



# Safety Data Sheet

Better Chemistry. Better Business

**BN-500 BLEND**

**Revised:** 7/27/18

## 1 IDENTIFICATION

**Product Name:** BN-500 BLEND

**Product Code :**2281013

**Recommended use of the chemical and restrictions on use:**Metal finishing

### Hubbard-Hall Inc.

563 South Leonard Street

Waterbury, CT 06708

**Telephone:** 203-756-5521

**Fax number:** 203-756-9017

Emergency Phone Number

**CHEMTREC:** 1 (800) 424-9300

**International:** 1 (703) 527-3887

## 2 HAZARDS IDENTIFICATION



**Signal Word:** DANGER

**Hazard Category:** Corrosive to Metals Hazard Category 1

Acute Toxicity-Oral Hazard Category 4

Skin Corrosion/Irritation Hazard Category 1A

Eye Damage/Irritation Hazard Category 1

Acute Aquatic Toxicity-Category 3

**Hazard Statements:** May be corrosive to metals.

Harmful if swallowed.

Causes severe skin burns and eye damage.

Harmful to aquatic life

**Prevention:** Keep only in original container.

Wear protective gloves, chemical protective clothing, eye protective goggles and face shield for face protection.

Do not eat, drink or smoke when using this product.

Do not breath dusts or mists.

Wash skin thoroughly after handling.

Avoid releases to the environment

**Response:** If inhaled: Remove person to fresh air and keep comfortable for breathing. Call poison center/doctor if you feel unwell.

If swallowed: Rinse mouth. Do NOT induce vomiting.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash contaminated clothing before reuse.

If in eyes: Wash cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

Absorb spillage to prevent material damage.

Immediately call poison center or doctor and explain the type of exposure to the chemical(s) and provide the name of the chemical(s).

Specific treatment - refer to poison center or doctor for advice.

**Storage:** Store locked up.

Store in corrosive resistant high density polyethylene container.

**Disposal:** Dispose of contents/container in accordance with local, regional, national, or international regulations.

### 3 COMPOSITION INFORMATION

Chemical Name	Common Name And Synonyms	CAS No. and other Unique identifiers	Concentration %
Sodium Hydroxide	Caustic Soda	1310-73-2	Approx 46%
*Sodium Nitrate	-	7631-99-4	Approx 30%
Potassium Hydroxide	Potash	1310-58-3	Approx 24%

### 4 FIRST AID

#### After Inhalation:

Move to fresh air. If breathing is difficult, give oxygen. If breathing stops, provide artificial respiration. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one way valve or other proper respiratory device. Call a physician or poison control center immediately.

#### After Skin Contact:

Take off immediately all contaminated clothing. Wash off IMMEDIATELY with plenty of water for at least 15-20 minutes. Get medical attention immediately! Wash clothing separately before reuse. Destroy or thoroughly clean all contaminated shoes.

#### After Eye Contact:

Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Call a physician or poison control center immediately.

#### After Ingestion:

Call a physician or poison control center immediately. Do not induce vomiting. Immediately rinse mouth and drink plenty of water. If vomiting occurs, keep head low so that the stomach content doesn't get into the lungs. Never give anything by mouth to an unconscious person. Do not use mouth-to-mouth method if victim ingested the substance.

### Most Important Symptoms/Effects

#### Delayed:

Burning pain and severe corrosive skin damage. Permanent eye damage including blindness could result. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Shortness of breath.

#### Indication of immediate medical attention:

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Keep victim under observation.

#### Special Precautions / Procedures:

Emergency personnel should protect against secondary contamination.

### 5 FIRE FIGHTING MEASURES

<b>Suitable and Unsuitable extinguishing media:</b>	Water fog. Foam. Dry Chemical powder. Carbon Dioxide (CO2). Use extinguishing agent suitable for type of surrounding fire. Do not use solid water stream as it may scatter and spread fire. Do not use halogenated extinguishing agents.
<b>Specific hazards arising from the chemical:</b>	The product itself does not burn. May decompose upon heating to produce corrosive and/or toxic fumes. Contact with metal may release flammable hydrogen gas.
<b>Special protective equipment and precautions for firefighter</b>	Fire fighters should enter area only if they are protected from all contact with the material. Full protective clothing, including self-contained breathing apparatus, coat, pants, gloves, boots and bands around legs, arms, and waist, should be worn. No skin surfaces should be exposed.

