

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : LION Metal Ink LMN-1 (Black)
COMPANY : LION OFFICE PRODUCTS CORP.
ADDRESS : 3-5-44, Nagata Naka, Higashi-Osaka, Osaka 577-8560, Japan
TEL/FAX NO. : Tel: +81-6-6747-1104 Fax: +81-6-6747-8437

2. HAZARDS IDENTIFICATION

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS No.	Other Limit
Carbon black	1333-86-4	---
Kerosine (petroleum), hydrodesulfurized	64742-81-0	---
Sorbitan sesquioleate	8007-43-0	---
Silicon dioxide	7631-86-9	---
Triphenyl phosphate	101-02-0	---
Linseed oil	8001-26-1	---

4. FIRST-AID MEASURES

Skin contact:

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. If necessary seek medical attention.

Eye contact:

Immediately hold eyelids open and rinse with a stream of water for at least 15 minutes and seek medical attention.

Ingestion:

Seek medical attention. Never make an unconscious person vomit or drink fluids. When vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately, and show the MSDS to the physician.

Inhalation:

Remove person to fresh air. If necessary seek medical attention.

5. FIRE FIGHTING MEASURES

Extinguishing media: Carbon dioxide, dry chemical, foam

Special firefighting procedures: Not applicable

Unusual fire and explosion hazards: Not applicable

6.ACCIDENTAL RELEASE MEASURES

Personal precautions: Not available

Environmental precautions: Do not wash away into shower or water way.

Methods for cleaning up: Soak up with absorbent materials or wash with water and dispose
in accordance with national, state and local regulations.

7.HANDLING AND STORAGE

- Handling : Handle in well-ventilated areas.
: Avoid contact with eyes and skin.
: Do not inhale fume and mist.
: Keep out of the reach of children.
- Storage : Keep away from heat sources.
: Keep container tightly closed.
: Store in a dark and well-ventilated place.
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8.EXPOSURE CONTROL/PERSONAL PROTECTION

- ACGIH : Not established
- OSHA : Not established
- Ventilation : Use local exhaust ventilation.
- Protective Measures : Safety goggles and rubber gloves
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9.PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Viscous red liquid
- Odor : Slight odor of Kerosine (petroleum), hydrodesulfurized
- Boiling point : >250
- Melting point : -18
- Vapor density (Air=1) : >1
- Vapor pressure : Negligible
- Evaporation rate : <1
(Butyl Acetate=1)
- Solubility in water : Negligible
- pH : Not applicable
- Specific gravity (H₂O=1) : 0.931
- Flash point : >130 (TCC)
- Ignition temperature : Not applicable
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10.STABILITY AND REACTIVITY

- Stability : Stable
- Hazardous reaction : Will not occur

Conditions to avoid : Avoid heat, flames, sparks and other sources of ignition.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Ingestion LD50 : Not available

Skin LD50 : Not available

Chronic effects : Not available

Carcinogenicity : Not available

Other information : None

12. ECOLOGICAL INFORMATION

Not available

13. DISPOSAL CONSIDERATIONS

Dispose of waste in accordance with national, state and local regulations.

14. TRANSPORT INFORMATION

Follow all regulations in your country or region.

Precautions : Pack, label and transport according to regulation.

: Ensure containers without breakage or leakage.

: Ensure containers tightly fixed.

Proper shipping name : Non hazardous

Hazard class : Not applicable

UN No. : Not applicable

Packing group : Not applicable

Hazard labels : Not applicable

15. REGULATORY INFORMATION

Follow all regulations in your country or region.

16. OTHER INFORMATION

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