

# MURATEC MODEL F-76 / F-86 (page 1 of 4)

## Material Safety Data Sheet

May be used to comply with  
 OSHA's Hazard Communication Standard  
 29 CFR 1910.1200. Standard must be  
 consulted for specific requirements

## U.S. Department of Labor

Occupational Safety and Health Administration  
 (Non-Mandatory Form)  
 Form Approved  
 OMB No. 1218-0072

IDENTITY (As Used on Label and List) D-Q23 DEVELOPER	Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.
---	--

### Section I

Distributor's Name	Emergency Telephone Number 054-256-4114 (Japan)
Address (Number, Street, City, State, and ZIP Code)	Telephone Number for Information 054-256-4114 (Japan)
Manufacturer's Name TOMOEGAWA PAPER CO., LTD	Date Prepared November 15, 1993
Address 3-1. MOCHIMUNE TOMOE-CHO, SHIZUOKA-SHI, 421-01 JAPAN	Signature of Preparer (optional)

### Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL ACGIH TLV	Other limits	
		Recommended	% (optional)
(CAS No. 1317-38-0)			
FERRITE { (CAS No. 1314-13-2)	Not Listed	Not Listed	None } 95.5
(CAS No. 1309-37-1)			
T-Q23 TONER			4.5

### Section III - Physical/Chemical Characteristics

Boiling Point	N.A.	Specific Gravity (H <sub>2</sub> O - 1)	4.7
Vapor Pressure (mm Hg)	N.A.	Melting Point	NOT KNOWN
Vapor Density (AIR - 1)	N.A.	Evaporation Rate	N.A.
Solubility in Water	NEGLIGIBLE		
Appearance and Odor	BLACK FINE POWDER, ODORLESS		

### Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	N.A.	Flammable Limits	LEL N.A.	UEL N.A.
Extinguishing Media	WATER FOG, FOAM, CO <sub>2</sub> , OR DRY CHEMICALS			
Special Fire Fighting Procedures	WEAR FULL EMERGENCY EQUIPMENT WITH SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR IN CASE OF BURNING IN LARGE QUANTITIES			
Unusual Fire and Explosion Hazards	THIS MATERIAL HAS NO UNUSUAL FIRE OR EXPLOSION HAZARDS			

## MURATEC MODEL F-76 / F-86 (page 2 of 4)

Section V - Reactivity Data			
Stability	Unstable		Conditions to Avoid NONE
	Stable	X	
Incompatibility (Materials to Avoid)		NONE	
Hazardous Decomposition or Byproducts		CO, CO2, AND NO	
Hazardous Polymerization	May Occur		Conditions to Avoid NONE
	Will Not Occur	X	
Section VI - Health Hazard Data			
Routes of Entry:		Inhalation? YES	Skin? NO      Ingestion? YES, BUT UNUSUAL
Health Hazards (Acute and Chronic)		NO DATA AVAILABLE	
Carcinogenicity:		NTP? NONE	IARC Monographs? NONE      OSHA Regulated? NONE
Signs and Symptoms of Exposure: MINIMUM IRRITATION TO RESPIRATORY TRACT MAY OCCUR WITH EXPOSURE			
Medical Conditions Generally Aggravated by Exposure		ACCUMULATION OF DUST IN THE RESPIRATORY SYSTEM	
Emergency and First Aid Procedures		EYE CONTACT: FLUSH FROM EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST FIVE MINUTES	
Section VII - Precautions for Safe Handling and Use			
Steps to be Taken in Case Material is Released or Spilled		SWEEP UP OR CLEAN UP WITH A VACUUM CLEANER	
Waste Disposal Method		INCINERATE OR DUMP UNDER CONDITIONS WHICH MEET ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS	
Precautions to be Taken in Handling and Storing		NONE	
Other Precautions		KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME	
Section VIII - Control Measures			
Respiratory Protection (Specify Type)		NONE REQUIRED UNDER NORMAL USE	
Ventilation	Local Exhaust	NONE	Special NONE
	Mechanical (General)	NONE	Other NONE
Protective Gloves		NONE	Eye Protection NONE

Other Protective Clothing or Equipment	NONE REQUIRED UNDER NORMAL USE
Work/Hygenic Practices	INHALATION SHOULD BE AVOIDED

