

MATERIAL SAFETY DATA SHEET**1. PRODUCT & COMPANY IDENTIFICATION**• **PRODUCT NAME**

Artline 750 MARKER FOR LAUNDRY EK-750 (Black , Red)

• **NAME OF MANUFACTURER/SUPPLIER**

Shachihata Inc.

• **NAME OF SECTION**

Research and Development Dept.

• **ADDRESS**

4-69, Amatuka-chou, Nishi-ku, Nagoya-shi, Aichi-ken, Japan

• **TELEPHONE NUMBER**

052/521/1466

• **FAX NUMBER**

052/521/1468

2. COMPOSITION / INFORMATION ON INGREDIENTS (INK)• **SUBSTANCE / MIXTURE**

Mixture

• **HAZARDOUS INGREDIENTS**

CHEMICAL OR COMMON NAME(S)

CAS NO.

INGREDIENTS(wt.%)

Ethanol

64-17-5

20~40

2-Propanol , 1-methoxy

107-98-2

20~40

3. HAZARDS IDENTIFICATION (INK)• **CLASS NAME OF HAZARDS CHEMICALS FOR MSDS IN JAPAN**

Flammable liquids.

• **PHYSICAL AND CHEMICAL HAZARDS**

Flammable liquids.

• **ADVERSE HUMAN HEALTH HAZARDS**

Harmful by inhalation, in contact with skin.

4. FIRST-AID MEASURES

• **EYE CONTACT** ... Immediately flush with plenty of water.
See medical advice immediately.

• **SKIN CONTACT** ... Wipe off with dry cloth and wash with mild soap.
See medical advice immediately.

• **INHALATION** ... Move to well ventilated place.
See medical advice immediately.

• **INGESTION** ... Not applicable.

5. FIRE-FIGHTING MEASURES

- **SPECIFIC HAZARDS WITH REGARD TO FIRE-FIGHTING MEASURES**
In case of fire, use foam dry chemicals.
- **EXTINGUISHING MEDIA**
Dry chemical powder, foam or carbon dioxide.

6. ACCIDENTAL RELEASE MEASURES

Wipe off with absorbent materials.

7. HANDLING AND STORAGE

- **HANDLING**
 - Use only in the well-ventilated areas.
 - Avoid contact with skin or eyes.
 - Avoid inhalation
 - Avoid high temp. and fire.
- **STORAGE**
 - Store in a cool, dry, well-ventilated location.
 - Keep tightly capped.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

- **CONTROL PARAMETERS**

[Ethanol]

ACGIH TLV (1990-91) TWA	1000ppm(1880mg/m ³)
OSHA PEL(1993)	1000ppm(1990mg/m ³)

[2-Propanol , 1-methoxy]

ACGIH TLV (1990-91) TWA	100ppm(369mg/m ³)	STEL 150ppm(553mg/m ³)
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- **ENGINEERING MEASURES**

Not required.

- **PERSONAL PROTECTIVE EQUIPMENT**

Not required.

9. PHYSICAL AND CHEMICAL PROPERTIES (INK)

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|------------------------------------|-----------------------|------------------------------|-------------------|
| • APPEARANCE AND ODOR | Liquid, solvent odor. | | |
| • DENSITY(g/cm³) | 0.9~1.0 | • BOILING POINT | No data available |
| • VOLATILE(wt.%) | 60~80 | • SOLUBILITY IN WATER | Insoluble |
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10. PHYSICAL HAZARD(STABILITY AND REACTIVITY) (INK)

- FLASH POINT 20 °C(closed cup)
- AUTOIGNITION TEMPERATURE No data available
- EXPLOSION LIMIT No data available.

11. TOXICOLOGICAL INFORMATION**•ACUTE TOXICITY (RTECS)****[Ethanol]**

Oral	LD ₅₀ (rat)	7,060mg/Kg
Inhalation	LC ₅₀ (rat)	20,000ppm/10H

[2-Propanol , 1-methoxy]

Oral	LD ₅₀ (rat)	5,660mg/Kg
Inhalation	LCL ₀ (rat)	7,000ppm/6H

12. ECOLOGICAL INFORMATION

No data available.

13. DISPOSAL CONSIDERATION

Disposal as usual industrial waste goods, follow all regulations in your country.

14. TRANSPORT INFORMATION

Follow all regulations in your country.

15. REGULATORY INFORMATION

Follow all regulations in your country.

16. OTHER INFORMATION

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