Brain Power Inc.

Safety Data Sheet according to EC 1907/2006, 1272/2008, 453/2010
Date of Issue: 18 November, 2013

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1. Substance / preparation and company identification

1.1 Product name: BPI Molecular Catalytic Dyes

Product codes: 20100, 20800, 21600, 21800, 22100, 25100, 25800, 26600, 26800, 27100, 29204, 30600, 31500, 32500, 37623/37870, 44908, 45100, 45400, 45500, 45900, 46200, 47600, 47900, 48000, 48400, 48700.

1.2 Product Use: Impart tint to plastic eyeglass lenses

1.3 Company: Brain Power Inc.; 4470 S.W. 74th Ave.; Miami, Florida ; USA 33155.
1.4 Telephone: 0013052644465 Fax: 0013052641467
Information department: 0013052644465
Emergency contact: 0013052644465

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2. Hazards identification

2.1 Hazardous ingredients: C.I. Disperse Yellow 3 dye (CAS No. 2832-40-8; EC Index No. 611-055-00-0)

9,10-anthracenedione, 1,4-diamino-, N,N'-mixed (CAS No. 2475-46-9; EC No. 219-604-2)

Content: 1%-3% Unit: % by weight

2.2 Hazard Symbols: "Health Hazard" (GHS08) and "Exclamation Point" (GHS07)

Hazard Statement: Warning "Suspected of causing cancer" (H351) ; "May cause an allergic skin reaction" (H317) ; "Harmful if swallowed"(H302); "Causes serious eye irritation" (H319).

2.3 C. I. Disperse Yellow 3 has been found to produce tumors in feeding studies with laboratory animals. Dyes may cause sensitization by skin contact; may cause slight irritation by inhalation; may cause eye and skin irritation. Oral LD50 ~ 2g/kg (rat) is typical for disperse dye components.

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3. Composition / information on ingredients

3.1 Chemical nature (substance):
CAS-Reg.No: Chemical name:
EC-No: EINECS-No:
Further information:

3.2 Chemical nature (mixture):
Description: Mix of AZO and ANTHRAQUINONE disperse dyes with surfactants in water

Hazardous ingredients:
C.I. Disperse Yellow 3 dye (CAS No. 2832-40-8; EC No. 220-600-8)
Hazardous Chemical name: N-[4-[(2-hydroxy-5-methylphenyl)azo]phenyl]acetamide
Content: 1%-2% Unit: % by weight

9,10-anthracenedione, 1,4-diamino-, N,N'-mixed (CAS No. 2475-46-9; EC No. 219-604-2)
Hazardous Chemical name: 9,10-anthracenedione, 1,4-diamino-, N,N'-mixed
Content: 0%-3% Unit: % by weight

Maximum Total Disperse Dye concentration:
Content: 3%

Ingredients at concentrations not known to be hazardous:
Content: 97% - 99%
Further information: Other ingredients not at concentrations known to be hazardous. Not all components are in all dyes.

4. 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+313).
Inhalation	:	Avoid breathing mists (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 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). Show the container, safety data sheet or label.
Information for the doctor:		

5. Fire-fighting measures

5.1 Suitable extinguishing media : Unsuitable extinguishing media:	Water fog, dry chemical, carbon dioxide, foam
5.2 Exposure hazards:	May cause allergic skin reaction (H317)
5.3 Protective equipment / advice for fire-fighters:	Wear self-contained breathing apparatus with protective clothing to avoid personal contact.

6. Accidental release measures

6.1 Personal precautions	:	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). Contaminated work clothing should not be allowed out of the workplace (P272).
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
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 mists (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:	Stable on storage under normal conditions. Avoid oxidizing and reducing agents, strong acids and bases.

7.3 Specific End Use:	Impart Tint to Plastic Eyeglass Lenses.

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	:	
Respiratory protection	:	Where risk assessment shows air purifying respirators are appropriate, use a NIOSH or CEN approved respirator for organic chemicals.
Hand protection	:	Wear protective gloves (P280). Wear suitable impervious gloves (such as disposable latex).
Eye protection	:	Wear eye protection (P280).Chemical resistant safety goggles are strongly recommended.
Skin protection	:	Protective lab coat recommended. Wear suitable protective clothing and gloves.
General safety and hygiene measures:		Avoid all personal contact. Wear appropriate safety equipment. Wash well after use.

9. Physical and chemical properties

Appearance:			
Colour:			Colored liquid
Odour:			Slight odor
Changes in physical state			
Boiling point/Boiling range (°C)		:	> 100°C (212F)
Melting point/Freezing temperature (°C):			< 0°C (32F)
Flash point	(°C)	:	> 100°C (212F)
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)	:	Due to water.
Vapor density	(g/cm3)	:	Due to water
Bulk density	(kg/m3)	:	~1000 kg/m3
Solubility in water		:	Miscible
Solubility in other solvents		:	no data available
pH-value		:	7-8
Viscosity		:	no data available
Additional information		:	

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.
10.6 Hazardous decomposition products	:	Decomposes to oxides of carbon, nitrogen and/or sulphur.