## MURATEC MODEL F-76 / F-86 (page 3 of 4)

### Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements

### U.S. Department of Labor

Occupational Safety and Health Administration  
(Non-Mandatory Form)  
Form Approved  
OMB No. 1218-0072

IDENTITY (As Used on Label and List) T-Q23 TONER	Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.
---	--

#### Section I

Manufacturer's Name TOMOEGAWA PAPER CO., LTD	Emergency Telephone Number 054-256-4114 (JAPAN)
Address (Number, Street, City, State, and ZIP Code) 3-1, MOCHIMUNE TOMOE-CHO, SHIZUOKA-SHI, 421-01 JAPAN	Telephone Number for Information 054-256-4114 (JAPAN) Date Prepared NOVEMBER 15, 1993 Signature of Preparer (optional)

#### Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	CAS NO.	Other limits		% (optional)
		OSHA PEL	ACGIH TLV	
CARBON BLACK	1333-86-4	3.5mg/m <sup>3</sup>	3.5mg/m <sup>3</sup>	NONE 5.0
<b>NON-HAZARDOUS INGREDIENTS</b>				
Styrene Acrylate Copolymer	(CAS No. 27136-15-8)	NOT LISTED	NOT LISTED	NONE 88.5
POLYPROYLENE	(CAS No. 25085-53-4)	NOT LISTED	NOT LISTED	NONE 4.5
ORGANIC PIGMENT	(CAS No. 31714-55-3)	NOT LISTED	NOT LISTED	NONE 2.0

#### Section III - Physical/Chemical Characteristics

Boiling Point	N.A.	Specific Gravity (H <sub>2</sub> O - 1)	1.1
Vapor Pressure (mm Hg)	N.A.	Melting Point	NOT KNOWN
Vapor Density (AIR - 1)	N.A.	Evaporation Rate	N.A.
Solubility in Water	NEGLIIGIBLE		
Appearance and Odor	FINE, BLACK POWDER; ODORLESS		

#### Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	N.A.	Flammable Limits	LEL N.A.	UEL N.A.
Extinguishing Media	CO2, DRY CHEMICALS, FOAM OR WATER			
Special Fire Fighting Procedures	WEAR FULL EMERGENCY EQUIPMENT WITH SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR IN CASE OF BURNING IN LARGE QUANTITIES			

---

Unusual Fire and Explosion Hazards      THIS MATERIAL HAS NO UNUSUAL FIRE OR EXPLOSION HAZARDS

---

(Reproduce locally)      OSHA 174, Sept. 1985

# MURATEC MODEL F-76 / F-86 (page 4 of 4)

Section V - Reactivity Data			
Stability	Unstable		Conditions to Avoid NONE
	Stable	X	
Incompatability (Materials to Avoid)		NONE	
Hazardous Decomposition or Byproducts		CO, CO2, NO	
Hazardous Polymerization	May Occur		Conditions to Avoid NONE
	Will Not Occur	X	
Section VI - Health Hazard Data			
Routes of Entry:		Inhalation? YES	Skin? NO      Ingestion? YES, BUT UNUSUAL
Health Hazards (Acute and Chronic)			
NO DATA AVAILABLE			
Carcinogenicity:		NTP? NONE	IARC Monographs? NONE      OSHA Regulated NONE
Signs and Symptoms of Exposure:		MINIMUM IRRITATION TO RESPIRATORY TRACT MAY OCCUR AS WITH EXPOSURE TO ANY NON-TOXIC DUST	
Medical Conditions Generally Aggravated by Exposure		ACCUMULATION OF DUSH IN THE RESPIRATORY SYSTEM	
Emergency and First Aid Procedures		EYE CONTACT: FLUSH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST FIVE MINUTES	
<del>INHALATION: REMOVE TO FRESH AIR. IF EFFECTS OCCUR, CONSULT LOCAL MEDICAL PERSONNEL</del>			
Section VII - Precautions for Safe Handling and Use			
Steps to be Taken in Case Material is Released or Spilled		SWEEP UP OR CLEAN UP WITH A VACUMN CLEANER	
Waste Disposal Method		INCINERATE OR DUMP UNDER CONDITIONS WHICH MEET ALL FEDERAL, STATE, AND LOCAL ENVIIRONMENTAL REGULATIONS	
Precautions to be Taken in Handling and Storing		NONE	
Other Precautions		KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAME	
Section VIII - Control Measures			
Respiratory Protection (Specify Type)		NONE REQUIRED UNDER NORMAL USE	
Ventilation	Local Exhaust	NONE	Special NONE
	Mechanical (General)	NONE	Other NONE
Protective Gloves		NONE	Eye Protection NONE

