

# 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 Mark It**

Product codes: 71028, 71029.

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

Use: Marking plastic eyeglass lenses.

Uses advised against: No data

1.3 Details of the supplier of the safety data sheet:

Brain Power Inc.; 4470 S.W. 74<sup>th</sup> 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)

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## 2. Hazards identification

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

Highly flammable liquid and vapor (H225)

2.2 GHS Label elements (EC) 1272/2008:

Pictogram(s):



“Flame” (GHS02)

Signal Word: Danger

Contains: Ethanol

Hazard Statement(s): Highly flammable liquid and vapor (H225)

Precautionary Statement(s): Keep away from heat/sparks/open flames/hot surfaces – No smoking (P 210). Use only in a well ventilated area (P 271). Wear protective gloves (latex) and eye protection (splash proof chemical goggles) (P 280). Avoid electrical equipment (P 241). Use only non-sparking tools (P242). Take precautionary measures against static discharge (P 243). ; Store in a well ventilated place; Keep cool (P403 +P 235). Store locked up (P405).

Avoid breathing vapors (P261). Wash thoroughly after handling (P264). Use only in well ventilated areas (P271). Take off contaminated clothing and wash before reuse (P362). Wear protective gloves (latex) and eye protection (splash proof chemical goggles) (P 280). If exposed or concerned, get medical advice/attention (P308+P313). 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). If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). Call a poison center or physician if you feel unwell (P312). In case of fire, use water fog, dry chemical, carbon dioxide, or alcohol type foam for extinction (P 370+P 378). Keep container tightly closed (P 233). Store locked up (P405). Dispose of contents/container in accordance with local / national / international regulations (P501).

2.3 Highly flammable.

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## 3. Composition / information on ingredients

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## 3.1 Substance:

Chemical name:  
CAS-Reg.No:  
EC-No:  
EINECS-No:  
Further information:

## 3.2 Mixture:

Description: Mix of alcohols with a colored coating agent.

Chemical name: Ethanol  
Synonym: Ethyl alcohol  
CAS-Reg.No: 64-17-5  
EC-No: 200-578-6  
EINECS-No: 603-002-00-5  
Hazards: Flam. Liq. 2 (H225).  
Concentration: 87%

Chemical name: Methanol  
Synonym: not available  
CAS-Reg.No: 67-56-1  
EC-No: 200-659-6  
EINECS-No: 603-001-00-X  
Hazards: Acute Tox. 3 (H311); Flam. Liq. 2 (H225).  
Concentration: less than 3%

Ingredients at concentrations not known to be hazardous:  
Content: 10%  
Further information: Other ingredients not at concentrations known to be hazardous.

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## 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 vapors (P261). If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340).  
Skin contact : If on skin: remove all contaminated clothing; rinse skin with water (P303+P361+P353).  
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 : Call a poison center or physician if you feel unwell (P312). 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 .

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## 5. Fire-fighting measures

5.1 Extinguishing media: In case of fire, use water fog, dry chemical, carbon dioxide, or alcohol type foam for extinction (P 370+P 378).

Unsuitable extinguishing media: No data

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5.2 Special hazards arising from the substance or mixture:

Avoid breathing vapors (P261). Decomposes to oxides of carbon and nitrogen.

5.3 Advice for fire-fighters:

Wear self-contained breathing apparatus with protective clothing to avoid personal contact.

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### 6. Accidental release measures

6.1 Personal precautions, protective

equipment and emergency procedures : Avoid breathing vapors (P261). Wear protective gloves (latex) and eye protection (splash proof chemical goggles) (P280). For major spills wear a NIOSH or CEN approved respirator.

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. Dispose of container/contents in accordance with local/regional/national regulations (P501)

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:

Use only in a well ventilated area (P 271). Wear protective gloves (latex) and eye protection (splash proof chemical goggles) (P 280). Avoid breathing vapors (P261). Wash thoroughly after handling (P264). Keep away from heat/sparks/open flames/hot surfaces – No smoking (P 210). Use explosion proof electrical equipment (P 241). Use only non-sparking tools (P242). Take precautionary measures against static discharge (P 243). Avoid eye and skin contact.

7.2 Conditions for Safe Storage, including any incompatibilities:

Stable on storage under normal conditions. Avoid oxidizing and reducing agents. Store in a well ventilated place; Keep container tightly closed; Keep cool (P403+P233+P 235). Store locked up (P405).

7.3 Specific End Use:

Marking plastic eyeglass lenses.

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### 8. Exposure controls and personal protection

8.1 Control parameters:

OSHA TWA 1,900 mg/m<sup>3</sup> for ethanol component.

8.2 Exposure control:

Avoid breathing vapors (P261). Wash thoroughly after handling (P264). Keep away from heat/sparks/open flames/hot surfaces – No smoking (P 210). 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.

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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:

Color: Strongly colored liquid

Odor: Alcohol/fragrant odor

Changes in physical state

Boiling point/Boiling range (°C) : > 65°C (149F)

Melting point/Freezing temperature (°C): no data available

Flash point (°C) : >12°C (54F) (PMCC)

Ignition temperature (°C) : no data available

Autoignition : no data available

Explosion hazard : no data available

Flammability/Explosion limits (Vol.-%) : lower: N/D upper: N/D

Vapour pressure (mbar) : no data available

Vapor density (g/cm<sup>3</sup>) : no data available

Bulk density (kg/m<sup>3</sup>) : ~800

Solubility in water : Miscible

Solubility in other solvents : no data available

pH-value : no data available

Viscosity : no data available

9.2 Other safety information : no data available

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## 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 : Avoid ignition sources.

10.5 Incompatible materials : Avoid oxidizing and reducing agents.

10.6 Hazardous decomposition products : Decomposes to oxides of carbon and nitrogen.

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## 11. Toxicological information

### 11.1 Information on toxicological effects:

Acute toxicity: No data

Specific symptoms in animal experiments: Oral LD50 10.4 g/kg (rat) for ethanol component.

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

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.

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### 12. Ecological Information

12.1 Toxicity: LC50 - Pimephales promelas (fathead minnow) - 14.2 g/l - 96 hr for ethanol component.

12.2 Persistence and Degradability: 95 % - Readily biodegradable for ethanol component.

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

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### 13. Disposal considerations

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

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### 14. Transport Information

14.1 UN Number: 1987

14.2 UN Proper Shipping Name: Alcohols, n.o.s.

14.3 Transport Hazard Class(es): 3

14.4 Packing Group: II

14.5 Environmental Hazards: None.

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

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: 3 UN/ID-No 1987 PG: II

Technical name of material: Alcohols, n.o.s.

Remarks: Can be shipped limited quantity.

Additional information: (US) DOT: See above – flammable liquid

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### 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 : Danger! ; "Flame" (GHS02).  
Contains: Ethanol (CAS. No. 64-17-5; EC No. 200-578-6)  
Methanol (CAS No. 67-56-1; EC No. 200-659-6) (less than 3%)

Hazard statement: See section 2

Precautions: See section 2

15.3 Additional information:

TSCA listed ingredients. EC listed ingredients.

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The following components are subject to reporting levels established by SARA Title III section 313: Methanol.

This product contains a chemical known to the State of California to cause birth defects or other reproductive harm (Methanol).

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### **16. Other Information**

**NFPA Codes:** H: 1; F: 4; R: 0.

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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.