Issue Date 6-Oct-00

[1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION]

Product Name: TUFTONE MT (Toner for MFX1200/MFX1600/MFX1300/MFX1700/F320/F360)

Company Murata Machinery LTD.

Telephone 136. Takeda-Mukaisiro-cho, Fushimiku, Kyoto 612 Japan 81-75-662-7719 (Communications Equipment Division) 81-75-662-7719 (Communications Equipment Division)

[2. COMPOSITION/INFORMATION ON INGREDIENTS]

Substance/Mixture Mixture

**Chemical Name** 

(Generic Name)Black TonerChemical FormulaNot SpecifiedCAS RNConfidentialUN No.Not Applicable

EINECS No TSCA Yes Other Information None

[3. HAZARDS IDENTIFICATION]

Fire and Explosion Hazard 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 is 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 the skin with plenty of water and soap. If

necessary seek medical attention.

In case of inhalation: Remove person to fresh air. If necessary, see medical attention.

In case of ingestion: Seek medical attention. Never give anything by mouth to an unconscious person. If possible, rinse out 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. In case of large

fire, shut off air by spraying with water or foam.

[6. ACCIDENTAL RELEASE MEASURES]

In case of spill, vacumn material immediately. Then wipe up

remainder in waste cloth.

Issue Date 6-Oct-00

[7. HANDLING AND STORAGE]

Handling Fight fire from upwind position.

Avoid inhalation of dust.

Storage Keep it free from moisture. Keep away from sources of ignition.

Keep container tightly closed. Store in a dark and cool place.

[8. EXPOSURE CONTROLS / PERSONAL PROTECTION]

ACHIH (TLV) TWA (1998) (carbon black) 3.5 ma/m<sup>3</sup>

OSHA (PEL) Not established

Ventilation Use local exhaust ventilation or general ventilation

Protective Measures

Respiratory: Dust respirator Eye Protection: Safety goggles Hand Protection: Rubber gloves

Protective Clothing: Use as appropriate to the situation

[9. PHYSICAL AND CHEMICAL PROPERTIES]

Appearance Black powder Odor Odorless

Boiling Point No data available Vapor Pressure No data available

Volatility No

Melting/Freezing Point No data available

Specific Gravity 1.2 (20.0°C) 1.2 (68.0°F)

Solubility

Water solubility: Soluble

Solvent solubility: A part of component is soluble in toulene, chloroform,

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
Autolgnition Temperature
Explosive limit in air (LEC)
Explosive limit in air (UEC)
No data available
No data available
No data available

Combustibility Yes Oxidizability No

Self-Reactivity/Explosivity This material may cause risk of dust explosion

Reactivity and Stability Stable in general

Hazardous Combustion or

Decomposition Products No information available

Other Information None

Issue Date 6-Oct-00

[11. TOXICOLOGICAL INFORMATION]

Corrosivity No data available

Skin Irritation Guinea pig, Guinea pig Maximization Test: Negative

Eye Irritation No data available Sensitization No data available

Acute Toxicity Oral, rat, LD<sub>50</sub>: > 2000 mg/kg (male, female) (Data on similar

product)

Subchronic Effects

No data available

Chronic Effects

No data available

Carcinogenicity

IARC: Carbon black, Group 2B, the Agent is possibly carcinogenic to

humans.

Hydrophobic silica, Group 3. The agent is not classifiable as to its

carcinogenicity to humans.

NTP: None of this product's components are listed OSHA: None of this product's components are listed

Mutagenicity: Ames test (Salmonella typhimurium)

TA98, TA100, TA1535, TA1537, TA1538, Escherichia coli WP2uvrA:

Negative Data on similar product

Reproductive Effects: No data available Teratogenicity: No data available

Other Information: None

[12. ECOLOGICAL INFORMATION]

Biodegradability

Bioaccumulation

Fish Toxicity

No data available

No data available

No data available

Other Information None

[13. DISPOSAL CONSIDERATIONS]

Review "HANDLING AND STORAGE (Section 7)"

Dispose of waste in accordance with local state and federal regulations

Pass to a licensed waste contractor

Incinerate in small quantities

Risk of producing harmful gases such as corbon monoxide and nitrogen oxides

[14. TRANSPORTATION INFORMATION]

Follow all regulations in your country or region

Precautions: Reivew "ACCIDENTAL RELEASE MEASURES (Section 8)"

Review "HANDLING AND STORAGE (Section 7)"

Ensure containers are not leaking or broken

Handle container careful to avoid shock. Do not drop or break

Pack, label and transport according to regulations

Proper Shipping Label Non hazardous

Issue Date 6-Oct-00

Hazard Class:
UN No.:
Packing Group:
Hazard Labels:
Not applicable
Not applicable
Not applicable

[15. REGULATOR INFORMATION]

Follow all regulations in your country or region

EINECS No TSCA Yes

[16. INFORMATION]

References None

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability (including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another, in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist.

