

MATERIAL SAFETY DATA SHEET

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Issue Date

24-Mar-98

[1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION]

PRODUCT NAME: TONER FOR MFX-1500 (TOFUTONE MU-7BD)
COMPANY: Murata Machinery LTD.
136, Takeda-Mukaisiro-cho, Fushimiku, Kyoto 612, Japan
TELEPHONE NO. 81-75-662-7719 (Communication Equipment Division)
EMERGENCY TELEPHONE NO. 81-75-662-7719 (Communication Equipment Division)

[2. COMPOSITION / INFORMATION ON INGREDIENTS]

SUBSTANCE/MIXTURE: Mixture
CHEMICAL NAME (GENERIC NAME) BLACK TONER
CHEMICAL FORMULA: Not specified
CAS RN: Confidential
UN No. Not applicable
EINECS: Yes
TSCA: Yes
OTHER INFORMATION Contents: Carbon black about 3.7%
Contents: Silica dioxide about 0.7%

[3. HAZARDS IDENTIFICATION]

FIRE AND EXPLOSION HAZARD This material may cause risk of dust explosion
POTENTIAL HEALTH EFFECTS To the best of our investigation, no special hazards have to be mentioned.
ENVIRONMENTAL EFFECTS To the best of our investigation, no information available.

[4. FIRST-AID MEASURES]

IN CASE OF EYE CONTACT Immediately hold eyelids open and flush with a stream of water for at least 15 minutes. If necessary, seek medical attention.
IN CASE OF SKIN CONTACT Wash material off skin with plenty of water and soap. If necessary, seek medical attention.
IN CASE OF INHALATION Remove person to fresh air. If necessary seek medical attention.
IN CASE OF INGESTION Seek medical attention. Never give anything by mouth and give one or two glasses of water or milk to drink.

[5. FIRE FIGHTING MEASURES]

EXTINGUISHING MEASURES Risk of producing harmful gases such as carbon monoxide and nitrogen oxides. Avoid inhalation of smoke or gases.
EXTINGUISHING AGENTS In case of small fire use powder, carbon dioxide or dry sand.
In case of large fire, shut off air by spraying with water or foam.

[6. ACCIDENTAL RELEASE MEASURES]

In case of spill vacuum material immediately. Then wipe up remainder in waste cloth.

[7. HANDLING AND STORAGE]

HANDLING Fight fire from upwind position.
STORAGE Fight fire from upwind position.
Avoid inhalation of dust.

[8. EXPOSURE CONTROLS / PERSONAL PROTECTION]

ACGIH(TLV) Not established
OSHA(PEL) Not established
VENTILATION Use local exhaust ventilation or general ventilation

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PROTECTIVE MEASURES

RESPIRATORY PROTECTIVE EQUIPMENT Dust respirator

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|---------------------------|-------------------------------------|
| EYE PROTECTIVE EQUIPMENT | Safety goggles |
| HAND PROTECTIVE EQUIPMENT | Rubber gloves |
| PROTECTIVE CLOTHING | Use as appropriate to the situation |

[9. PHYSICAL AND CHEMICAL PROPERTIES]

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|-------------------------------------|---|
| APPEARANCE | Black powder |
| ODOR | Odorless |
| BOILING POINT | No data available |
| VAPOUR PRESSURE | No data available |
| VOLATILITY | No |
| MELTING/FREEZING POINT | No data available |
| SPECIFIC GRAVITY | 1:2 (20.0 C) (68.0 F) |
| SOLUBILITY | |
| WATER SOLUBILITY | Insoluble |
| SOLVENT SOLUBILITY | Partially soluble in toluene, chloroform, and tetrahydrofuran |
| ph | No data available |
| VISCOSITY | No data available |
| OCTANOL/WATER PARTITION COEFFICIENT | No data available |
| OTHER INFORMATION | None |

[10. REACTIVITY AND STABILITY]

| | |
|--|--|
| FLASH POINT | Not applicable |
| AUTOIGNITION | No data available |
| EXPLOSIVE LIMIT IN AIR (LEC) | No data available |
| EXPLOSIVE LIMIT IN AIR (UEC) | No data available |
| COMBUSTIBILITY | Yes |
| OXIDIZABILITY | No |
| SELF-REACTIVITY / EXPLOSIVITY | This material may cause risk of dust explosion |
| REACTIVITY AND STABILITY | Stable |
| HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS | No data available |
| OTHER INFORMATION | None |

[11. TOXICOLOGICAL INFORMATION]

| | |
|--------------------|---|
| CORROSIVITY | No data available |
| SKIN IRRITATION | No data available |
| EYE IRRITATION | No data available |
| SENSITIZATION | No data available |
| ACUTE TOXICITY | No data available |
| SUBCHRONIC EFFECTS | No data available |
| CHRONIC EFFECTS | No data available |
| CARCINOGENICITY | No data available |
| IARC | Carbon black, Group 2B. The agent is possibly carcinogenic to humans. Silica Dioxide, Group 3. The agent is not classifiable as to its carcinogenicity to humans. Hydrophobic silica, Group 3. The agent is not classifiable as to its carcinogenicity to humans. |
| NTP | None established |

| | |
|----------------------|-------------------|
| OSHA | None established |
| MUTAGENICITY | No data available |
| REPRODUCTIVE EFFECTS | No data available |
| TERATOGENICITY | No data available |
| OTHER INFORMATION | None |

[12. ECOLOGICAL INFORMATION]

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|-------------------|-------------------|
| BIODEGRADABILITY | No data available |
| BIOACCUMULATION | No data available |
| FISH TOXICITY | No data available |
| OTHER INFORMATION | None |

[13. DISPOSAL CONSIDERATIONS]

Pass to a licensed waste contractor.
 Incinerate in small amounts.
 Risk of producing harmful gases such as carbon monoxide and nitrogen oxides.

[14. TRANSPORTATION INFORMATION]

Follow all regulations in your country or region.

| | |
|----------------------|---|
| PRECAUTIONS | Review "ACCIDENTAL RELEASE MEASURES (Section 6)" Review "HANDLING AND STORAGE (Section 7)" Ensure containers are not broken or leaking. |
| 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.

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|--------|-----|
| EINECS | Yes |
| TSCA | Yes |

KAO Corporation is not able to check on the regulatory information in regard to the substances in your country or region; therefore, we request that you assume responsibility for this matter.

[16. OTHER INFORMATION]

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|------------|------|
| REFERENCES | None |
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