

BRADY INDUSTRIES, LLC MATERIAL SAFETY DATA SHEET
PRODUCT: BRADY LAUNDRY BREAK
Page 1 of 4

MSDS Date: July 25, 2011
Emergency Contact: 1-800-424-9300

SECTION I

PRODUCT NAME: Brady Laundry Break
CHEMICAL NAME: Sodium Hydroxide
CHEMICAL FAMILY: Metal Hydroxide

DOT SHIPPING INFORMATION: Sodium Hydroxide Solution, 8
UN 1824, PG II
RQ = 4000 lbs

SECTION II - HAZARDOUS INGREDIENTS

This material contains no ingredients which are known by Brady Industries, LLC to be hazardous unless listed below.

HAZARDOUS MATERIAL	CAS NUMBER	w/w %	EXPOSURE LIMITS IN AIR
Sodium Hydroxide	1310-73-2	20-70	PEL/TLV = 2 mg/m ³ TWA

The specific identity of some ingredients may be withheld for confidential business purposes. However, all known potential health effects from exposure to these ingredients are being addressed.

SECTION III - HEALTH HAZARD DATA

NEPA HAZARD RATING

Health = 3
Flammability = 0
Reactivity = 1

Carcinogenic Listing:

NTP: No Components listed.

IARC MONOGRAPHS: No Components listed.

OSHA 29 CFR 1910: No Components listed.

ENTRY ROUTES & EFFECTS OF OVEREXPOSURE:

Contact Eyes: Corrosive. Can cause extensive burns to eyes and mucous membranes. Severe contact can result in permanent blindness.
Skin: Corrosive. Can cause extensive burns to skin.

Inhalation Vapor can cause discomfort and/or tissue damage to lungs and upper respiratory tract.

BRADY INDUSTRIES, LLC MATERIAL SAFETY DATA SHEET
PRODUCT: BRADY LAUNDRY BREAK
Page 2 of 4

Ingestion	Highly toxic. Harmful or fatal if swallowed. Causes severe burns to the gastrointestinal system.
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STATEMENT OF PRACTICAL TREATMENT:

Contact	Eyes: Immediately flush with water for at least 15 minutes. Obtain medical attention immediately. Skin: Immediately flush with water for at least 15 minutes. Obtain medical attention immediately.
Inhalation	Remove at once to fresh air. If breathing has stopped, administer artificial respiration. Obtain medical attention.
Ingestion	If conscious, give several glasses of water or milk followed by citrus juice or dilute vinegar. <i>Do not</i> induce vomiting! Call a physician or local Poison Control Center at once!

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT:
N/A

EXPLOSION:
N/A

FLAMMABLE LIMITS:
UEL: N/A
LEL: N/A

EXTINGUISHING MEDIA:
Use media appropriate for surrounding fire.

SPECIAL FIRE-FIGHTING PROCEDURES:
Avoid direct contact with water; considerable heat is generated, resulting in dangerous boiling and spattering.

SECTION V - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:
Avoid breathing vapor or mist. Use NIOSH approved respiratory protection equipment appropriate to the material and/ or its components when airborne exposure limits are exceeded (see below). Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH or the manufacturer. For emergency and other conditions where exposure limit may be significantly exceeded, use an approved full-face positive-pressure, self-contained breathing apparatus or positive -pressure airline with auxiliary self-contained air supply. Respiratory protection programs must comply with 29 CFR & 1910.134

VENTILATION:
Investigate engineering techniques to reduce exposures below airborne exposure limits. Provide ventilation

BRADY INDUSTRIES, LLC MATERIAL SAFETY DATA SHEET
PRODUCT: BRADY LAUNDRY BREAK
Page 3 of 4

if necessary to control exposure levels below airborne exposure limits. Dilution ventilation acceptable, but local mechanical exhaust ventilation preferred, if practical, at sources of air contamination such as open process equipment. Consult ACGIH ventilation manual or NFPA Standard 91 for design of exhaust systems. Monitor carbon monoxide and oxygen levels in tank and enclosed spaces.

EYE PROTECTION:

Chemical goggles, face shield.

SKIN PROTECTION:

Protective clothing, rubber boots, vinyl or neoprene gloves.

OTHER PROTECTIVE EQUIPMENT:

As needed to prevent contact with skin and eyes.

SECTION VI - SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS:

Avoid all contact. Do not take internally. Do not breathe vapor. Wash thoroughly after handling. Ensure lids are tightly secured. Store in a cool, dry area. Keep out of reach of children.

SECTION VII - PHYSICAL DATA

MELTING POINT C (F):	Approx. 0C (32F)	BOILING POINT C (F):	Approx. 115C (240F)
DENSITY:	1.27	VAPOR PRESSURE (mmHg):	N/A
pH:	>11	EVAPORATION RATE:	Similar to water
APPEARANCE AND ODOR:	Water-white, clear to slightly turbid with no odor.		

SECTION VIII - REACTIVITY DATA

STABILITY:

This product is expected to be stable.

HAZARDOUS POLYMERIZATION:

Will not occur.

CONDITIONS OR MATERIALS TO AVOID:

Avoid contact with other chemicals, especially organics, metals and strong acids.

HAZARDOUS DECOMPOSITION PRODUCTS:

Explosive hydrogen gas can be liberated on contact with metals, such as zinc, tin or aluminum. Hydrogen gas can result in explosive hazards in confined spaces.

SECTION IX - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL SPILLS OR LEAKS:

Evacuate area. Wear proper safety equipment. Dike the liquid and recover into containers. Dilute residue

BRADY INDUSTRIES, LLC MATERIAL SAFETY DATA SHEET
PRODUCT: BRADY LAUNDRY BREAK
Page 4 of 4

with water and neutralize with dilute acid (preferably acetic acid may be used to neutralize residual traces of caustic soda). Place into containers for proper disposal. (See below).

WASTE DISPOSAL METHOD:

Waste product is an EPA hazardous waste (D002) due to corrosivity and must be disposed of at an EPA approved waste disposal facility. Contact local EPA office. Comply with all local, state and federal regulations

ACGIH = American Conference of Governmental Industrial Hygienists

CL = Ceiling Level

IARC = International Agency for Research on Cancer: Monographs

OSHA = Occupational Safety and Health Administration

N/D = Not Determined

N/A = Not Applicable

NTP = National Toxicology Program: Annual Report on Carcinogens

PEL = Permissible Exposure Level (OSHA)

TLV = Threshold Limit Value (ACGIH)

TWA = Time Weighted Average over 8 Hours

This information is, to the best of our knowledge, accurate but may not be complete. BRADY INDUSTRIES, LLC furnishes this information in good faith, but without warranty, representation or guarantee of its accuracy, completeness, or reliability.