## MURATEC MODEL MFX-1200, MFX-1600, F-320, F-360, MFX1300, MFX1700

#### **Material Safety Data Sheet** U.S. Department of Labor May be used to comply with Occupational Safety and Health Administration OSHA's Hazard Communication Standard (Non-Mandatory Form) 29 CFR 1910.1200. Standard must be Form Approved consulted for specific requirements OMB No. 1218-0072 IDENTITY (As Used on Label and List) Blank spaces are not permitted. If any item is not applicable or no Organic photoconductor for information is available, the space must be marked to indicate that. MFX1200/MFX1600/MFX1300/MFX1700/F320/F-360 Section I Distributor's Name **Emergency Telephone Number** Mitsubishi Chemical Corporation 81-3-3283-6547 Facsimile: 81-3-383-6965 Address (Number, Street, City, State, and ZIP Code) Telephone Number for Information 5-2, Marunouchi 2-chome, chiyoda-ku, Tokyo 100, Japan 81-3-3283-6547 Facsimile: 81-3-383-6965 Manufacturer's Name Date Prepared Mitsubishi Chemical Corporation September 7, 2000 Address (Number, Street, City, State, and ZIP Code) Signature of Preparer (optional) 5-2, Marunouchi 2-chome, chiyoda-ku, Tokyo 100, Japan Section II - Hazardous Ingredients/Identity Information Hazardous Components (Specific Chemical Identity; Common Name(s)) OSHA PEL ACGIH TLV Recommended % (optional) Non-hazardous ingredients: > 97% Aluminum cylinder Not listed None Binder resin Not listed None < 1% Photosensitive material < 1% Not listed None **Pigment** Not listed None < 1% Section III - Physical/Chemical Characterisitics N.A. N.A. **Boiling Point** Specific Gravity (H2O - 1) N.A. N.A. Vapor Pressure (mm Hg) Melting Point Evaporation Rate (Butyl acetate = 1) N.A. N.A. Vapor Density (AIR - 1) Solubility in Water Insoluble Appearance and Odor Green, odorless, and solid cylinder Section IV - Fire and Explosion Hazard Data Flammable Limits Flash Point (Method Used) **LEL** UEL N.A N.A Extinguishing Media CO<sub>2</sub>, dry chemical, foam or water Special Fire Fighting Procedures This material will be scorched in case of fire

Unusual Fire and Explosion Hazards

This material has no unusual fire or explosion hazards

# MURATEC MODEL MFX1200, MFX1300, MFX1600, MFX1700, F-320, F-360

Section V - Reactivity Data									
Stability	Unstable		Conditions to	Avoid	N	IONE			
	Stable	Х							
Incompatability (Materials to Avoid)									
Hazardous Decomposition or Byproducts									
Hazardous Polymerization	May Occur		Conditions to	Avoid	N	IONE			
	Will Not Occur	Х							
Section VI - Health Hazard Data									
Routes of Entry:	Inhala	ation?	NO	Skin?	NO	Ingestion? NO			
Health Hazards (Acute and Chronic)									
Carcinogenicity:	NTP? NO		IARC I	Monographs	? NO	OSHA Regulated	NO		
Signs and Symptoms of Exposure: NONE									
Madiaal Caadii									
Medical Conditions Generally Aggravated	by Exposure NON	Ε							
Emergency and First Aid Procedures No treatment is required									
Section VII - Precautions for Safe Handling and Use									
Steps to be Taken in Case Material is Released or Spilled  No special precautions									
Waste Disposal Method Waste material may be dumped or incinerated under conditons which meet all									
federal, state and local environmental regulations  Precautions to be Taken in Handling and Storing  No special storage requirements for safety reasons									
Troductions to be run			110 000		- Toquiloi	Tionic for carety reaccin			
Other Precautions NONE									
Section VIII - Control Measures									
Respiratory Protection (Specify Type)  None required under normal use									
Ventilation	Local Exhaust		NO	Special		NO			
	Mechanical (General)		NO	Other		NO			

Protective Gloves None required under normal use	Eye Protection	None required under normal use			
Other Protective Clothing or Equipment	None required under normal use				
Work/Hygenic Practices	NONE				