11. Toxicological information

Acute toxicity	:	Harmful if swallowed (H302).

Specific symptoms in animal experiments:		Oral LD50~2g/kg (rat) is typical. Disperse Yellow 3 has been found to produce tumors in feeding studies with laboratory animals.
Irritation effects	:	May cause slight irritation by inhalation. Causes serious eye irritation (H319). If eye irritation persists, get medical advice. (P337+P313). If skin irritation or rash occurs: get medical advice (P333+P313).
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:		May aggravate existing skin condition.

Carcinogenicity, mutagenicity, teratogenicity:

NTP? No
IARC Monographs? Not classifiable as to carcinogenicity to humans.
OSHA Regulated? No
Information from practical experience:
Additional information: Overexposure may cause redness and irritation.
Sensitization may occur with possible allergic reaction.

12. Ecological Information

12.1 Ecotoxicity:	Disperse Yellow 3 LC50 Pimephales promelas (fathead minnow) >180 mg/l – 96 hr
12.2 Persistance and Degradability:	Degrades under anaerobic conditions followed by aerobic conditions.
12.3 Bioaccumulative Potential:	no data available
12.4 Mobility in Soil:	no data available
12.5 Results of PBT and vPvP Assessmant:	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

Land transport:
ADR/RID Class: Subclass:
Warning sign Hazard-No.: UN-No.: none
Name of material:
Remarks: Not dangerous goods

Inland ship transport:
ADN/ADNR Class: Subclass:
Category:
Name of material:
Remarks: Not dangerous goods

Sea transport:
IMDG: Class: UN-No.: none PG:
EmS: MFAG:
Marine pollutant:
Technical name of material:
Remarks: Not dangerous 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:

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 : "Health Hazard" (GHS08) and "Exclamation Point" (GHS07).

Contains: C.I. Disperse Yellow 3 dye ; 9,10-anthracenedione, 1,4-diamino-, N,N'-mixed

Hazard Statement: Warning "Suspected of causing cancer" (H351) ; "May cause an allergic skin reaction" (H317) ; "Harmful if swallowed"(H302); "Causes serious eye irritation" (H319).

Precautions: 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). 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). 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).

15.3 Warning: These products contain a chemical (C.I. Disperse Yellow 3) known to the State of California to cause cancer.

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.

Brain Power Inc.
Safety Data Sheet according to EC 1907/2006, 1272/2008, 453/2010
Date of Issue: 18 November, 2013

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1. Substance / preparation and company identification

1.1 Product name: BPI Molecular Catalytic Dyes

Product codes: ALL LIQUID DYES EXCEPT : 20100, 20800, 21600, 21800, 22100, 25100, 25800, 26600, 26800, 27100, 29204, 30600, 31500, 32500, 37623/37870, 44908, 45100, 45400, 45500, 45900, 46200, 47600, 47900, 48000, 48400, 48700.

1.2 Product Use: Impart tint to plastic eyeglass lenses

1.3 Company: Brain Power Inc.; 4470 S.W. 74th Ave.; Miami, Florida ; USA 33155.
1.4 Telephone: 0013052644465 Fax: 0013052641467
Information department: 0013052644465
Emergency contact: 0013052644465

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2. Hazards identification

2.1 Hazardous ingredients: C.I. Disperse Yellow 3 dye (CAS No. 2832-40-8; EC Index No. 611-055-00-0)

9,10-anthracenedione, 1,4-diamino-, N,N'-mixed (CAS No. 2475-46-9; EC No. 219-604-2)

Content: 0%-3% Unit: % by weight

2.2 Hazard Symbols: "Exclamation Point" (GHS07)

Hazard Statement: Warning "May cause an allergic skin reaction" (H317) ; "Harmful if swallowed"(H302); "Causes serious eye irritation" (H319).

2.3 C. I. Disperse Yellow 3 has been found to produce tumors in feeding studies with laboratory animals. Dyes may cause sensitization by skin contact; may cause slight irritation by inhalation; may cause eye and skin irritation. Oral LD50 ~ 2g/kg (rat) is typical for disperse dye components.

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3. Composition / information on ingredients

3.1 Chemical nature (substance):
CAS-Reg.No: Chemical name:
EC-No: EINECS-No:
Further information:

3.2 Chemical nature (mixture):
Description: Mix of AZO and ANTHRAQUINONE disperse dyes with surfactants in water

Hazardous ingredients:
C.I. Disperse Yellow 3 dye (CAS No. 2832-40-8; EC No. 220-600-8)
Hazardous Chemical name: N-[4-[(2-hydroxy-5-methylphenyl)azo]phenyl]acetamide
Content: 0%-0.99% Unit: % by weight

9,10-anthracenedione, 1,4-diamino-, N,N'-mixed (CAS No. 2475-46-9; EC No. 219-604-2)
Hazardous Chemical name: 9,10-anthracenedione, 1,4-diamino-, N,N'-mixed
Content: 0%-3% Unit: % by weight

Maximum Total Disperse Dye concentration:
Content: 3%

Ingredients at concentrations not known to be hazardous:
Content: 97% - 100%
Further information: Other ingredients not at concentrations known to be hazardous. Not all components are in all dyes.

