

Brain Power Inc.

Safety Data Sheet according to EC 1907/2006, 1272/2008, 453/2010

OSHA Hazard Communication Standard 29 CFR 1910.1200. GHS Rev

Date of Issue: 18 November, 2014

1. Substance / preparation and company identification

- 1.1 Product name: BPI HTF-90™
Product codes: 70300, 65900
- 1.2 Product use: Heat transfer fluid in double boiler tint heating units.
- 1.3 Company: Brain Power Inc.; 4470 S.W. 74th Ave.; Miami, Florida ; USA 33155
- 1.4 Telephone: 0013052644465 Fax: 0013052641467
Information department: 001 305 264 4465
Emergency contact: 001 305 264 4465 (x364)

2. Hazards Identification

- 2.1 Hazardous ingredients: N-1-Naphthylaniline (CAS No 90-30-2; EC No. 201-983-0)
- 2.2 Hazard Symbols: GHS07 ("Exclamation Point")



- Hazard Statement: Warning! (H302) Harmful if swallowed. (H317) May cause an allergic skin reaction.
(H412) Harmful to aquatic life with long lasting effects.
- 2.3 Inhalation of vapors at high temperatures may be irritating.

3. Composition / information on ingredients

- 3.1 Chemical nature (substance): N/A
- 3.2 Chemical nature (preparation):
Description: High Molecular Weight Glycol Ether mix (>95%) with Antioxidant (<5%)
Hazardous ingredients: N-1-Naphthylaniline (CAS No 90-30-2; EC No. 201-983-0).
- | CAS-Reg.No.: | Chemical name: | Content: | Unit: |
|--------------------------|--|--------------|-----------|
| 90-30-2 | N-1-Naphthylaniline | less than 5% | by weight |
| Hazard Symbols:
GHS07 | Risk phrases:
(H302) Harmful if swallowed. (H317) May cause an allergic skin reaction.
(H412) Harmful to aquatic life with long lasting effects. | | |
| Further information: | (P281) Avoid breathing vapors. (P264) Wash thoroughly after handling.
(P273) Avoid release to the environment. | | |

4. First-aid measures

- General Advice : (P270) Do not eat, drink or smoke when using this product. (P261) Avoid breathing vapors.
- Inhalation : Move to fresh air.
- Skin contact : (P302+P352) If on skin: wash with plenty of soap and water. Flush exposed area well with water for at least 15 minutes. (P333+P313) If skin irritation or rash occurs: get medical advice.
- Eye contact : Flush exposed area well with water for at least 15 minutes. If irritation persists seek medical advice.
- Ingestion : (P301+312) If swallowed: call a physician if you feel unwell. (P330) Rinse mouth. Show the container / safety data sheet.
- Information for the doctor: See section 3.2

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5. Fire-fighting measures

- 5.1 Suitable extinguishing media : Dry chemical, carbon dioxide, foam.
Unsuitable extinguishing media: Water fog, do not spray on hot liquid
- 5.2 Exposure hazards : Inhalation of vapors at high temperatures may be irritating.
- 5.3 Protective equipment/advice for fire-fighters : Wear self-contained breathing apparatus with face-shield and protective clothing to avoid personal contact.
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6. Accidental release measures

- 6.1 Personal precautions : (P264) Wash thoroughly after handling. (P270) Do not eat, smoke or drink when using this product. (P363) Wash contaminated clothing before reuse.. Avoid eye or skin contact. Do not swallow. Wear impervious gloves (such as disposable latex) and splash-proof chemical goggles. For major spills wear an 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. (H412) Harmful to aquatic life with long lasting effects. (P273) Avoid release to the environment.
- 6.3 Methods for cleaning up : (P391) Collect spillage. Soak up all spills with inert absorbent material. Place in closed container for proper waste disposal.
- 6.4 References to other sections : See Sections 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). Keep out of reach of children. Use only with appropriate equipment. Use only in a double-boiler system designed for lens tinting. Avoid open flame, spark or hot plate. Avoid inhalation, eye and skin contact. Do not Swallow. Wash well after use. Eye washes and safety showers are strongly recommended. Dispose of material properly if significant darkening or thickening occurs.
- 7.2 Conditions for Safe Storage: Stable on storage under normal conditions. Prolonged heating at > 150° C may lead to slow decomposition.
- 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 Technical protective measure : Ventilation: Local exhaust is recommended.
Mechanical is acceptable.
- 8.2 Exposure control limits :
Personal protective equipment : (P280) Wear protective gloves, clothing and eye protection.
Respiratory protection : CEN approved respirator for organic vapour
Hand protection : Gloves (disposable latex) are strongly recommended.

