

Brain Power Inc.

Safety Data Sheet according to EC 1907/2006, 1272/2008, 830/2015

OSHA Hazard Communication Standard 29 CFR 1910.1200. GHS Rev

Date of Issue: 4 November, 2016

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier(s): **BPI Ultrasonic A**

Product code(s): 71301.

1.2 Relevant Identified Uses of the substance or mixture and uses advised against:

Use: An alkaline cleaning solution for use in ultrasonic cleaners.

Uses advised against: No data

1.3 Details of the supplier of the safety data sheet:

Brain Power Inc.; 4470 S.W. 74th Ave.; Miami, Florida ; USA 33155.

1.4 Emergency Telephone Number:

Telephone: 0013052644465 Fax: 0013052641467

Information department: 001 305 264 4465

Emergency contact: 001 305 264 4465 (x364)

2. Hazards identification

2.1 Classification of the substance or mixture according to Regulation EC 1272/2008 (CLP):

Causes skin irritation (H315)

Causes serious eye irritation (H319).

2.2 GHS Label elements (EC) 1272/2008:



Pictogram(s): "Exclamation Point" (GHS07)

Signal Word: Warning

Contains: Sodium hydroxide

Hazard Statement(s): Causes skin irritation (H315).
Causes serious eye irritation (H319).

Precautionary Statement(s): Wash thoroughly after handling (P264). Wear protective gloves and eye protection (P 280). If swallowed, call a poison center or physician if you feel unwell (P301+P312). Rinse mouth with water (P330). If on skin: wash with plenty of soap and water (P302+P352). If skin irritation occurs: get medical advice (P332+P313). Take off contaminated clothing and wash before reuse (P362). If in eyes, rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing (P305+P351+P338). If eye irritation persists, get medical advice. (P337+P313). Dispose of contents/container in accordance with local / national / international regulations (P501).

2.3 May cause eye irritation.

3. Composition / information on ingredients

3.1 Substance:

Chemical name:

CAS-Reg.No:

EC-No:

EINECS-No:

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Further information:

3.2 Mixture:

Description: Alkali mix in water.

Chemical name: Sodium hydroxide

Synonym: Caustic soda

CAS-Reg.No: 1310-73-2

EC-No: 215-185-5

EINECS-No: 011-002-00-6

Hazard(s): Skin Corrosive 1A (H314); Eye Damage 1 (H318).

Concentration: 2.0%

Ingredients at concentrations not known to be hazardous:

Content: 98%

Further information: Other ingredients not at concentrations known to be hazardous.

4. First-aid measures

4.1 Description of first aid measures

- General Advice : Consult a physician. Show this safety data sheet to the doctor. If exposed or concerned, get medical advice/attention (P308+P313).
- Inhalation : Avoid breathing spray (P261). Move to fresh air.
- Skin contact : If on skin: wash with plenty of soap and water (P302+P352). Flush exposed area well with water for at least 15 minutes. If skin irritation or rash occurs: get medical advice (P333+P313).
- Eye contact : If in eyes, rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing (P305+P351+P338). If eye irritation persists, get medical advice. (P337+P313).
- Ingestion : Possibly harmful if swallowed.If swallowed, call a poison center or physician if you feel unwell (P301+P312). Rinse mouth with water (P330). Show the container, safety data sheet or label.

4.2 Most important symptoms and effects, both acute and delayed

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

4.3 Indications of any immediate medical attention and special treatment needed

See section 2.2 .

5. Fire-fighting measures

5.1 Extinguishing media: Water fog, dry chemical, carbon dioxide, foam.

Unsuitable extinguishing media: No data

5.2 Special hazards arising from the substance or mixture:

Causes skin irritation (H315). Causes serious eye irritation (H319).

Decomposes to oxides of sodium.

5.3 Advice for fire-fighters: Wear self-contained breathing apparatus with protective clothing to avoid personal contact.

6. Accidental release measures

6.1 Personal precautions, protective

equipment and emergency procedures : Avoid skin contact. Do not swallow. Wear impervious gloves (such as disposable latex) and splash proof chemical goggles. For major spills wear a NIOSH or CEN approved respirator. Wash thoroughly after handling (P264). Take off contaminated clothing and wash before reuse (P362).

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- 6.2 Environmental precautions : Soak up all spills with inert absorbent material. Place in closed container for proper waste disposal.
- 6.3 Methods and materials for containment and cleaning up: Soak up all spills with inert absorbent material. Place in closed container for proper waste disposal.
- 6.4 Reference to other sections : See Section 4 and 5.2
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7. Handling and storage

- 7.1 Precautions for Safe Handling: Wear protective gloves (P 280). Wash thoroughly after handling (P264). Keep out of reach of children. Wear protective gloves (P 280). Use personal protective equipment as required (P281). Avoid breathing dust or spray (P261). Causes serious eye irritation (H319). Causes skin irritation (H315). Avoid eye and skin contact.
- 7.2 Conditions for Safe Storage: Stable on storage under normal conditions. Avoid oxidizing agents, strong acids.
- 7.3 Specific End Use: An alkaline cleaning solution for use in ultrasonic cleaners.
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8. Exposure controls and personal protection

