

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 Diamond Saver™**

Product codes: 70800, 71022, 71700.

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

Use: To lubricate and protect diamond coated cutting wheels.

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):

Harmful if swallowed (H302)

Harmful to aquatic life with long lasting effects (H412) – chronic Cat. 3

2.2 GHS Label elements (EC) 1272/2008:



Pictogram(s): “Exclamation Point” (GHS07)

Signal Word: Warning

Contains: Sodium Nitrite
Organic phosphate ester, free acid
Sodium Hydroxide (to neutralize pH)

Hazard Statement(s): Harmful if swallowed (H302)
Harmful to aquatic life with long lasting effects (H412)

Precautionary Statement(s): Avoid breathing mists (P261). Wash thoroughly after handling (P264). Do not eat, drink or smoke when using this product (P270). Contaminated work clothing should not be allowed out of the workplace (P272). Avoid release to the environment (P273). 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 or rash occurs: get medical advice (P333+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 eye and skin irritation. See section 3.2 for individual properties of reactants.

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3. Composition / information on ingredients

3.1 Substance:

Chemical name:

CAS-Reg.No:

EC-No:

EINECS-No:

Further information:

3.2 Mixture:

Description: Mix of pH neutralized phosphates and antioxidants in water.

Chemical name: Sodium Nitrite

Synonym: No data

CAS-Reg.No: 7632-00-0

EC-No: 231-555-9

EINECS-No: 007-010-00-4

Hazards: Ox. Solid 3 (H272); Acute Tox. 3 (H301); Eye Irrit. 2A (H319); Aquatic Acute 1 (H400).

Concentration: 2%

Chemical name: Organic phosphate ester, free acid

Synonym: Polyoxyethylene Tridecyl Ether Phosphate

CAS-Reg.No: 9046-01-9

EC-No: No data

EINECS-No:

Hazards: Skin Corr. 1C (H314); Eye damage 1 (H318); Aquatic Chronic 2 (H411).

Concentration: 10%

pH neutralized by

Chemical name: Sodium Hydroxide

Synonym: Caustic soda

CAS-Reg.No: 1310-73-2

EC-No: 215-185-5

EINECS-No: 011-002-00-6

Hazards: Skin Corr. 1A (H314); Eye damage 1 (H318)

Concentration: less than 20%

Ingredients at concentrations not known to be hazardous:

Content: 70%

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	:	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	:	Harmful if swallowed (H302). If swallowed, call a poison center or physician if you feel unwell (P301+P312). Rinse mouth with water (P330).

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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, 2.3 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:

May cause eye and skin irritation. Decomposes to give oxides of carbon, nitrogen, sodium, phosphorus and sulfur.

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).

6.2 Environmental precautions :

Avoid release to the environment (P273). 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:

Avoid release to the environment (P273). 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

7. Handling and storage

7.1 Precautions for Safe Handling:

Wear eye protection (P 280). Wash thoroughly after handling (P264). 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, strong acids and bases.

7.3 Specific End Use:

To lubricate and protect diamond coated cutting wheels.

8. Exposure controls and personal protection

8.1 Control parameters:

Contains: Organic phosphate ester, free acid US OSHA TWA 1 mg/m³; STEL 3 mg/m³.

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

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Hand protection	:	chemicals. Ventilation: Local mechanical exhaust is recommended. 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.

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) : no data

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 : 7

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 : None Known

10.5 Incompatible materials : Avoid oxidizing and reducing agents, strong acids and strong bases.

10.6 Hazardous decomposition products : Decomposes to give oxides of carbon, nitrogen, sodium, phosphorus and sulfur.

11. Toxicological information

11.1 Information on toxicological effects:

Acute toxicity: Harmful if swallowed (H302).

Specific symptoms in animal experiments: Oral LD50 > 2g/kg (rat) is typical for Organic phosphate ester, free Acid component.

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

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Sensitization: No data

Subacute to chronic toxicity: No data

Carcinogenicity, mutagenicity, teratogenicity:

NTP? No

IARC Monographs? No

OSHA Regulated? No

11.2 Other information: Sodium nitrite is suspected of causing cancer by ingestion. Overexposure may cause redness and irritation.

12. Ecological Information

12.1 Toxicity: Harmful to aquatic life with long lasting effects (H412). For Organic phosphate ester, free Acid component, LC50 10 mg/L – 96 hr brachydanio rerio (fish).

12.2 Persistence and Degradability: Harmful to aquatic life with long lasting effects (H412).

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: UN3082

14.2 UN Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S. (contains polyoxyethylene tridecyl ether phosphates)

14.3 Transport Hazard Class(es): 9

14.4 Packing Group: III

14.5 Environmental Hazards: Harmful to aquatic life with long lasting effects (H412).

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: 9	UN/ID-No.: UN3082	PG: III
Technical name of material:	Environmentally hazardous substance, liquid, N.O.S. (contains polyoxyethylene tridecyl ether phosphates)		
Remarks:	Contains polyoxyethylene tridecyl ether phosphates		

Additional information: (US) DOT: UN3083 Environmentally hazardous substance, liquid, N.O.S.

15. Regulatory Information

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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 "Harmful if swallowed" (H302); "Harmful to aquatic life with long lasting effects" (H412).
Contains: Organic phosphate ester, free acid (CAS No. 9046-01-9);
Sodium Hydroxide (CAS No. 1310-73-2; EC No. 215-185-5)
Sodium Nitrite (CAS No. 7632-73-2; EC No.231-555-9)

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:
Sodium Nitrite.

Warning: These products may contain a chemical (Acetaldehyde) 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; it does not purport to be all inclusive and shall be used only as a guide. 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.