

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: **BPI AR Dry Stripper™**

Product codes: 80908; 80909; 80910.

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

Use: To remove antireflective and other coatings from 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.

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):

Toxic if swallowed (H301)

Causes severe skin burns and eye damage (H314).

2.2 GHS Label elements (EC) 1272/2008:

Pictogram(s):	 Skull and Crossbones (GHS06) (acute toxicity 3) ;	 Corrosion (GHS05) (skin corrosion 1B)
Signal Word:	Danger	
Contains:	Ammonium Bifluoride	
Hazard Statement(s):	Toxic if swallowed (H301) Causes severe skin burns and eye damage (H314).	
Precautionary Statement(s):	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 skin thoroughly after handling (P264). Do not eat, drink or smoke when using this product (P270). If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). Immediately call a POISON CENTER or doctor/physician (P310). If on skin or hair (P303) remove/take off immediately all contaminated clothing (P361), rinse skin with water/shower (P353) and wash contaminated clothing before reuse (P363). If in eyes, rinse cautiously with water for several minutes, remove contact lenses , if present and easy to do, and continue rinsing (P305+P351+P339). If swallowed (P301), rinse mouth (P330), do NOT induce vomiting (P331). Store locked up (P405). Dispose of contents/container in accordance with Local / regional / national / international regulations (P501).	

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2.3 Absorption into the blood of fluoride ions by any route can cause acute systemic poisoning. Material is extremely destructive to tissue of the mucous membranes, upper respiratory tract, eyes and skin.

Note: Once the material is dissolved in water, the airborne dust problems are eliminated.

3. Composition / information on ingredients

3.1 Substance:

Chemical name:

CAS-Reg.No:

EC-No:

EINECS-No:

Further information:

3.2 Mixture:

Description: Inorganic fluorides with surfactant.

Chemical name: Ammonium Bifluoride

Synonym: Ammonium hydrogen difluoride, solid

CAS-Reg.No: 1341-49-7

EC-No: 215-676-4

EINECS-No: 009-009-00-4

Hazards: Acute toxicity 3 (H301); Skin corrosion 1B (H314).

Concentration: 98%

Ingredients at concentrations not known to be hazardous:

Content: 2%

Further information: Other ingredients not at concentrations known to be hazardous

4. First-aid measures

4.1 Description of first aid measures

- General Advice : Avoid all personal contact. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Keep calcium gluconate gel/cream available in case of skin contact.
- Inhalation : Do not breathe dust. If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). Immediately call a POISON CENTER or doctor/physician (P310).
- Skin contact : If on skin or hair (P303) remove/take off immediately all contaminated clothing (P361), rinse skin with water/shower (P353) and wash contaminated clothing before reuse (P363). Specific treatment : rinse exposed area well with water for at least 15 minutes. Massage calcium gluconate gel into the burnt area. (P321). Immediately call a POISON CENTER or doctor/physician (P310). Apply calcium gluconate gel or cream to burn site in order to neutralize acid.
- Eye contact : If in eyes, rinse cautiously with water for several minutes, remove contact lenses , if present and easy to do, and continue rinsing (P305+P351+P339). Immediately call a POISON CENTER or doctor/physician (P310).
- Ingestion : If swallowed (P301), rinse mouth (P330), do NOT induce vomiting (P331). Immediately call a POISON CENTER or a doctor/physician (P310).

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, 4.3 and/or section 11).

4.3 Indications of any immediate medical attention and special treatment needed: See section 2.2 . Absorption into the blood of fluoride ions by any route can cause acute systemic poisoning. Material is extremely destructive to tissue of the mucous membranes, upper respiratory tract, eyes and skin.

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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:

Avoid all contact. Toxic if swallowed (H301). Causes severe skin burns and eye damage (H314)

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 and eye 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. Do not breathe dust.

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 dust or mists (P261). Wash skin 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, including any incompatibilities:

Stable on storage under normal conditions. Avoid oxidizing and reducing agents, glass, metals, strong acids and bases. Store locked up (P405).

7.3 Specific End Use:

To remove antireflective and other coatings from plastic eyeglass lenses.

8. Exposure controls and personal protection

8.1 Control parameters:

(US) OSHA TWA 2.5mg/m³ dust in air.

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 inorganic fluorides. Ventilation: Local mechanical exhaust is recommended.

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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.
General safety and hygiene measures:		Avoid all personal contact. Wear appropriate safety equipment. Wash skin thoroughly after handling (P264). Do not eat drink or smoke when using this product (P270).

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	
Color:	White crystalline powder
Odor:	Very slight odor
Changes in physical state	
Boiling point/Boiling range (°C)	: 240°C (464F)
Melting point/Freezing temperature (°C):	126°C (259F)
Flash point (°C)	: N/D
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)	: N/D
Vapor density (g/cm ³)	: N/D
Bulk density (kg/m ³)	: ~1500 kg/m ³
Solubility in water	: soluble
Solubility in other solvents	: slightly soluble in alcohol
pH-value	: N/D
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	:	Avoid contact with metals – may evolve hydrogen gas.
10.4 Conditions to avoid	:	No Data.
10.5 Incompatible materials	:	Avoid oxidizing and reducing agents, strong acids and strong bases. Avoid contact with glass or metals.
10.6 Hazardous decomposition products	:	Decomposes to ammonia, hydrogen fluoride, fluorine.

11. Toxicological information

11.1 Information on toxicological effects:

Acute toxicity:	Danger! Acute Toxicity 3, toxic if swallowed (H301). Causes severe skin burns and eye damage (H314).
Specific symptoms in animal experiments:	LD50 130 mg/kg oral rat.
Irritation effects:	Acute Toxicity 3, toxic if swallowed (H301). Causes severe skin burns and eye damage (H314). Danger!
Sensitization:	No data
Subacute to chronic toxicity:	Acute Toxicity 3, toxic if swallowed (H301). Causes severe skin burns and eye damage (H314). Danger!

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Carcinogenicity, mutagenicity, teratogenicity: NTP? No data
IARC Monographs? Not classifiable as to carcinogenicity to humans.
OSHA Regulated? Yes. OSHA PEL 2.5 mg/m³ (dust in air).

11.2 Other information: Avoid personal contact.

12. Ecological Information

12.1 Toxicity: No Data.
12.2 Persistence and Degradability: No Data.
12.3 Bioaccumulative potential: No Data.
12.4 Mobility in soil: No Data.
12.5 Results of PBT and vPvP Assessment: No Data.
12.6 Other Adverse Effects: No Data.

13. Disposal considerations

13.1 Waste Treatment Methods: Dispose of contents/container in accordance with Local / regional / national / international regulations (P501).

14. Transport Information

14.1 UN Number: 1727
14.2 UN Proper Shipping Name: Ammonium hydrogen difluoride, solid.
14.3 Transport Hazard Class(es): 8
14.4 Packing Group: II
14.5 Environmental Hazards: No data.
14.6 Special precautions for user: See 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: EMS-No F-A, S-B
ADR: See above.
Air transport
ICAO/IATA-DGR Class: 8 UN/ID-No.: 1727 PG: II
Technical name of material: Ammonium Hydrogendifluoride, solid
Remarks: Toxic; Corrosive; Ltd. Qty. 5 kg, packaging instr. Y844

Additional information: Regulated hazardous material: toxic, corrosive, see above. Limited quantity possible.

15. Regulatory Information

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 : Danger (GHS05) and (GHS06)

Contains: Ammonium Bifluoride

Hazard statement: See section 2

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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.

16. Other Information

16.1 NFPA Codes: H: 3; F: 0; 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