

Material Safety Data Sheet

FRIXION BALL

Date of issue (ex Japan): 18 November, 2010 – Version 2

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION

1.1	Identification of the substance or preparation	
	Product Name	FRIXION Ball FRIXION Pro FRIXION Clicker FRIXION Slim
	Product Code	BL-FR7-B/R/L/G/V/LB/P/O/LG/BN LFB-20F-B/R/L/G/V/LB/P/O BLS-FR7-B/R/L/G/V/LB/P/O/LG/BN LFBRF-12F-B/R/L/G/V/LB/P/O BL-FRO7 (Frixion Pro) BLRT-FR7 (Frixion Clicker) LFB-15EF-S-EX (Frixion Ball Slim)
	Preparation Name	FXP-B/R/L/G/V/LB/P/O/AG/K
1.2	Use of the preparation	Ink for writing instrument

2. HAZARDS IDENTIFICATION

Symptom of exposure	
Inhalation	Intentional exposure to ink vapors may cause respiratory irritation.
Ingestion	May cause upset stomach.
Skin Contact	Ink contact with skin may cause irritation, swelling or redness. It is not expected to cause an allergic skin reaction.
Eye Contact	Ink contact with eye may be mildly irritating.

3. FIRST AID MEASURES

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

First aid facilities	Ensure eyewash and water services are available.
Medical attention	Local contamination: In case of skin or eye contamination, treat as under First Aid Measures Systemic poisoning There is no specific antidote. Treat symptoms.

4. FIRE-FIGHTING MEASURES

4.1	Suitable extinguishing media	Not classed as flammable. In case of fire, use water spray, foam, dry chemical powder or carbon dioxide.
4.2	Extinguishing media which shall not be used for safety	None
4.3	Special exposure hazards arising from the substance or preparation itself, combustion products.	CO ₂ , CO, NO _x , and SO _x are produced after combustion.
4.4	Special protective equipment for fire-fighters	No required.
4.5	Additional information	None

5. ACCIDENTAL RELEASE MEASURES

5.1	Personal precautions	Use proper ventilation. Use eye and skin protection.
5.2	Environmental precautions	Keeping away from drains, surface and ground water and soil, possible need to alert the neighbourhood.
5.3	Methods for cleaning up	Absorb spill with material (cloth or paper), then place in chemical waste containers.
5.4	Additional information	None.

6. HANDLING AND STORAGE

6.1	Handling:	Avoid rough handling or dropping
	6.1.1 Protective measures	Not required in normal use.
	6.1.2 Measures to prevent aerosol and dust generation	Not required in normal use.
	6.1.3 Measures required to protect the environment	Not required in normal use.

	6.1.4 Specific requirements or handling rules	None
	6.1.5 Precautions against fire and explosion	Not required in normal use.
6.2	Storage	Store in a dry, cool, well-ventilated location.
6.3	Specific use(s)	Not use it except the ink for writing instruments

7. EXPOSURE CONTROLS / PERSONAL PROTECTION

7.1	Exposure limit values	No data		
	7.1.1 Occupational exposure controls	Not available		
	7.1.2 Biological limit values	Not available		
	7.1.3 DNEL and PNEC – value(s) as applicable	No data		
7.2	Exposure controls			
	7.2.1 Occupational exposure controls			
		a) Respiratory protection	Not required	
		b) Hand protection	Wear suitable gloves	
		c) Eye protection	Wear eye protection	
		d) Skin protection	Wear suitable protective clothing	
	7.2.2 Environmental exposure controls			
		ACGIH TLV-TWA	Triethanolamine	5mg/m ³

8. PHYSICAL AND CHEMICAL PROPERTIES

For ink unless otherwise specified				
8.1	General information			
	Appearance	Viscosity liquid (Colour) Black, Red, Blue, Green, Violet, Light Blue, Pink, Orange, Light Green, Brown		
	Odour	Slight characteristic		
8.2	Important health, safety and environmental information			
	pH	7.5 – 9.5		
	Boiling point / boiling range	About 100 degrees Celsius		
	Flash Point	Boils without flashing		
	Flammability (solid, gas)	None		
	Explosive properties	None		
	Oxidizing properties	None		
	Vapor pressure	No data		
	Relative density	1.02-1.07 (at 20 degrees Celsius)		
	Solubility	Not applicable		
	Water solubility	Soluble		
	Partition coefficient: n-octanol/water	Not available		
	Viscosity	550-750 mPa-s (at 20 degrees Celsius)		
	Vapour Density	No data		
	Evaporation rate	No data		

8.3	Other information	None
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9. STABILITY AND REACTIVITY

9.1	Conditions to avoid	This material is stable.
9.2	Materials to avoid	This material is stable.
9.3	Hazardous decomposition products	No data.

10. TOXICOLOGICAL INFORMATION

For ink unless otherwise specified.		
10.1	Toxicokinetics, metabolism and distribution.	No data.
10.2	Acute effects (acute toxicity, irritation and corrosivity)	
	Acute toxicity	triethanolamine LD ₅₀ 4.92 ml/kg (rat)
10.3	Sensitisation	No data.
10.4	Repeated dose toxicity	No data.
10.5	CMR (carcinogenicity, mutagenicity, and toxicity for reproduction)	No data.

11. ECOLOGICAL INFORMATION

11.1	Ecotoxicity	No data.
11.2	Mobility	No data.
11.3	Persistence and degradability	No data.
11.4	Bioaccumulative potential	No data.
11.5	Results of PBT assessment	No data.
11.6	Other adverse effects	None

12. DISPOSAL CONSIDERATIONS

Follow all regulations in your country.
Not hazardous waste.

13. TRANSPORT INFORMATION

13.1	UN number	Not applicable
13.2	Class	Not applicable
13.3	Proper shipping name	Not applicable
13.4	Packing group	Not applicable
13.5	Marine pollutant	Not applicable
13.6	Other applicable information	None

14. REGULATORY INFORMATION

Suit a standard of "Safety of toys" Part 3 (EN71-3)
Detrimental metallic elements are not containing.
(Antimony, Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium)

15. OTHER INFORMATION

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

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