**6 ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions, Protective Equipment, &amp; Emergency Proc</b>	Prevent spilled product from drains, sewers, waterways and soil.
<b>Methods and Materials for containment &amp; cleaning up:</b>	Wear appropriate chemical protection equipment such as gloves, face-shield, goggles and suitable body protection to prevent contamination of skin, eyes and personal clothing.  If trained in accordance 29 CFR 1910.120, leaks should be stopped. Spills should be contained and cleaned immediately. Persons performing clean up work should wear adequate personal protective equipment and clothing. Spills and releases should be reported, if required, to the appropriate local, state and federal regulatory agencies.

**7 HANDLING AND STORAGE**

<b>Precautions for safe handling:</b>	Use caution when combining with water. DO NOT add water to Caustic. ALWAYS add caustic to water while stirring to minimize heat generation. Do not get in eyes, skin or on clothing. Do not taste or swallow. Do not breath vapor or mist. Use only with adequate ventilation. Wear appropriate personal protective equipment. Transfer and storage systems should be compatible and corrosion resistant. Observe good industrial hygiene practices.
<b>Conditions for safe storage, inc any incompatibilities:</b>	Keep container tightly closed.  Store in cool dry place.  Store away from incompatible materials. ( See section 10).  Do not allow material to freeze.  Store in corrosive resistant container.

**8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

Name	Std.	TWA-8hrs	STEL - 15 min.
Sodium Hydroxide	ACGIH	2 mg/m3	
*sodium Nitrate	OSHA	15 mg/m3 total dust 5mg/m3 respirable dust	
Potassium Hydroxide	ACGIH	2 mg/m3	-

ACGIH - American Control of Governmental Hygenists  
OSHA - Occupational Safety and Health Administration

<b>Ventilation:</b>	Use local exhaust to keep personal exposures below the OSHA Permissible Exposure Limit (s) (PEL) or the ACGIH threshold Limit Values (TLV)Time Weight Average (TWA).
<b>Protective Gloves:</b>	Rubber gloves
<b>Eye Protection:</b>	Wear chemical safety goggles with face shield.

**Other Protective Equipment:** Wear chemical resistant apron.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Off white to tannish prills
<b>Odor:</b>	woody odor
<b>Odor Threshold:</b>	N/A
<b>PH:</b>	1% solution > 12
<b>Melting Point/Freezing Point:</b>	approx 530 °F
<b>Initial Boiling Point and Boiling Range:</b>	N/A
<b>Flash Point:</b>	N/A
<b>Evaporation Rate:</b>	N/A
<b>Flammability (solid, gas):</b>	N/A
<b>Upper/Lower flammability or explosive limits:</b>	N/A
<b>Vapor Pressure:</b>	N/A
<b>Vapor Density:</b>	N/A
<b>Relative Density:</b>	N/A
<b>Solubility (ies):</b>	Complete in water
<b>Partition Coefficient; n-octanol/water:</b>	N/A
<b>Auto-ignition Temperature:</b>	N/A
<b>Decomposition Temperature:</b>	N/A
<b>Viscosity:</b>	N/A

## 10 STABILITY AND REACTIVITY

<b>Reactivity:</b>	Contact with metal may release flammable hydrogen gas.
<b>Chemical Stability:</b>	Stable under normal conditions
<b>Possibility of Hazardous Reactions:</b>	Hazardous polymerization does not occur.
<b>Conditions to Avoid:</b>	Reacts violently with strong acids. This product may react with oxidizing agents. Do not mix with other chemicals. Corrosive to aluminum, tin, zinc, copper and most alloys in which they are present including brass and bronze. Corrosive to steels at elevated temperatures above 40 °C.
<b>Incompatible Materials:</b>	Avoid contact with aluminum, tin, zinc, halogenated solvents, and strong oxidizers and acids.
<b>Hazardous Decomposition Products:</b>	Contact with metal (aluminum, zinc, tin) and sodium tetrahydroborate liberates hydrogen gas.

