

Brain Power Inc. Safety Data Sheet according to EC 1907/2006, 1272/2008, 542/2017, 878/2020, OSHA Hazard Communication Standard 29 CFR 1910.1200. GHS Revision
Date of Issue: 31 May, 2023

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

1.1 Product identifier: BPI Molecular Catalytic Dyes; BPI Deep Red (Monochrome) 600 Dye; BPI UV-Blue Barrier 440; BPI Blue Barrier 500/525; BPI Blue Barrier 525/550; BPI Diamond Dye 460/510; BPI Diamond Dye 540; BPI Diamond Dye 500/550; BPI Diamond Dye 550/570; BPI EVA Tints; BPI VDT Tints; BPI IR Dyes; BPI Red Out; BPI Sport Tints; BPI UV IR Solar Tints; BPI Filter Vision tints; BPI Total Day; BPI Total Night; BPI Deep Blue Zee; BPI FL-41; Polycarbonate Dye Part A; Acrylic Dye Part A; BPI Turbo Tints; BPI Correction Tints.

Product codes: ALL LIQUID DYES EXCEPT : 20100, 20800, 21600, 21800, 22100, 25100, 25800, 26600, 26800, 27100, 29204, 30600, 31500, 32500, 37623/37870, 37819, 39003, 44908, 45100, 45400, 45500, 45900, 46200, 47600, 47900, 48000, 48400, 48700. (The SDS for these excepted product codes follows this SDS).

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

Use: Impart tint to plastic eyeglass lenses.

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.

Telephone: 0013052644465

Fax: 0013052641467

Information department: 001 305 264 4465

1.4 Emergency Telephone Number:

BPI US Emergency contact: 001 305 264 4465 (x364)

ENGLAND National Poisons Information Service:

- In England and Wales: NHS Direct - 0845 4647;

- In Scotland: NHS 24 - 08454 24 24 24

IRELAND National Poisons Information Centre, 01 8092566 or 01 837996

2. Hazards identification

2.1 Classification of the substance or mixture :

May cause an allergic skin reaction (H317).

2.2 Label elements :



Pictogram(s): "Exclamation Point" (GHS07)

Signal Word: Warning!

Contains:

N-[4-[(2-hydroxy-5-methylphenyl)azo]phenyl]acetamide;
9,10-anthracenedione, 1,4-diamino-, N,N'-mixed;
4-[(4-nitrophenyl)azo]aniline;
4-[[[phenylazo]phenyl]azo]-0-cresol;
4-(phenylazo) benzene-1,3-diamine,
Sodium 2-[methylethylamino]ethane-1-sulphonate,
2-[ethyl[4-[(4-nitrophenyl)azo]phenyl]amino]ethanol
2,2'-[[3-methyl-4-[(4-nitrophenyl)azo]phenyl]imino]bisethanol,
C.I. Disperse Orange 45
propan-2-ol

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Hazard Statement(s):

May cause an allergic skin reaction (H317).

Precautionary Statement(s): Avoid breathing spray (P261). Specific treatment: wash well with soap and water (P321). Wear protective gloves and eye protection (P 280). If on skin: wash with plenty of soap and water (P302+P352). If skin irritation or rash occurs: get medical advice (P333+P313). Dispose of contents/container in accordance with local / national / international regulations (P501).

2.3 Other hazards:

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

3. Composition / information on ingredients

3.1 Substance: Not Applicable

Chemical name:

CAS-Reg.No:

EC-No:EINECS-No:

Further information:

3.2 Mixture:

Description: Mix of AZO and ANTHRAQUINONE disperse dyes with surfactants in water.

Chemical name: Sodium 2-[methylethylamino]ethane-1-sulphonate

Synonym: No data

CAS-Reg.No: 137-20-2

EC-No: 205-285-7

EINECS-No:

Hazards: Eye Irrit. 2 (H319).

Concentration: 1.5-2.5%

Chemical name: 2-[ethyl[4-[(4-nitrophenyl)azo]phenyl]amino]ethanol

Synonym: C.I. Disperse Red 1

CAS-Reg.No: 2872-52-8

EC-No: 220-704-3

EINECS-No:

Hazards: Skin sensitizer 1 (H317); Skin irritant 2 (H315).

Concentration: 0-0.5%

Chemical name: 2,2'-[[3-methyl-4-[(4-nitrophenyl)azo]phenyl]imino]bisethanol

Synonym: C.I. Disperse Red 17

CAS-Reg.No: 3179-89-3

EC-No: 221-665-5

EINECS-No:

Hazards: Acute Tox 4 (H302).

