

Items Applicable to SDS # AI-002-BLFR7,BL-FR7_170222

21878-XXXX

UPC#	ITEM#	DESCRIPTION
31550	FX7--BLK	FRIXION BALL DOZEN BOX BLACK
31551	FX7--BLU	FRIXION BALL DOZEN BOX BLUE
31552	FX7--RED	FRIXION BALL DOZEN BOX RED
31553	BFX72BLK	FRIXION BALL 2 PACK BLACK
31554	BFX72BLU	FRIXION BALL 2 PACK BLUE
31556	FX7C3BLK	FRIXION BALL 3 PACK BLK
31557	FX7C3001	FRIXION BALL 3 PACK ASST
31561	FX7--BLK-BC	FRIXION BALL DOZEN BOX BLACK BARCODED
31562	FX7--BLU-BC	FRIXION BALL DOZEN BOX BLUE BARCODED
31563	FX7--RED-BC	FRIXION BALL DOZEN BOX RED BARCODED
31565	FX7C3003	FRIXION BALL 3 PACK ASST
31567	FX7C3BLU	FRIXION BALL BLUE - 3 PACK
31568	FX7C6001	FRIXION BALL 6PK ASST FINE
31569	FX7C8001-P	FRIXION ASSORTED 8 PK POUCH
31570	FX7--PNK-BC	FRIXION BALL DOZEN BOX PINK BARCODED
31571	FX7--ORG-BC	FRIXION BALL DOZEN BOX ORANGE BARCODED
31572	FX7--PPL-BC	FRIXION BALL DOZEN BOX PURPLE BARCODED
31573	FXP5-BLK	FRIXION POINT XF BLK DOZEN BOX
31574	FXP5-BLU	FRIXION POINT BLUE XF DOZEN BOX
31575	FXP5-RED	FRIXION POINT RED XF DOZEN BOX
31576	FXP52BLK	FRIXION POINT 2PK BLK
31577	FXP52BLU	FRIXION POINT 2PK BLU
31578	FXP53BLK	FRIXION POINT 3PK BLK
31579	FXP53001	FRIXION PT 3PK ASST BLK/BLU/RED
31580	FXP53002	FRIXION PT 3PK ASST PNK/PPL/GRN
31583	FXP5-GRN-BC	FRIXION POINT GRN BC DOZEN BOX
31584	FXP5-PPL-BC	FRIXION POINT PPL BC DOZEN BOX
31585	FXP5-PNK-BC	FRIXION POINT PNK BC DOZEN BOX

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31586	FXP5-BLK-BC	FRIXION POINT BLK BC DOZEN BOX
31587	FXP5-BLU-BC	FRIXION POINT BLUE BC DOZEN BOX
31588	FXP5-RED-BC	FRIXION POINT RED BC DOZEN BOX
41755	CS255	FRIXION BALL BLACK 2 PK CLIPSTRIP
46524	FXPC6001-P	FRIXION POINT ASSORTED 6PK POUCH
57064	5764	FRIXION BALL 72 PC BC DISPLAY
57066	5766	FRIXION POINT 72 PC BC DISPLAY
57091	5791	FRIXION ASST 2PK 36 PC COUNTER UNIT
59001	5901	FRIXION BALL ASST FINE PT 48 CT BC TUB
59008	5908	FRIXION BALL BLK F 48CT BC TUB
77320	FX7R2BLK	FRIXION BALL & CLICKER FINE POINT REFILL 2 PACK - BLACK
77321	FX7R2BLU	FRIXION BALL AND CLICKER FINE POINT REFILL 2 PACK - BLUE
77326	FX7R2NVY	FRIXION BALL AND CLICKER FINE POINT REFILL 2 PACK - NAVY
77330	FX7R3BLK	FRIXION BALL AND CLICKER FINE POINT REFILL 3 PACK - BLACK
77331	FX7R3BLU	FRIXION BALL AND CLICKER FINE POINT REFILL 3 PACK - BLUE
77332	FX7R3RED	FRIXION BALL REFILL 3 PACK - RED
77335	FX7R3001	FRIXION BALL REFILL 3 PACK - ASSORTED BLK/BLU/RED
77336	FX7R3002	FRIXION BALL REFILL 3 PACK - ASSORTED PNK/PPL/TRQ
77340	FXPR2BLK	FRIXION POINT EXTRA FINE 2 PACK REFILL - BLACK
77341	FXPR2BLU	FRIXION POINT EXTRA FINE 2 PACK REFILL - BLUE
77343	FXPR3BLK	FRIXION POINT EXTRA FINE 3 PACK REFILL - BLACK
77344	FXPR3BLU	FRIXION POINT EXTRA FINE 3 PACK REFILL - BLUE
77348	FX7P3BLK	FRIXION BALL REFILL 3 PACK POUCH - BLACK
77349	FX7P3BLU	FRIXION BALL REFILL 3 PACK POUCH - BLUE
77350	FX5R3BLK	FRIXION BALL EF REFILL BLK 3 PK
77351	FX5R3BLU	FRIXION BALL EF REFILL BLU 3 PK