## 11 TOXICOLOGICAL INFORMATION

<b>Oral Administration:</b>	Caustic 50% solution: LD50, Rat-300-500 mg/kg
<b>Oral Administration:</b>	Potassium Hydroxide--LD50-Oral-rat-333 mg/kg
<b>Dermal administration:</b>	Caustic 50% solution-LD50 Rabbit->2 g/kg
<b>Delayed effects:</b>	Severe irritation or burns to skin, eyes and respiratory system
<b>Immediate effects:</b>	Severe irritation or burns to skin, eyes and respiratory system
<b>Cancer Hazard:</b>	Not listed by IARC, NTP, OSHA, ACGIH
<b>Routes of Exposure</b>	Eyes, Skin, Inhalation, Ingestion

## 12 ECOLOGICAL INFORMATION

<b>Fish, Lepomis macrochirus,</b>	Caustic-99 mg/L, 48 hrs
<b>Bioaccumulation potential:</b>	Unlikely

**Water result:** Disperses in water.  
**Soil/Sediment Result:** Pronounced solubility and mobility

### 13 DISPOSAL CONSIDERATION

*Dispose of in accordance with local, state and federal regulations.*

### 14 TRANSPORT INFORMATION

**UN Number:** 3262  
**UN Proper Shipping Name:** CORROSIVE SOLID, BASIC , INORGANIC, N.O.S., (SODIUM HYDROXIDE, POTASSIUM HYDROXIDE),  
**Transport Hazard Class (es):** 8  
**Packing Group:** II  
**ERG:** 154

### 15 REGULATORY INFORMATION

**HMIS: Health: 3 Flammability: 0 Reactivity: 1**

**Cercla** 2000 lb RQ (Caustic 50%)

**Sara Hazard Classification** SARA 302 - Extremely Hazardous Substances; None present

**Sara Hazard Classification** SARA Hazard Categories: Immediate Hazard:Yes Delayed Hazard:Yes Fire Hazard-No Pressure Hazard-No Reactivity Hazard-yes

**Sara Hazard Classification** Nitrate compounds, water dissociable-SARA 313 listed

**Proposition 65** No Proposition 65 listed components in this formula

### 16 OTHER INFORMATION

**REACH status** No RoHS or REACH SVHC are contained in this product.

**Disclaimer:** The information is based on our knowledge to date but does not constitute an assurance of product properties and does not imply a legal contractual relationship.

**Date Prepared:** 9/9/14



# Homeland Security

## The chemicals you are receiving may need to be reported to the Department of Homeland Security.

The Department of Homeland Security (DHS) regulates security at facilities that have certain chemicals and that DHS considers high-risk under the Chemical Facility Anti-Terrorism Standards (CFATS) program (6 CFR Part 27). The CFATS program ensures high-risk facilities have security measures in place to reduce the risks associated with chemicals of interest (COI). One of the chemicals you have received is a CFATS chemical of interest.

**Facilities that come into possession of screening threshold quantities of COI must report their holdings to DHS within 60 days by filing a Top-Screen survey.** The list of COI and their screening threshold quantities is available at [www.dhs.gov/publication/cfats-coi-list](http://www.dhs.gov/publication/cfats-coi-list).

### Who is included in this regulation?

All facilities that come into possession of reportable amounts of these COI must submit a Top-Screen survey unless they fall under an exclusion. A facility is excluded by statute if it's

- Regulated by the Maritime Transportation Security Act
- A public water system, as defined in 42 U.S.C. § 300
- A Treatment Works, as defined in 33 U.S.C. § 1292
- Owned or operated by the Department of Defense or Department of Energy
- Subject to regulation by the Nuclear Regulatory Commission

A facility may also not have to report COI to DHS if it is an agricultural production facility that uses the COI on crops, feed, land, livestock, or poultry. Read more in Federal Register Vol. 73, No. 6, page 1640 ([www.gpo.gov/fdsys/pkg/FR-2008-01-09/pdf/E8-199.pdf](http://www.gpo.gov/fdsys/pkg/FR-2008-01-09/pdf/E8-199.pdf)).

### How do I report to DHS?

- **Contact the CFATS Help Desk** with questions or to begin the process. The Help Desk can be reached at 866-323-2957 or at [csat@hq.dhs.gov](mailto:csat@hq.dhs.gov).
- **Learn more about the program** at [www.dhs.gov/chemicalsecurity](http://www.dhs.gov/chemicalsecurity). Resources include the regulation, list of chemicals of interest, frequently asked questions, and more on how facilities' information is protected as Chemical-terrorism Vulnerability Information.

To submit a confidential report to DHS regarding a facility that may not be reporting its chemicals, contact the **CFATS Chemical Facility Security Tip Line**, 877-394-4347 (877-FYI 4 DHS), or email [CFATSTips@hq.dhs.gov](mailto:CFATSTips@hq.dhs.gov).