Concentration: 0-2%

Chemical name: N-[4-[(2-hydroxy-5-methylphenyl)azo]phenyl]acetamide

Synonym: C.I. Disperse Yellow 3 dye

CAS-Reg.No: 2832-40-8

EC-No: 220-600-8

EINECS-No: 611-055-00-0

Hazards: Skin sensitizer 1 (H317); Carcinogen 2 (H351).

Concentration: 0% -0.99%

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Chemical name: 4-[[[phenylazo]phenyl]azo]-0-cresol

Synonym: C.I. Disperse Yellow 7 dye

CAS-Reg.No: 6300-37-4

EC-No: 228-587-0

EINECS-No:

Hazards: Eye irritant 2 (H319).; Causes skin irritation (H313); May cause respiratory irritation (H333)..

Concentration: 0% -0.99%

Chemical name: 9,10-anthracenedione, 1,4-diamino-, N,N'-mixed

Synonym: C.I. Disperse Blue 3 dye

CAS-Reg.No: 2475-46-9

EC-No: 219-604-2

EINECS-No:

Hazards: Acute Tox 4 (H302); Skin sensitizer 1 (H317); Eye irritant 2 (H319).

Concentration: 0% -3%

Chemical name: 4-[(4-nitrophenyl)azo]aniline

Synonym: C.I. Disperse Orange 3 dye

CAS-Reg.No: 730-40-5

EC-No: 211-984-8

EINECS-No:

Hazards: Skin sensitizer 1 (H317); Eye irritant 2 (H319).

Concentration: 0% -3%

Chemical name: C.I. Disperse Orange 45

Synonym: no data

CAS-Reg.No: 12223-27-7

EC-No: 602-308-6

EINECS-No:

Hazards: Skin sensitizer 1 (H317).

Concentration: 0%-0.99%

Chemical name: 4-(phenylazo) benzene-1,3-diamine

Synonym: C.I. Solvent Orange 3 dye

CAS-Reg.No: 495-54-5

EC-No: 207-803-7

EINECS-No: 611-151-00-2

Hazards: AcuteTox 4 (H302); Skin irritant 2 (H315); Mutagen 2 (H341); Aquatic Acute 1(H400);Aquatic Chronic 1 (H410).

Concentration: 0%-0.24%

Chemical name: propan-2-ol

Synonym: Isopropyl alcohol

CAS-Reg.No: 67-63-0

EC-No: 200-661-7

EINECS-No:

Hazards: Eye irritant 2 (H319); Highly flammable liquid and vapor (H225); May cause drowsiness or dizziness (H336).

Concentration: 0.5- 1.0%

Maximum Total Disperse Dye concentration: Content: 3%

Ingredients at concentrations not known to be hazardous: Content: 95% - 100%

Further information: Other ingredients not at concentrations known to be hazardous. Not all components are in all dyes.

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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 spray (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).

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:

May cause allergic skin reaction (H317). Decomposes to oxides of carbon, nitrogen and/or sulphur.

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 approved respirator. If on skin: wash with plenty of soap and water (P302+P352).

CEN

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

7. Handling and storage

7.1 Precautions for Safe Handling:

Wear protective gloves (P 280). Use personal protective equipment as required (P281). Avoid breathing dust or spray (P261). If on skin: wash with plenty of soap and water (P302+P352). 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, including any incompatibilities:

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 / 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. 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. |

9. Physical and chemical properties

9.1 Information on basic 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 |

9.2 Other 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 oxides of carbon, nitrogen and/or sulphur. |

11. Toxicological information

11.1 Information on hazard classes as defined in (EC) No. 1272/2008 :

Acute toxicity: Oral LD50~2g/kg (rat) is typical for disperse dye component.

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Specific symptoms in animal experiments: Oral LD50~2g/kg (rat) is typical for disperse dye component. Disperse Yellow 3 has been found to produce tumors in feeding studies with laboratory animals.

Irritation effects: May cause slight irritation by inhalation. May cause serious eye irritation . If eye irritation persists, get medical advice . 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

11.2 Information on other hazards: Overexposure may cause redness and irritation.
Sensitization may occur with possible allergic reaction.

12. Ecological Information

12.1 Toxicity: Disperse Yellow 3 LC50 Pimephales promelas (fathead minnow) >180 mg/l – 96 hr; Solvent Orange 3 LC50 Oryzias Latipes: 0.3 mg/l - 48 hr.

12.2 Persistence 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 Assessment: no data available

12.6 Endocrine disrupting properties: no data available

12.7 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 or ID 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 Marine transport in bulk according to IMO instruments: Not regulated goods.

