locked up. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

**Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

**SECTION 8: Exposure controls/personal protection****Control parameters****CAS: 1310-73-2**

Sodium hydroxide

ACGIH (USA): (C) 2 mg/m<sup>3</sup> TLV® inhalation; Cal/OSHA (USA): (C) 2 mg/m<sup>3</sup> PEL inhalation; NIOSH (USA): (C) 2 mg/m<sup>3</sup> REL inhalation; OSHA (USA): 2 mg/m<sup>3</sup> PEL inhalation

**Appropriate engineering controls**

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

**Individual protection measures, such as personal protective equipment (PPE)****Eye/face protection**

Wear chemical safety goggles and full face shield. Ensure that eyewash stations and safety showers are close to the workstation location. Use equipment for eye protection that meets the standards referenced by OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.

**Skin protection**

Wear protective gloves (rubber, chemical resistant). Consult manufacturer specifications for further information.

**Body protection**

Wear protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying respirator with particulate filter, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.

**Thermal hazards**

No data available.

**Environmental exposure controls**

Do not let product enter drains.

**SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties**

Appearance/form (physical state, color, etc.)	Clear liquid.
Odor	Colorless.
Odor threshold	No data available.
pH	14
Melting point/freezing point	No data available.
Initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Upper/lower flammability limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	1.476 (Water = 1)
Solubility(ies)	Soluble in water.
Partition coefficient: n-octanol/water	
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

**SECTION 10: Stability and reactivity****Reactivity**

Stable under recommended storage conditions.

**Chemical stability**

Stable under normal storage conditions.

**Possibility of hazardous reactions**

Sodium hydroxide reacts vigorously, violently or explosively with many organic and inorganic chemicals, such as strong acids, nitroaromatic and organohalogen compounds, glycols and organic peroxides. Sodium hydroxide produces flammable and explosive hydrogen gas if it reacts with sodium tetrahydroborate or metals such as aluminum, tin or zinc. Sodium hydroxide reacts violently with water generating significant heat, causing possible localized overheating and dangerously spattering corrosive sodium hydroxide.

**Conditions to avoid**

Contact with incompatible materials. Sources of ignition. Exposure to heat.

**Incompatible materials**

Acids. Metals. Halogenated organic solvents. Peroxides. Nitroaromatic compounds. Sodium tetrahydroborate.

**Hazardous decomposition products**

No data available.

**SECTION 11: Toxicological information****Information on toxicological effects****Acute toxicity**

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation. Ingestion.

Sodium hydroxide

LD50 Oral - No data available

LD50 Dermal - No data available

LC50 - No data available

Inhalation: May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

Ingestion: Harmful if swallowed. Causes burns to nose, mouth, throat, and digestive tract. Signs/symptoms may include severe mouth, throat and abdominal pain, nausea, vomiting, and diarrhea, blood in the feces and/or vomitus may also be seen.

**Skin corrosion/irritation**

Causes severe skin burns. Signs/symptoms may include localized redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

**Serious eye damage/irritation**

Causes serious eye damage. Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

**Respiratory or skin sensitization**

No data available.

**Germ cell mutagenicity**

No data available.

**Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

No data available.

**Summary of evaluation of the CMR properties**

No data available.

**STOT-single exposure**

No data available.

**STOT-repeated exposure**

No data available.

**Aspiration hazard**

No data available.

**SECTION 12: Ecological information****Toxicity**

No data available.

**Persistence and degradability**

No data available.

**Bioaccumulative potential**

No data available.

**Mobility in soil**

No data available.

**Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**Other adverse effects**

No data available.

**SECTION 13: Disposal considerations****Disposal of the product**

Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

**Disposal of contaminated packaging**

Dispose of as unused product.

**SECTION 14: Transport information**

UN Number	UN1824
UN Proper Shipping Name	Sodium hydroxide solution
Transport hazard class(es)	8
Packing group	II

**SECTION 15: Regulatory information****Safety, health and environmental regulations specific for the product in question****SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**

Acute Health Hazard

**Massachusetts Right To Know Components**

Chemical name: Sodium hydroxide

CAS number: 1310-73-2

**Pennsylvania Right To Know Components**

Chemical name: Sodium hydroxide  
 CAS number: 1310-73-2

**New Jersey Right To Know Components**

Common name: SODIUM HYDROXIDE  
 CAS number: 1310-73-2

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**California Cleaning Product Right to Know Act of 2017 (SB 258)**

Chemical Name	CAS Number	Function
Sodium hydroxide	1310-73-2	Degreasing and cleaning agent

**SECTION 16: Other information**

**Further information/disclaimer**

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall California Prison Industry Authority be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if California Prison Industry Authority has been advised of the possibility of such damages.