

# Safety Data Sheet



## 1: Identification

### 1.1: Product Identifier

Product Name: NaBr

Product Number(s): 1NABR-0008F

CAS Number: 7647-15-6

SDS Document Number: 000232

### 1.2: Recommended Uses and Restrictions

Recommended Uses

Manufacture of substances

Restrictions

Not for food or drug use.

### 1.3: Supplier Contact Information

APL Engineered Materials, Inc.

2401 N. Willow Rd.

Urbana, IL 61802

Phone: 217-367-1340

Fax: 217-367-9084

### 1.4: Emergency Phone Number

United States: 800-255-3924

International: +01-813-248-0585

## 2: Hazards Identification

### 2.1: Classifications

Not a hazardous substance or mixture - .

### 2.2: GHS Label Elements

Pictograms

Signal Word:

Hazard Statements

Not a hazardous substance.

Precautionary Statements

Not a hazardous substance.

### 2.3: Hazards Not Otherwise Classified or Not Covered by GHS

None.

#### 2.4: Amount(s) of substances with unknown toxicity

None

### 3: Composition/Information on Ingredients

3.1: .Ingredient	.Weight%	.Formula	.CAS Number	.Mol Wt	.EC Number
NaBr	100	NaBr	7647-15-6	102.89	231-599-9

#### 3.2: Other Hazardous components

none

#### 3.3: Trade Secret Disclaimer

none

#### 3.4: Synonyms

Sodium Bromide

### 4: First Aid Measures

#### 4.1: First Aid

##### General

Remove person from area of exposure and remove any contaminated clothing

Consult with physician and provide this Safety Data Sheet

##### In contact with eyes

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids.

Seek medical attention if irritation develops or persists

##### In contact with skin

Wash thoroughly with soap and plenty of water. Remove all contaminated clothing for proper laundering. Seek medical attention if irritation develops or persists.

##### If swallowed

If conscious and alert, rinse mouth and drink 2-4 cupfuls of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical aid.

##### If inhaled

Remove from exposure to fresh air immediately. If breathing is difficult, give oxygen. Get medical aid.

If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

#### 4.2: Most important symptoms and effects; acute and delayed

Stomach irregularities based on human evidence.

#### 4.3: Indication of any immediate medical attention and special treatment needed

no data available

### 5: Fire Fighting Measures

#### 5.1: Fire extinguishing media

water or alcohol-resistant foam

carbon dioxide

dry chemical

5.2: Specific hazards arising from the substance or mixture

hydrobromic acid and hydrobromic acid fumes

sodium oxide

5.3: Special protective equipment and precautions for firefighters.

Wear self contained breathing apparatus for fire fighting if necessary

## 6: Accidental Release Measures

6.1: Personal precautions, protective equipment, and emergency procedures.

Evacuate personnel to safe areas.

Ensure adequate ventilation.

Use personal protective equipment.

Avoid dust formation.

Avoid breathing dust.

For personal protection see section 8.

6.2: Methods and materials for containment and cleaning up.

Keep in suitable, closed containers for disposal.

Sweep up and shovel.

6.3: Environmental precautions

Do not let product enter drains.

6.4: Disposal

Dispose of in accordance with local regulations.

See section 13.

## 7: Handling and Storage

7.1: Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

See precautionary statements in section 2.2.

Avoid contact with skin and eyes.

Avoid formation of dust and aerosols.

7.2: Conditions for safe storage

Store under inert gas.

Store away from moisture.

Keep container tightly closed.

Store in a dry and well-ventilated place.

7.3: Incompatibilities

strong acids

halogens

moisture sensitive

alkali metals

strong oxidizing agents

## 8: Exposure Controls/Personal Protection

### 8.1: Control parameters

OSHA permissible exposure limit (PEL)

not listed

ACGIH threshold limit value (TLV)

not listed

NIOSH recommended exposure limit (REL)

not listed

### 8.2: Engineering controls

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower

Use adequate ventilation to keep airborne concentrations low

### 8.3: Personal protective equipment

Eyes

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166

Skin

Wear appropriate, chemical-resistant protective gloves to prevent skin exposure.

Clothing

Wear appropriate protective clothing to prevent skin exposure

Respirator

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149.

Always use a NIOSH or European Standard EN 149 approved respirator when necessary

## 9: Physical and Chemical Properties

### 9.a: Appearance

State: Solid

Form: powder or spheres

Color: colorless

### 9.b: Odor: no data available

### 9.c: Odor threshold: no data available

### 9.d: pH: no data available

### 9.e: Melting point / freezing point: 755 °C (1,391 °F)

### 9.f: Initial boiling point and range: 1,393 °C (2,539 °F) at 1,013 hPa (760 mmHg)

### 9.g: Flashpoint: no data available

### 9.h: Evaporation rate: no data available

### 9.i: Flammability (solid, gas): no data available

### 9.j: Upper/lower flammability or explosive limits: no data available

### 9.k: Vapor pressure: 1 hPa (1 mmHg) at 806 °C (1,483 °F)

### 9.l: Vapor density: no data available

- 9.m: Relative density: 3.203 g/cm<sup>3</sup>  
9.n: Water Solubility: 900 g/l soluble  
9.o: Partition coefficient: n-octanol/water: no data available  
9.p: Auto-ignition temperature: no data available  
9.q: Decomposition temperature: no data available  
9.r: Viscosity: no data available

## 10: Stability and Reactivity

### 10.1: Reactivity

no data available

### 10.2: Chemical stability

Stable under recommended storage conditions.