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

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15. Regulatory Information

15.1 Safety, Health and Environmental Regulations / Legislation Specific for the Substance or Mixture:
CE 1907/2006, 1272/2008, 878/2020

15.2 Chemical Safety Assessment : Warning! ; "Exclamation Point" (GHS07).
Contains: C.I. Disperse Yellow 3 dye ;
C.I. Disperse Blue 3 dye; 9,10-anthracenedione, 1,4-diamino-, N,N'-mixed;
C.I. Disperse Orange 3 dye; 4-[(4-nitrophenyl)azo]aniline
C.I. Solvent Orange 3 dye; 4-(phenylazo) benzene-1,3-diamine
4-[[[phenylazo]phenyl]azo]-0-cresol;
Sodium 2-[methylethylamino]ethane-1-sulphonate,
2-[ethyl[4-[(4-nitrophenyl)azo]phenyl]amino]ethanol
2,2'-[[3-methyl-4-[(4-nitrophenyl)azo]phenyl]imino]bisethanol,
C.I. Disperse Orange 45
propan-2-ol

Hazard statement: See section 2

Precautions: See section 2

Additional information:

EC listed ingredients.

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

German Water Hazard Class WGK 1.

16. Other Information

Most Recent Revision: 31 May, 2023

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.

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

1.1 Product identifier: BPI Molecular Catalytic Dyes

Product codes: 20100, 20800, 21600, 21800, 22100, 25100, 25800, 26600, 26800, 27100, 29204, 30600, 31500, 32500, 37623/37870, 37819, 39003, 44908, 45100, 45400, 45500, 45900, 46200, 47600, 47900, 48000, 48400, 48700.

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

Use: Impart tint to plastic eyeglass lenses.

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.

Telephone: 0013052644465

Fax: 0013052641467

Information department: 001 305 264 4465

1.4 Emergency Telephone Number:

BPI US Emergency contact: 001 305 264 4465 (x364)

ENGLAND National Poisons Information Service:

- In England and Wales: NHS Direct - 0845 4647;

- In Scotland: NHS 24 - 08454 24 24 24

IRELAND National Poisons Information Centre, 01 8092566 or 01 837996

2. Hazards identification

2.1 Classification of the substance or mixture :

May cause an allergic skin reaction (H317)

Suspected of causing cancer (H351).

2.2 Label elements :



Pictogram(s): “Health Hazard” (GHS08)



“Exclamation Point” (GHS07)

Signal Word: Warning

Contains:

N-[4-[(2-hydroxy-5-methylphenyl)azo]phenyl]acetamide;
9,10-anthracenedione, 1,4-diamino-, N,N'-mixed.
Sodium 2-[methylethylamino]ethane-1-sulphonate,
2-[ethyl[4-[(4-nitrophenyl)azo]phenyl]amino]ethanol
2,2'-[[3-methyl-4-[(4-nitrophenyl)azo]phenyl]imino]bisethanol,
propan-2-ol

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Hazard Statement(s): Suspected of causing cancer (H351)
May cause an allergic skin reaction (H317).

Precautionary Statement(s): Obtain special instructions before use (P201). Do not handle until precautions have been read and understood (P202). Read SDS. Avoid breathing spray (P261). Wear protective gloves and eye protection (P280). If on skin: wash with plenty of soap and water (P302+P352). If skin irritation or rash occurs: get medical advice (P333+P313). Store locked up (P405). If exposed or concerned: get medical advice (P308+P313). Dispose of contents/container in accordance with local / national / international regulations (P501).

2.3 Other hazards: 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.

3. Composition / information on ingredients

3.1 Substance: Not Applicable

Chemical name:

CAS-Reg.No:

EC-No:

EINECS-No:

Further information:

3.2 Mixture:

Description: Mix of AZO and ANTHRAQUINONE disperse dyes with surfactants in water.

Chemical name: Sodium 2-[methylecoylamino]ethane-1-sulphonate

Synonym: No data

CAS-Reg.No: 137-20-2

EC-No: 205-285-7

EINECS-No:

Hazards: Eye Irrit. 2 (H319).

Concentration: 1.5-2.5%

Chemical name: 2-[ethyl[4-[(4-nitrophenyl)azo]phenyl]amino]ethanol

Synonym: C.I. Disperse Red 1

CAS-Reg.No: 2872-52-8

EC-No: 220-704-3

EINECS-No:

Hazards: Skin sensitizer 1 (H317); Skin irritant 2 (H315).