- 8.1 Control parameters: OSHA TWA 2.0 mg/m³ for sodium hydroxide.
- 8.2 Exposure control: Handle in accordance with good industrial hygiene and safety practices. Avoid all personal contact. Wear appropriate safety equipment. Wash hands before breaks and at the end of workday.
- Personal protective equipment :
- Respiratory protection : Where risk assessment shows air purifying respirators are appropriate, use a NIOSH or CEN approved respirator for organic chemicals. Ventilation: Local mechanical exhaust is recommended.
- Hand protection : Wear protective gloves (P280). Wear suitable impervious gloves (such as disposable latex).
- Eye / face protection : Wear eye protection (P280). Chemical resistant safety goggles are strongly recommended.
- Skin protection : Protective lab coat recommended. Wear suitable protective clothing and gloves.
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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance:
- Colour: Slightly turbid liquid
- Odour: Slight odor
- Changes in physical state
- Boiling point/Boiling range (°C) : > 100° C
- Melting point (°C) : < 0° C
- Freezing temperature (°C) : < 0° C
- Flash point (°C) : not applicable
- Ignition temperature (°C) : no data
- Autoignition : no data
- Explosion hazard : None known
- Explosion limits (Vol.-%) : lower: n/a upper: n/a
- Vapour pressure (mbar) : Due to water
- Vapor density (g/cm³) : Due to water
- Bulk density (kg/m³) : ~1000
- Solubility in water : Miscible
- Solubility in other solvents : no data
- pH-value : no data
- Viscosity : no data

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9.2 Other safety information : no data available

10. Stability and reactivity

10.1 Reactivity : Hazardous polymerization will not occur.
10.2 Chemical Stability : Stable on storage under normal conditions.
10.3 Possibility of Hazardous Reactions : None Known
10.4 Conditions to avoid : None Known
10.5 Incompatible materials : Avoid oxidizing agents, strong acids.
10.6 Hazardous decomposition products : Decomposes to oxides of sodium.

11. Toxicological information

11.1 Information on toxicological effects:

Acute toxicity: Possibly harmful if swallowed.

Specific symptoms in animal experiments: No data

Irritation effects: May cause slight irritation by inhalation. Causes skin irritation (H315). Causes serious eye irritation (H319). If eye irritation persists, get medical advice (P337+P313). If skin irritation occurs: get medical advice (P333+P313).

Sensitization: No data.

Subacute to chronic toxicity: No data.

Carcinogenicity, mutagenicity, teratogenicity:

NTP? No

IARC Monographs? No

OSHA Regulated? No

11.2 Other information: Overexposure may cause redness and irritation.

12. Ecological Information

12.1 Toxicity: LC50-Oncorhynchus mykiss (rainbow trout)-45.4 mg/l-96 hr for sodium hydroxide component.

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 Results of PBT and vPvP Assessment: no data available

12.6 Other Adverse Effects : no data available

13. Disposal considerations

13.1 Waste Treatment Methods: Dispose of contents/container in accordance with Local / national / international regulations (P501).

14. Transport Information

14.1 UN Number: 3266

14.2 UN Proper Shipping Name: Corrosive Liquid, Basic, Inorganic, N.O.S.,(Sodium-Hydroxide solution).

14.3 Transport Hazard Class(es): 8

14.4 Packaging Group: III

14.5 Environmental Hazards: See above

14.6 Special precautions for user: None other than listed in sections 7 and 8.

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14.7 Transport in bulk according
to Annex II of Marpol and
the IBC Code:

See above.

14.8 Information for each of the
UN Model Regulations:

See above

IMDG/IMO:

See above

ADR:

See above

Air transport

ICAO/IATA-DGR

Class: 8 UN/ID-No.: 3266

PG: III

Technical name of material: Corrosive Liquid, Basic, Inorganic, N.O.S.,(Sodium-Hydroxide solution).

Remarks: Limited Quantities , Pkg Instr Y841.

Additional information: (US) DOT: Corrosive Liquid, Basic, Inorganic, N.O.S.,(Sodium-Hydroxide solution).

15. Regulatory Information

15.1 Safety, Health and Environmental Regulations / Legislation Specific for the Substance or Mixture:
EC 1907/2006, 1272/2008, 830/2015

15.2 Chemical Safety Assessment : Warning! ; "Exclamation Point" (GHS07).

Contains: Sodium hydroxide (Cas No. 1310-73-2; E.C. No. 215-185-5)

Hazard statement: See section 2

Precautions: See section 2

15.3 Additional information:

TSCA listed ingredients. EC listed ingredients.

The following components are subject to reporting levels established by SARA Title III section 313:
None.

These products contain no chemical known to the State of California to cause cancer.

16. Other Information

NFPA Codes: H: 1; F: 0; R: 0.

The information contained herein is based on the present state of our knowledge and does not therefore guarantee certain properties. The safety data sheet only describes the products in aspect to their safety requirements. Recipients of our product must take responsibility for observing existing laws and regulations.