

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 Off II (Polycarbonate)**

Product code(s): 71026.

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

Use: Remove markings from 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. 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 serious eye irritation (H319)

Causes skin irritation (H315)

2.2 GHS Label elements (EC) 1272/2008:



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

Signal Word: Warning

Contains: 2-[(2-ethylhexyl)oxy] ethanol
2-[2-(2-ethylhexyloxy)ethoxy] ethanol

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

Precautionary Statement(s): 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 on skin: wash with plenty of soap and water (P302+ P352). If exposed or concerned, get medical advice/attention (P308+313). 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 Irritating to eyes and skin. Possible inhalation irritant.

3. Composition / information on ingredients

3.1 Substance:

Chemical name:

CAS-Reg.No:

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

EC-No:

EINECS-No:

Further information:

3.2 Mixture:

Description: Mix of alcohols and glycol ethers with a thickening agent.

Chemical name: 2-[(2-ethylhexyl)oxy] ethanol

Synonym: No data

CAS-Reg.No: 1559-35-9

EC-No: 216-323-7

EINECS-No:

Hazards: Skin Irrit. 2 (H315); Eye Irrit. 2 (H319).

Concentration: 82%

Chemical name: 2-[2-(2-ethylhexyloxy)ethoxy] ethanol

Synonym: No data

CAS-Reg.No: 1559-36-0

EC-No:

EINECS-No:

Hazards: Not Classified.

Concentration: 14%

Chemical name: Triethylene glycol mono(2-ethylhexyl) ether

Synonym: Ethanol, 2-[2-[2-[(2-ethylhexyl)oxy]ethoxy]ethoxy]-

CAS-Reg.No: 1559-37-1

EC-No:

EINECS-No:

Hazards: Not Classified.

Concentration: 1%

Ingredients at concentrations not known to be hazardous:

Content: 3%

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

4. First-aid measures

4.1 Description of first aid measures

- General Advice : Call a Poison Control Center or doctor if you feel unwell (P312).
In case of accident or if you feel unwell seek medical advice immediately.
Show this safety data sheet to the doctor.
- 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: wash with plenty of soap and water (P302+P352).
- 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 .

5. Fire-fighting measures

5.1 Extinguishing media: In case of fire, use water fog, dry chemical, carbon dioxide, or

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

alcohol type foam for extinction (P 370+P 378)..
Unsuitable extinguishing media: No data

5.2 Special hazards arising from the substance or mixture:

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

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 for 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

7. Handling and storage

7.1 Precautions for Safe Handling:

Obtain special instructions before use (P 201). Do not handle until safety precautions have been read and understood (P 202). Wear protective gloves (P 280). Use personal protective equipment as required (P281). Avoid breathing dust or spray (P261). Wash thoroughly after handling (P264). Do not eat, drink or smoke when using this product (P270) Keep out of reach of children. Use only with appropriate equipment. Do not use a hot plate or open flame. 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.

7.3 Specific End Use:

Remove markings from plastic eyeglass lenses.

8. Exposure controls and personal protection

8.1 Control parameters:

Contains no substances at concentrations with exposure limit values.

8.2 Exposure control:

Handle in accordance with good industrial hygiene and safety practices. Avoid all personal contact. Avoid breathing vapors (P261). 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.

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

Skin protection : Protective lab coat recommended. Wear suitable protective clothing and gloves.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:

Color:	Clear liquid
Odor:	Glycol ether odor
Changes in physical state	
Boiling point/Boiling range (°C) :	235°C (455F)
Melting point/Freezing temperature (°C):	no data available
Flash point (°C) :	102°C (216F) (PMCC)
Ignition temperature (°C) :	no data available
Autoignition :	no data available
Explosion hazard :	no data available
Flammability/Explosion limits (Vol.-%) :	lower: 32.1 mg/L upper: 378 mg/L
Vapour pressure (mbar) :	no data available
Vapor density (g/cm ³) :	no data available
Bulk density (kg/m ³) :	~882
Solubility in water :	no data available
Solubility in other solvents :	no data available
pH-value :	no data available
Viscosity :	no data available
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 :	Avoid ignition sources.
10.5 Incompatible materials :	Avoid oxidizing and reducing agents.
10.6 Hazardous decomposition products :	Decomposes to oxides of carbon and nitrogen.

11. Toxicological information

11.1 Information on toxicological effects:

Acute toxicity:	See below.
Specific symptoms in animal experiments:	Oral LD50 3.08 g/kg (rat) for 2-[(2-ethylhexyl)oxy] ethanol component.
Irritation effects:	Causes serious eye irritation (H319). Causes skin irritation (H315). May cause gastrointestinal irritation.
Sensitization:	no data available
Subacute to chronic toxicity:	no data available

Carcinogenicity, mutagenicity, teratogenicity:

NTP? No
IARC Monographs? No
OSHA Regulated? No

11.2 Other information: Overexposure may cause redness and irritation.

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

12. Ecological Information

12.1 Toxicity:	96-h LC-50 (fathead minnow) 10-100 mg/L for 2-[(2-ethylhexyl)oxy] ethanol component.
12.2 Persistence and Degradability:	No data.
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 :	COD 1.00-1.03 g oxygen/ml for 2-[(2-ethylhexyl)oxy] ethanol component.

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:	3285
14.2 UN Proper Shipping Name:	Corrosive liquid, acidic, organic, n. o. s. (contains: 2-[(2-ethylhexyl)oxy] ethanol)
14.3 Transport Hazard Class(es):	8
14.4 Packing Group:	III
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: 8
UN/ID-No.:	3285
PG:	III
Technical name of material:	Corrosive liquid, acidic, organic, n. o. s. (contains: 2-[(2-ethylhexyl)oxy] ethanol)
Remarks:	Can be shipped as a limited quantity.

Additional information: (US) DOT: See above.

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: 2-[(2-ethylhexyl)oxy] ethanol (CAS. No. 1559-35-9)
2-[2-(2-ethylhexyloxy)ethoxy] ethanol (CAS No. 1559-36-0)
Triethylene glycol mono(2-ethylhexyl) ether (CAS No. 1559-37-1)

Hazard statement: See section 2

Precautions: See section 2

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

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 chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other Information

NFPA Codes: H: 3; F: 1, 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.