Other Protective Clothing or Equipment

NONE REQUIRED UNDER NORMAL USE

Work/Hygenic Practices

INHALATION SHOULD BE AVOIDED

**MURATEC MODEL F-76/F-86 (Page 1 of 2)**

**Material Safety Data Sheet**

May be used to comply with  
 OSHA's Hazard Communication Standard  
 29 CFR 1910.1200. Standard must be  
 consulted for specific requirements

**U.S. Department of Labor**

Occupational Safety and Health Administration  
 (Non-Mandatory Form)  
 Form Approved  
 OMB No. 1218-0072

IDENTITY (As Used on Label and List) <p style="text-align: right;">DRUM</p>	Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.
--	--

**Section I**

Manufacturer's Name <b>FUJI ELECTRIC CO., LTD. MATSUMOTO FACTORY</b>	Emergency Telephone Number 81-263-27-4762
Address (Number, Street, City, State, and ZIP Code)	Telephone Number for Information 81-263-26-6665
	Date Prepared May 24, 1996
	Signature of Preparer (optional)

**Section II - Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other limits Recommended % (optional)
<b>INGREDIENTS</b>			
Aluminum	15mg/m <sup>3</sup> ☼	10mg/m <sup>3</sup> (TWA) ☼	99.6
Photoconductive Material	Not listed	Not listed	<0.1
Pigment	Not listed	Not listed	<0.1
Binder Resin	Not listed	Not listed	<0.1

☼ **Not listed as aluminum tube but aluminum dust**

**Section III - Physical/Chemical Characteristics**

Boiling Point	No data available	Specific Gravity (H <sub>2</sub> O = 1)	(H <sub>2</sub> O = 1) 2.7 (A1)
Vapor Pressure (mm Hg)	Not applicable	Melting Point	660°C (A1)
Vapor Density (AIR - 1)	Not applicable	Evaporation Rate (Butyl Acetate = 1)	Not applicable
Solubility in Water	Negligible		
Appearance and Odor	Green cylinder, no odor		

**Section IV - Fire and Explosion Hazard Data**

Flash Point (Method Used)	Not applicable	Flammable Limits	LEL N/A	UEL N/A
Extinguishing Media	CO <sub>2</sub> , Dry chemicals			
Special Fire Fighting Procedures	Self-contained breathing apparatus and full protection against dust and fumes. (In the event that a large quantity of drums produces fumes or vapors at a high temperature)			

Unusual Fire and Explosion Hazards

**MURATEC MODEL F-76/F-86 (Page 2 of 2)**

<b>Section V - Reactivity Data</b>			
Stability	Unstable		Conditions to Avoid
	Stable	XX	No data available
Incompatibility (Materials to Avoid)		No data available	
Hazardous Decomposition or Byproducts			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	XX	No data available
<b>Section VI - Health Hazard Data</b>			
Routes of Entry:		Inhalation? <b>NO</b>	Skin? <b>NO</b> Ingestion? <b>NO</b>
Health Hazards (Acute and Chronic)		NO DATA AVAILABLE *Organic photoconductor is not chemical but <b>article</b> ; therefore, this is not hazardous under normal use.	
Carcinogenicity:	NTP? <b>Not listed</b>	IARC Monographs? <b>Not listed</b>	OSHA Regulated <b>Not listed</b>
Signs and Symptoms of Exposure:		NONE	
Medical Conditions Generally Aggravated by Exposure		NONE	
Emergency and First Aid Procedures		Not Applicable	
<b>Section VII - Precautions for Safe Handling and Use</b>			
Steps to be Taken in Case Material is Released or Spilled			
Waste Disposal Method	Must be dumped in accordance with all federal, state and local laws		
Precautions to be Taken in Handling and Storing		To keep the photoconductor functioning, store in moderately cool, dark dry place.	
Other Precautions	NONE		
<b>Section VIII - Control Measures</b>			
Respiratory Protection (Specify Type)		Not Required	
Ventilation	Local Exhaust	Not Required	Special      Not Required
	Mechanical (General)	Not Required	Other      Not Required
Protective Gloves	Not Required	Eye Protection	Not Required



Other Protective Clothing or Equipment	Not Required
Work/Hygenic Practices	Not Required