Product name : FRIXION ball SDS No.: AI-002

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SAFETY DATA SHEET

Date of Issue : March 1, 2017
 SDS No. : AI-002
 Version : 002

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

This product is a writing instrument to be recognized as Article.

1.1. Identification of the substance or mixture

Product name : FRIXION ball
 Product code : BLFR7-BL-B/R/L/V/O/P-A-N
 BL-FR7-S8N(A)
 BL-FR7-NPBL-W-B
 BL-FR7-NPBL-W-L
 BLS-FR7-BL-B/R/L/V/P
 BLS-FR7-BL-LB-A
 BLSFR7BL-B/L-S3-A

Mixture name : FXP-B/R/L/V/O/P/LB(A)/AG(A)/K

1.2. Use of the mixture : Ink for writing instrument**1.3. Company identification e-mail address**

Name of manufacture /supplier : PILOT Corporation
 Address : 6-21, Kyobashi 2-chome, Chuo-ku, Tokyo, 104-8304, Japan
 Telephone number : 03-3538-3700
 Working hours (from 09.00am to 05.30pm)
 Facsimile number : 03-3538-3909
 E-mail address : international@pilot.co.jp

2. HAZARDS IDENTIFICATION**2.1. GHS Classification of the substance or mixture****Health hazards**

Skin corrosion/irritation : Category 2
 Eye damage/irritation : Category 2
 Sensitization - skin : Category 1

2.2. GHS label elements**Hazard pictograms**

Signal word : Warning

Hazard statements

H315 : Causes skin irritation
 H319 : Causes serious eye irritation
 H317 : May cause an allergic skin reaction

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Precautionary statements**Prevention**

- P280 : Wear protective gloves/eye protection/face protection.
 P264 : Wash hands and face thoroughly after handling.
 P261 : Avoid breathing mist/vapors.
 P272 : Contaminated work clothing should not be allowed out of the workplace.

Response

- P302+P352 : IF ON SKIN: Wash with plenty of soap and water.
 P333+P313 : If skin irritation or rash occurs: Get medical advice/attention.
 P362+P364 : Take off contaminated clothing and wash it before reuse.
 P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337+P313 : If eye irritation persists: Get medical advice/attention.

Disposal

- P501 : Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or mixture : Mixture

Ingredients and composition

Ingredients	CAS Number	Weight %	Component
Triethanolamine	102-71-6	1.0 %	All Colors
Surfactant	Non public	1.0 %	All Colors

4. FIRST AID MEASURES**4.1. Description of first aid measures**

- Inhalation : Remove subject to ventilated fresh air. Consult physician if necessary.
 Ingestion : Refer for medical attention.
 Skin contact : Wash the affected area under tepid running water using a mild soap. And refer for medical attention if irritation continues.
 Eye contact : Gently rinse the affected eyes with clean water for at least 15 minutes. And refer for medical attention if irritation continues.

First aid facilities : Ensure eyewash and water service are available.

4.2. Most important symptoms and effects, both acute and delayed

Ink contact with skin may cause irritation, swelling or redness.

4.3. Indication of any immediate medical attention and special treatment needed

In case of skin or eye contamination treat as under First Aid Measures.

5. FIRE-FIGHTING MEASURES**5.1. Suitable extinguishing media**

: Not classed as flammable.