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Eye protection : is strongly recommended.
Skin protection : Protective lab coat recommended.
General safety and hygiene measures: Avoid all personal contact. Wear appropriate safety equipment. (P264) Wash thoroughly after handling.

9. 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)
Melting point (°C) : - 18° C
Freezing temperature (°C) : no data
Flash point (°C) : > 218° C (PMCC)
Ignition temperature (°C) : no data
Autoignition : no data
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) : 1040
Solubility in water : Soluble
Solubility in other solvents : no data
pH-value : no data
Viscosity : no data
Additional 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 Possible 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.

11. Toxicological information

Acute toxicity : Toxicity by ingestion not well documented. Estimated Dermal LD50 Rabbit >2000 mg/kg
Specific symptoms in animal experiments:
Irritation effects : Eye and skin contact may cause redness and irritation. (P333+313) If irritation or rash occurs, get medical advice.
Sensitization: (H317) May cause an allergic skin reaction. (P333+313) If irritation or rash occurs, get medical advice.
Subacute to chronic toxicity: no data

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Carcinogenicity, mutagenicity, teratogenicity:	NTP? Not listed. IARC Monographs? Not listed. OSHA Regulated? Not listed.
Information from practical experience:	Inhalation of vapors at high temperatures may be irritating.
Additional information:	May aggravate existing skin or pulmonary conditions.

12. Ecological Information

12.1 Ecotoxicity:	Due to hazardous component: (H412) Harmful to aquatic life with long lasting effects. Tested marine LC50 of mixture 10-100 mg/l .
12.2 Persistence and Degradability:	Moderate biodegradation, BOD 20 or BOD28/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).
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14. Transport Information

Land transport:

ARD/RID	Class:	Subclass:
Warning sign	Hazard-No.:	UN-No.: none
Name of material:		
Remarks:	Not listed by UN as dangerous goods for transport.	

Inland ship transport:

ADN/ADNR	Class:	Subclass:
Category:		
Name of material:		
Remarks:	Not listed by UN as dangerous goods for transport. (H412) Harmful to aquatic life with long lasting effects. (Cat. 3)	

Sea transport:

IMDG: Not regulated	Class:	UN-No.: none	PG:
EmS:	MFAG:		

Marine pollutant: (H412) Harmful to aquatic life with long lasting effects. (Cat. 3)
Technical name of material: BPI HTF-90
Remarks: Not regulated as dangerous goods for transport.

Air transport

ICAO/IATA-DGR	Class:	UN/ID-No.: none	PG:
Technical name of material: BPI HTF-90			
Remarks:	Not regulated as dangerous goods for transport.		

Additional information:

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15. Regulatory Information

15.1 Safety, Health and Environmental Regulations /

Legislation Specific for the Mixture : EC 1907/2006, 1272/2008, 453/2010

15.2 Chemical Safety Assessment : Warning! "Exclamation Point" (GHS07)

Contains: N-1-Naphthylaniline (CAS No. 90-30-2; EC No. 201-983-0).

Hazard Statement: (H302) Harmful if swallowed. (H317) May cause an allergic skin reaction. (H412) Harmful to aquatic life with long lasting effects.

Precautions: (P261) Avoid breathing vapors. (P264) Wash thoroughly after handling. (P270) Do not eat, drink or smoke when using this product. (P273) Avoid release to the environment. (P280) Wear protective gloves, clothing and eye protection. (P301+312) If swallowed: call a physician if you feel unwell. (P330) Rinse mouth. (P302+352) If on skin: wash with plenty of soap and water. (P333+313) If irritation or rash occur: get medical advice. (P363) Wash contaminated clothing before reuse. (P391) Collect spillage. (P501).Dispose of contents/container in accordance with local / national / international regulations

16. Other Information

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.