4. 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+313).
Inhalation	:	Avoid breathing mists (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 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). Show the container, safety data sheet or label.
Information for the doctor:		

5. Fire-fighting measures

5.1 Suitable extinguishing media : Unsuitable extinguishing media:	Water fog, dry chemical, carbon dioxide, foam
5.2 Exposure hazards:	May cause allergic skin reaction (H317)
5.3 Protective equipment / advice for fire-fighters:	Wear self-contained breathing apparatus with protective clothing to avoid personal contact.

6. Accidental release measures

6.1 Personal precautions	:	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). Contaminated work clothing should not be allowed out of the workplace (P272).
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
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 mists (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:	Stable on storage under normal conditions. Avoid oxidizing and reducing agents, strong acids and bases. Store locked up (P405).

7.3 Specific End Use: Impart Tint to Plastic Eyeglass Lenses.

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	:	
Respiratory protection	:	Where risk assessment shows air purifying respirators are appropriate, use a NIOSH or CEN approved respirator for organic chemicals.
Hand protection	:	Wear protective gloves (P280). Wear suitable impervious gloves (such as disposable latex).
Eye protection	:	Wear eye protection (P280).Chemical resistant safety goggles are strongly recommended.
Skin protection	:	Protective lab coat recommended. Wear suitable protective clothing and gloves.
General safety and hygiene measures:		Avoid all personal contact. Wear appropriate safety equipment. Wash well after use.

9. Physical and chemical properties

Appearance:			
Colour:			Colored liquid
Odour:			Slight odor
Changes in physical state			
Boiling point/Boiling range (°C)		:	> 100°C (212F)
Melting point/Freezing temperature (°C):			< 0°C (32F)
Flash point	(°C)	:	> 100°C (212F)
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)	:	Due to water.
Vapor density	(g/cm3)	:	Due to water
Bulk density	(kg/m3)	:	~1000 kg/m3
Solubility in water		:	Miscible
Solubility in other solvents		:	no data available
pH-value		:	7-8
Viscosity		:	no data available
Additional information		:	

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.
10.6 Hazardous decomposition products	:	Decomposes to oxides of carbon, nitrogen and/or sulphur.

11. Toxicological information

Acute toxicity	:	Harmful if swallowed (H302).

Specific symptoms in animal experiments:	Oral LD50~2g/kg (rat) is typical. Disperse Yellow 3 has been found to produce tumors in feeding studies with laboratory animals.
Irritation effects :	May cause slight irritation by inhalation. Causes serious eye irritation (H319). If eye irritation persists, get medical advice. (P337+P313). If skin irritation or rash occurs: get medical advice (P333+P313).
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:	May aggravate existing skin condition.

Carcinogenicity, mutagenicity, teratogenicity:

NTP? No
IARC Monographs? Not classifiable as to carcinogenicity to humans.
OSHA Regulated? No
Information from practical experience:
Additional information: Overexposure may cause redness and irritation. Sensitization may occur with possible allergic reaction.

12. Ecological Information

12.1 Ecotoxicity:	Disperse Yellow 3 LC50 Pimephales promelas (fathead minnow) >180 mg/l – 96 hr
12.2 Persistance and Degradability:	Degrades under anaerobic conditions followed by aerobic conditions.
12.3 Bioaccumulative Potential:	no data available
12.4 Mobility in Soil:	no data available
12.5 Results of PBT and vPvP Assessmant:	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

Land transport:
ADR/RID Class: Subclass:
Warning sign Hazard-No.: UN-No.: none
Name of material:
Remarks: Not dangerous goods

Inland ship transport:
ADN/ADNR Class: Subclass:
Category:
Name of material:
Remarks: Not dangerous goods

Sea transport:
IMDG: Class: UN-No.: none PG:
EmS: MFAG:
Marine pollutant:
Technical name of material:
Remarks: Not dangerous 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:

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 : "Exclamation Point"' (GHS07).
Contains: C.I. Disperse Yellow 3 dye ;
9,10-anthracenedione, 1,4-diamino-, N,N'-mixed

Hazard statement: Warning: May cause an allergic skin reaction (H317) ; Harmful if swallowed (H302). "Causes serious eye irritation" (H319).

Precautions: Obtain special instructions before use (P 201). Do not handle until safety precautions have been read and understood (P 202).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). Wear protective gloves and eye protection (P 280). 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).

15.3 Warning: These products contain a chemical (C.I. Disperse Yellow 3) known to the State of California to cause cancer.

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.