In case of fire, use water spray, foam, dry, chemical powder or carbon dioxide.

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- 5.2. Specific hazards arising from the substance or mixture
: CO₂, CO, NO_x, and SO_x, is produced after combustion.
- 5.3. Special protective equipment and precautions for fire-fighters
: None

6. ACCIDENTAL RELEASE MEASURES

- 6.1. Personal precautions, protective equipment and emergency procedures
: Use proper ventilation. Use eye and skin protection.
- 6.2. Environmental precautions
: Do not dispose of waste to the sewer.
- 6.3. Methods and material for containment and cleaning up
: Absorb spill with material (cloth or paper), then place in a chemical waste containers.

7. HANDLING AND STORAGE

- 7.1. Precautions for safe handling
: Avoid rough handling or dropping.
Wear protective gloves/protective clothing/eye protection/face protection.
- 7.2. Conditions for safe storage, including any incompatibilities
: Store in a dry, cool, well-ventilated location.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits

Component	Threshold limit values
	ACGIH
Triethanolamine	TLV-TWA 5 mg/m ³

- 8.2. Appropriate engineering controls
: No special controls are needed.
- 8.3. Individual protection measures, such as personal protective equipment.
: Wear protective gloves/protective clothing/eye protection/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- (a) Appearance : Viscosity Liquid
[Color] Black, Red, Blue, Violet, Orange, Pink,
Light Blue, Light Green, Brown
- (b) Odor : Slight characteristic
- (c) Odor threshold : No data
- (d) pH : 7.7-8.7
- (e) Melting point/freezing point : No data
- (f) Initial boiling point/boiling range : About 100 degrees Celsius
- (g) Flash point : Boils without flashing
- (h) Evaporation rate : No data
- (i) Flammability (solid, gas) : None
- (j) Upper/lower flammability or
explosive limits : No data

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(k)	Vapor pressure	: No data
(l)	Vapor density	: No data
(m)	Relative density	: 1.0-1.1 (at 20 degrees Celsius)
(n)	Solubility	: Not applicable
(o)	Partition coefficient: n-octanol/water	: Not available
(p)	Auto-ignition temperature	: No data
(q)	Decomposition temperature	: No data
(r)	Viscosity	: 620-900 mPa·s (at 20 degrees Celsius)
9.2.	Other information	: None

10. STABILITY AND REACTIVITY

10.1.	Reactivity	: This material is stable.
10.2.	Chemical stability	: This material is stable.
10.3.	Possibility of hazardous reactions	: This material is stable.
10.4.	Conditions to avoid	: This material is stable.
10.5.	Incompatible materials	: Strong oxidizing agents and reducing agents.
10.6.	Hazardous decomposition products	: No data

11. TOXICOLOGICAL INFORMATION

There is no data available on the mixture itself.

Information on toxicological effects

Skin corrosion/irritation	: Surfactant	: Category 1
	: Triethanolamine	: Category 2
Eye damage/irritation	: Surfactant	: Category 1
	: Triethanolamine	: Category 2
Sensitization - skin	: Triethanolamine	: Category 1
Specific target organ toxicity (single exposure)	: Triethanolamine	: Category 3

12. ECOLOGICAL INFORMATION

There is no data available on the mixture itself.

12.1. Ecotoxicity

12.1.1. Hazardous to the aquatic environment, short-term (acute)	: Not applicable
12.1.2. Hazardous to the aquatic environment, long-term (chronic)	: Not applicable
12.2. Persistence and degradability	: No data available
12.3. Bioaccumulative potential	: No data available
12.4. Mobility in soil	: No data available
12.5. Other adverse effects	: None

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

- Follow all regulations in your country.

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14. TRANSPORT INFORMATION

14.1. UN number	: Not applicable
14.2. UN proper shipping name	: Not applicable
14.3. Transport hazard class(es)	: Not applicable
14.4. Packing group	: Not applicable
14.5. Environmental hazards	: Not applicable
14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	: Not applicable
14.7. Special precautions for user	: None

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

- Follow all regulations in your country.

16. OTHER INFORMATION

International GHS conformity.

The information here is given in good faith, but no warranty, express or implied, is made.

Final determination of suitability of any material is the sole responsibility of the user.

End of SDS