

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: 1 July, 2019

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

1.1 Product identifier(s): **BPI HTF-90™**

Product code(s): 70300, 65900.

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

Use: Heat transfer fluid in double boiler tint heating units.

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).

May cause damage to organs (blood) through prolonged or repeated exposure (H373).

May cause an allergic skin reaction (H317).

Harmful to aquatic life with long lasting effects (H412).

2.2 GHS Label elements (EC) 1272/2008:

Pictogram(s):  "Health Hazard" (GHS08)  GHS07 ("Exclamation Point")

Signal Word: Warning!

Contains: Polyalkylene Glycol Monobutyl Ether
N-1-Naphthylaniline.

Hazard Statement(s): Harmful if swallowed (H302).
May cause damage to organs (blood) through prolonged or repeated exposure (H373).
May cause an allergic skin reaction (H317).
Harmful to aquatic life with long lasting effects (H412).

Precautionary Statement(s): Obtain special instructions before use (P 201). Do not handle until safety precautions have been read and understood (P 202). Read SDS. Do not breathe vapors (P260). Wash thoroughly after handling (P264). Do not eat, drink or smoke when using this product (P270). Avoid release to the environment (P273). Wash contaminated clothing before reuse (P363). Wear protective gloves and eye protection (P 280). Use personal protective equipment as required (P281). 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). Collect spillage

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(P391). Dispose of contents/container in accordance with local / national / international regulations (P501).

2.3 Inhalation of vapors at high temperatures may be irritating.

3. Composition / information on ingredients

3.1 Substance:

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

3.2 Mixture:

Description: High Molecular Weight Glycol Ether mix (>95%) with Antioxidant (<5%).

Chemical name: Polyalkylene Glycol Monobutyl Ether
Synonym: Not available
CAS-Reg.No: 9038-95-3
EC-No: 618-542-7
EINECS-No:
Hazards: Acute Tox 4 (H302).
Concentration: greater than 95%

Chemical name: N-1-Naphthylaniline.
Synonym: Not available
CAS-Reg.No: 90-30-2
EC-No: 201-983-0
EINECS-No:
Hazards: Acute Tox 4 (H302); Skin Sens. 1 (H317); STOT RE 2 (blood system) (H373); Aquatic Acute 1 (H400); Aquatic Chronic 1 (H410).
Concentration: less than 2.4%

Further information: (P281) Avoid breathing vapors. (P264) Wash thoroughly after handling.
(P273) Avoid release to the environment.

4. First-aid measures

4.1 Description of first aid measures

General Advice	:	Do not eat, drink or smoke when using this product (P270). Do not breathe vapors (P260). If exposed or concerned, get medical advice/attention (P308+313). Show this safety data sheet to the doctor.
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 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	:	If swallowed, call a poison center or physician if you feel unwell (P301+P312). Rinse mouth. Show the container, safety data sheet or label.

4.2 Most important symptoms and effects, both acute and delayed

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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: Dry chemical, carbon dioxide, foam.
Unsuitable extinguishing media: Water fog, water stream: do not spray on hot liquid.
- 5.2 Special hazards arising from the substance or mixture:
Inhalation of vapors at high temperatures may be irritating. Decomposing may produce oxides of carbon. May evolve traces of ethylene and propylene oxides.
- 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: Wash thoroughly after handling (P264). Do not eat, smoke or drink when using this product (P270). Wash contaminated clothing before reuse (P363). Avoid eye or skin contact. Do not swallow. Wear impervious gloves (such as disposable latex) and splash-proof chemical goggles. For major spills wear a CEN approved respirator for organic vapors.
- 6.2 Environmental precautions: Soak up all spills with inert absorbent material. Place in a closed container for proper waste disposal. Harmful to aquatic life with long lasting effects (H412). Avoid release to the environment (P273).
- 6.3 Methods and materials for containment and cleaning up: Collect spillage. Soak up all spills with inert absorbent material (P391). 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: 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). Wash thoroughly after handling (P264). Do not eat, drink or smoke when using this product (P270). Use only with appropriate equipment. Do not use a hot plate or open flame. Avoid eye and skin contact. Eye washes and safety showers are strongly recommended. Dispose of material properly if significant darkening or thickening occurs.
- 7.2 Conditions for Safe Storage, including any incompatibilities: Stable on storage under normal conditions. Prolonged heating at > 150° C may lead to slow decomposition. Avoid oxidizing and reducing agents, strong acids and strong bases, materials reactive to hydroxyl groups.
- 7.3 Specific End Use: Heat transfer fluid in double boiler tint heating units.

