

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 Silicone Sealant**

Product codes: 61800, 60699 (component).

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

Use: General purpose sealant.

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: Methyltriacetoxysilane,
Ethyltriacetoxysilane.

Hazard Statement(s):

Causes skin irritation (H315).

Causes serious eye irritation (H319).

Precautionary Statement(s):

Avoid breathing vapours (P261). Wash thoroughly after handling (P264). Wear protective gloves and eye protection (P280). 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). 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 slight irritation by inhalation. Causes eye and skin irritation.

3. Composition / information on ingredients

3.1 Substance:

Chemical name:

CAS-Reg.No:

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EC-No:

EINECS-No:

Further information:

3.2 Mixture:

Description: Mix of silanes.

Chemical name: Methyltriacetoxysilane

Synonym: No data

CAS-Reg.No: 4253-34-3

EC-No: 224-221-9

EINECS-No:

Hazards: Acute Tox. 4 (H302); Skin Corr. 1B (H314).

Concentration: 2%

Chemical name: Ethyltriacetoxysilane

Synonym: No data

CAS-Reg.No: 17689-77-9

EC-No: 241-667-4

EINECS-No:

Hazards: Acute Tox. 4 (H302); Skin Corr. 1B (H314); Eye Damage 1 (H318).

Concentration: 2%

Ingredients at concentrations not known to be hazardous:

Content: 96%

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 vapours (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 occurs: get medical advice (P332+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 : 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 serious eye irritation (H319). Decomposes to oxides of carbon, nitrogen and/or silicon. When heated to temperatures above 160C, in the presence of air, may form formaldehyde vapors.

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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 eye and 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).
- 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). Use personal protective equipment as required (P281). Keep out of reach of children. Use only with appropriate equipment. Avoid eye and skin contact.
- 7.2 Conditions for Safe Storage, including any incompatibilities: Stable on storage under normal conditions. Avoid oxidizing agents, water and moisture.
- 7.3 Specific End Use: Sealant.
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8. Exposure controls and personal protection

- 8.1 Control parameters: Acetic acid is formed upon contact with water or moisture. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 10 ppm and ACGIH TLV: TWA 10 ppm STEL 16 ppm.
- 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: Clear paste
Odour: Vinegar like odor

Changes in physical state

Boiling point/Boiling range (°C) : >100C

Melting point/Freezing temperature (°C): No Data

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Flash point (°C) :	no data available
Ignition temperature (°C) :	no data available
Autoignition :	no data available
Explosion hazard :	no data available
Explosion limits (Vol.-%) :	lower: N/D upper: N/D
Vapour pressure (mbar) :	no data available
Vapor density (g/cm3) :	no data available
Bulk density (kg/m3) :	1040 kg/m3
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:	29 gm/L VOC

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. Water and humidity can cause hazardous vapors to form. Acetic acid is formed upon contact with water or moisture. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 10 ppm and ACHIH TLV: TWA 10 ppm STEL 16 ppm.
10.6 Hazardous decomposition products :	Decomposes to oxides of carbon, nitrogen and/or silicon. When heated to temperatures above 160C, in the presence of air, may form formaldehyde vapors.

11. Toxicological information

11.1 Information on toxicological effects:

Acute toxicity:	May be harmful by ingestion. See below.
Specific symptoms in animal experiments:	Oral LD50 2.06 g/kg (rat) for Methyltriacetoxysilane component.
Irritation effects:	May cause slight irritation by inhalation. May cause eye and skin irritation.
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:	No Data
12.2 Persistence and Degradability:	No Data.
12.3 Bioaccumulative Potential:	no data available

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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: None.

14.2 UN Proper Shipping Name: None.

14.3 Transport Hazard Class(es): None.

14.4 Packing Group: None.

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: Not regulated goods.

14.8 Information for each of the UN Model Regulations: None.

IMDG/IMO: Not regulated goods

ADR: Not regulated goods

Air transport

ICAO/IATA-DGR Class: UN/ID-No.: none PG:

Technical name of material:

Remarks: Not regulated for transport by air.

Additional information: (US) DOT: Not dangerous goods

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: Methyltriacetoxysilane (CAS No. 4253-34-3; EC No. 224-221-9)
Ethyltriacetoxysilane (CAS No. 17689-77-9; EC No. 241-667-4)

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: 1; 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.