### 10.3: Possibility of hazardous reactions

no data available

### 10.4: Conditions to avoid

exposure to water

### 10.5: Incompatible materials

See section 7.3.

### 10.6: Hazardous decomposition products

Other decomposition products - no data available

In the event of fire: see section 5.2

## 11: Toxicological Information

### 11.1: Toxicity data

Acute toxicity - Oral

LD50 Oral - rat - 3,500 mg/kg.

Acute toxicity - Dermal

LD50 Dermal - rabbit - >2,000 mg/kg.

Acute toxicity - Inhalation

No data available.

Skin corrosion/irritation

Not corrosive / irritant.

Eye damage/irritation

Non-irritating.

Respiratory irritation

No data available.

Germ cell mutagenicity

Tests showed no mutagenic effects.

Reproductive toxicity

Suspected reproductive toxicant.

Specific organ toxicity - single exposure

No data available.

Specific organ toxicity - repeated exposure

No data available.

Aspiration hazard

No data available.

Additional information

RTECS: VZ3150000

ACGIH carcinogenicity

The ACGIH has not identified any component of this product present at levels greater than or equal to 0.1% as a probable, possible or confirmed human carcinogen.

IARC carcinogenicity

The IARC has not identified any component of this product present at levels greater than or equal to 0.1% as a probable, possible or confirmed human carcinogen.

NTP carcinogenicity

The NTP has not identified any component of this product present at levels greater than or equal to 0.1% as a probable, possible or confirmed human carcinogen.

OSHA carcinogenicity

OSHA has not identified any component of this product present at levels greater than or equal to 0.1% as a probable, possible or confirmed human carcinogen.

#### 11.2: Routes of exposure

skin

oral

eyes

See section 2.2

#### 11.3: Symptoms of exposure

See section 4.2

#### 11.4: Delayed and immediate effects of exposure

Inorganic bromides may lead to depression, emaciation and in severe cases psychosis and severe mental deterioration. Bromoderma, a bromine rash, often occurs from prolonged exposure and usually occurs on the face resembling acne or furunculosis.

Suspected human reproductive toxicant

## 12: Ecological Information

#### 12.1: Ecotoxicity

Toxicity to fish

NOEC - Bluegill sunfish (*Lepomis macrochirus*) - 96 h = 1000 mg/L

Toxicity to daphnia and other aquatic invertebrates

NEOC - *Daphnia magna* (Water flea) - 1000 mg/l - 48 h

Toxicity to algae/bacteria

EC50 and NOEC -algae (*Skeletonema costatum*) - >1000 mg/l - 72 Hr.

#### 12.2: Persistence and degradability

no data available

12.3: Bioaccumulative potential

no data available

12.4: Mobility in soil

no data available

12.5: Other effects

no data available

## 13: Disposal Considerations

13.1: Waste treatment methods

No data available

13.2: Safe handling

See section 7.1 .

13.3: Product disposal

Contact a licensed professional waste disposal service to dispose of this material.

13.4: Packaging disposal

Dispose of as unused product.

## 14: Transport Information

14.1: DOT(US)

UN Number: Not a dangerous good

Proper Shipping Name:

Packing Group:

Shipping Class(es): 0

Marine Pollutant: No

14.2: IMDG

UN Number: Not a dangerous good

Proper Shipping Name:

Packing Group:

Shipping Class(es): 0

Marine Pollutant: No

14.3: IATA

UN Number: Not a dangerous good

Proper Shipping Name:

Packing Group:

Shipping Class(es): 0

14.4: Special Shipping Precautions

None

## 15: Regulatory Information

15.1: TSCA inventory

This material is listed on the TSCA inventory.

#### 15.2: SARA 302 components

This material is not subject to the reporting requirements of SARA Title III, Section 302.

#### 15.3: SARA 313 components

This material is not subject to the reporting requirements of SARA Title III, Section 313.

#### 15.4: SARA 313/312 hazards

Chronic health hazard.

#### 15.5: Other information

New Jersey Right To Know Components -This product does not contain materials listed on the New Jersey Right to Know list

Pennsylvania Right To Know Components -This product does not contain materials listed on the Pennsylvania Right to Know list

Massachusetts Right To Know Components - This product does not contain materials listed on the Massachusetts Right to Know list

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.

## 16: Additional Information

#### 16.1: NFPA

Health: 0

Fire: 0

Reactivity: 0

Special:

#### 16.2: HMIS

Health: 0

Chronic: \*

Flammability: 0

Physical Hazard: 0

#### 16.3: Disclaimers

The information herein is believed to be accurate and reliable as of the date compiled. However, APL Engineered Materials, Inc. makes no representation, warranty, or guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.

For industrial use only. Not for drug, household or other uses

#### 16.4: References

Information contained on this SDS sheet was obtained from some or all of the following sources: American Conference of Governmental Industrial Hygienists (ACGIH), TLVs and BEIs; National Institute for Occupational Safety and Health (NIOSH), Pocket Guide to Chemical Hazards; European Chemicals Agency, <http://echa.europa.eu/>; The National Institute of Health, U.S National Library of Medicine, TOXNET, Toxicology Data Network; and the Registry of Toxic Effects of Chemical Substances (RTECS) database.

#### 16.5: Version

Preparation Date: 5/22/2015

Revision Date: 5/22/2015

Version Number: GHS 1.0