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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. Wear appropriate safety equipment. Wash thoroughly after handling (P264).

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.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:

Colour: Colorless to slight yellow/brown liquid.

Odour: Slight odor

Changes in physical state

Boiling point/Boiling range (°C) : > 200° C (decomposes > 288° C)

Melting point (°C) : - 18° C

Freezing temperature (°C) : no data

Flash point (°C) : > 218° C (PMCC)

Ignition temperature (°C) : no data

Autoignition : 400° C

Explosion hazard : None known

Explosion limits (Vol.-%) : lower: no data upper: no data

Vapour pressure (mbar) : < 0.02

Vapor density (g/cm³) : > .0013

Bulk density (kg/m³) : 1038

Solubility in water : Soluble

Solubility in other solvents : no data

pH-value : no data

Viscosity : ~50 cSt

9.2 Other safety information : VOC 0.00 gm/l

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, materials reactive to hydroxyl groups.
- 10.6 Hazardous decomposition products : Decomposing may produce oxides of carbon. May evolve traces of ethylene and propylene oxides.
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11. Toxicological information

11.1 Information on toxicological effects:

Acute toxicity:	May cause damage to organs (blood) through prolonged or repeated exposure (H373).
Specific symptoms in animal experiments:	LD50 Oral-Rat-over7g/kg estimated.
Irritation effects:	Eye and skin contact may cause redness and irritation. (P333+313) If irritation or rash occurs, get medical advice.
Sensitization:	May cause an allergic skin reaction (H317). If skin irritation or rash occurs: get medical advice (P333+P313). Overexposure may cause redness and irritation.
Subacute to chronic toxicity:	No data

Carcinogenicity, mutagenicity, teratogenicity:

NTP? Not listed

IARC Monographs? Not listed

OSHA Regulated? Not listed

11.2 Other information:	Inhalation of vapors at high temperatures may be irritating. May aggravate existing skin or pulmonary conditions. Sensitization may occur with possible allergic reaction.
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12. Ecological Information

12.1 Toxicity:	Due to hazardous component: (H412) Harmful to aquatic life with long lasting effects. Tested marine LC50 of mixture 55 mg/l –96hr (Pimephales Promelas).
12.2 Persistence and Degradability:	Moderate biodegradation, BOD 20 or BOD 28/ThOD between 10% and 40%.
12.3 Bioaccumulative Potential:	No bioconcentration is expected because of the relatively high water solubility.
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). Avoid release to the environment (P273).
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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:	N-1-Naphthylaniline component (less than 2.4%) is a marine pollutant: (H412) Harmful to aquatic life with long lasting effects. (Cat. 3).
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: None.
IMDG/IMO: See above
ADR: See above

Air transport

ICAO/IATA-DGR Class: UN/ID-No.: none PG:
Technical name of material:
Remarks: Not regulated for transport.

Additional information: (US) DOT: Not regulated for transport.

15. Regulatory Information

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

15.2 Chemical Safety Assessment : Warning! ; "Exclamation Point" (GHS07)
"Health Hazard" (GHS08).

Contains: Polyalkylene Glycol Monobutyl Ether
N-1-Naphthylaniline

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 a chemical known to the State of California to cause cancer.

German Water Hazard Class WGK 1.

16. Other Information

NFPA Codes: H: 1; 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.