Concentration: 0-0.5%

Chemical name: 2,2'-[[3-methyl-4-[(4-nitrophenyl)azo]phenyl]imino]bisethanol

Synonym: C.I. Disperse Red 17

CAS-Reg.No: 3179-89-3

EC-No: 221-665-5

EINECS-No:

Hazards: Acute Tox 4 (H302).

Concentration: 0-2%

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Chemical name: N-[4-[(2-hydroxy-5-methylphenyl)azo]phenyl]acetamide
Synonym: C.I. Disperse Yellow 3 dye

CAS-Reg.No: 2832-40-8
EC-No: 220-600-8
EINECS-No: 611-055-00-0
Hazards: Skin sensitizer 1 (H317); Carcinogen 2 (H351).
Concentration: 1% -2%

Chemical name: 9,10-anthracenedione, 1,4-diamino-, N,N'-mixed
Synonym: C.I. Disperse Blue 3 dye
CAS-Reg.No: 2475-46-9
EC-No: 219-604-2
EINECS-No:
Hazards: Acute Tox 4 (H302); Skin sensitizer 1 (H317); Eye irritant 2 (H319).
Concentration: 0% -3%

Chemical name: propan-2-ol
Synonym: Isopropyl alcohol
CAS-Reg.No: 67-63-0
EC-No: 200-661-7
EINECS-No:
Hazards: Eye irritant 2 (H319); Highly flammable liquid and vapor (H225); May cause drowsiness or dizziness (H336).
Concentration: 0.5- 1.0%

Maximum Total Disperse Dye concentration:
Content: 3%

Ingredients at concentrations not known to be hazardous:
Content: 95% - 100%

Further information: Other ingredients not at concentrations known to be hazardous. Not all components are in all dyes.

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 spray (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 | : | If exposed or concerned: get medical advice (P308+P313). Rinse mouth with water. 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:

May cause allergic skin reaction (H317). Decomposes to oxides of carbon, nitrogen and/or sulphur.

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 approved respirator. If on skin: wash with plenty of soap and water (P302+P352).

CEN

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

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 spray (P261). If on skin: wash with plenty of soap and water (P302+P352). 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, including any incompatibilities:

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 / 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 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: | 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 |
| 9.2 Other 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 oxides of carbon, nitrogen and/or sulphur. |

11. Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008::

| | |
|--|--|
| Acute toxicity: | Oral LD50~2g/kg (rat) is typical for disperse dye component. |
| Specific symptoms in animal experiments: | Oral LD50~2g/kg (rat) is typical for disperse dye component. Disperse Yellow 3 has been found to produce tumors in feeding studies with laboratory animals. |
| Irritation effects: | May cause slight irritation by inhalation. May cause serious eye irritation . If eye irritation persists, get medical advice. 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 | |

| | |
|------------------------------------|--|
| 11.2 Information on other hazards: | Overexposure may cause redness and irritation. Sensitization may occur with possible allergic reaction. |
|------------------------------------|--|

Brain Power Inc. Safety Data Sheet according to EC 1907/2006, 1272/2008, 542/2017, 878/2020, OSHA Hazard Communication Standard 29 CFR 1910.1200. GHS Revision
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12. Ecological Information

| | |
|--|--|
| 12.1 Toxicity: | Disperse Yellow 3 LC50 Pimephales promelas (fathead minnow) >180 mg/l – 96 hr |
| 12.2 Persistence 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 Assessment: | no data available |
| 12.6 Endocrine disrupting properties: | no data available |
| 12.7 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 or ID 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 Marine transport in bulk according to IMO instrumentse: | Not regulated goods. | | |
| 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:

CE 1907/2006, 1272/2008, 878/2020

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

Contains: C.I. Disperse Yellow 3 dye: N-[4-[(2-hydroxy-5-methylphenyl)azo]phenyl]acetamide
C.I. Disperse Blue 3 dye: 9,10-anthracenedione, 1,4-diamino-, N,N'-mixed;
Sodium 2-[methylethylamino]ethane-1-sulphonate,;
2-[ethyl[4-[(4-nitrophenyl)azo]phenyl]amino]ethanol;
2,2'-[[3-methyl-4-[(4-nitrophenyl)azo]phenyl]imino]bisethanol,;
propan-2-ol

Hazard statement: See section 2

Precautions: See section 2

Brain Power Inc. Safety Data Sheet according to EC 1907/2006, 1272/2008, 542/2017, 878/2020, OSHA Hazard Communication Standard 29 CFR 1910.1200. GHS Revision
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Additional information:

EC listed ingredients.

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

German Water Hazard Class WGK 1.

16. Other Information

Most Recent Revision: 31 May, 2023

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.