

FAX MSG TO BIE MANCHESTER FROM BROTHER BUSINESS MACHINES, NAGOYA
BM- 3742
13, MAY, 1992

(DOT)

CIRCULATION
~~PB~~ MB PW LT
DB NS PC

ATT: MR. J. BAKER
FROM: Y. YAMADA
RE: MSDS SHEETS FOR PRINTER RIBBONS
VIDE: MKD20420-4

PLEASE FIND ATTACHED THE COPIES OF EINECS CERTIFICATES AND MSDS
SHEET FOR M-4318/M-4318A PRINTER RIBBON.

2ND BM-3742-1

Rubh

for 9360/9380



HITACHI
Hitachi Power Tool Division
I. MITO, TAKOMACHI
KATORI-GUN,
CHIBA-KEN JAPAN T289-22
TEL: 0478(78)8871
FAX: 0478(78)8888

JAN. 10. 1982.

BROTHER INDUSTRIES, LTD.

I. MITO, TAKOMACHI
KATORI-GUN,
CHIBA-KEN JAPAN T289-22
TEL: 0478(78)8871
FAX: 0478(78)8888

JAN. 10. 1982.

BROTHER INDUSTRIES, LTD.

CERTIFICATE OF COMPLIANCE WITH TSCA AND EINECS
OF #1216 INKED RIBBONS

We hereby confirm that the formulated ingredients of this product were enrolled at Chemical Substance Inventory of TSCA (Toxic Substances Control Act) of EPA (Environmental Protection Agency) of the United States of America, and EINECS (European Inventory of Existing Commercial Chemical Substances).

These inked ribbons apply to following Parts (code number).

[UD2225001]	→ UD2223001	UD2413001
	BLACK → UD2237001	UD2432001
	→ UD2345001	UD2448001
	UD2356001	

[U24943001]	UD1C06001	U27158001
	UD1C11001	U27182001
	U24940001	U27163001
	UD2670001	U27688001

[UD2442001]	UD2204001	UD2438001
	UD2348001	UD2445001
	UD2411001	UD2465001
	UD2415001	UD2467001
	UD2438001	

Katsuo Ebisawa
Katsuo Ebisawa
Quality Assurance Department

~~(A-3)3~~ ZND BM-3742-2

Katsuo Ebisawa
Quality Assurance Department

1992-01-17 14:55 FROM K.K. 株式会社兄弟工業 TO

6242330 P.02

For 9365



1, MITO, TAKOMACHI,
KATORI-GUN,
CHIBA-KEN JAPAN 9289-22
TEL: 04-74761887
FAX: 0479(79)8888

JAN. 10. 1992.

BROTHER INDUSTRIES, LTD.

CERTIFICATE OF COMPLIANCE WITH TSCA AND EINECS OF
HK-055, R-7104A4, BL-41Q1A3, & Y-11102A4 INKED RIBBONS

We hereby confirm that the formulated ingredients of this product were enrolled at Chemical Substance Inventory of TSCA (Toxic Substances Control Act) of EPA (Environmental Protection Agency) of the United States of America, and EINECS (European Inventory of Existing Commercial Chemical Substances).

These inked ribbons apply to following Parts (code number).

[UD1795001]	→ UD2223001	UD2414001
COLOR →	UD229C001	UD2434001
	UD2346001	UD2447001
	UD2356001	

Katsuo Ebisawa

Katsuo Ebisawa
Quality Assurance Department

~~LA-323-7~~ ZND BM-3742-3

BLACK RIBBON

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 Container) #1216 INK 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: HITACHI POWDERED METALS CO., LTD. Address: No. 16-2, 3 Chome, Sotokanda, Chiyoda-ku Tokyo 101, JAPAN. Emergency Telephone Number: 0479-76-5572. Telephone Number for Information: 03-3255-0171. Date Prepared: 7, NOV. 1991.

Section II - Hazardous Ingredients/Identity Information. Table with columns: Hazardous Components (Specific Chemical Identity, Common Name(s)), OSHA PEL, ACGIH TLV, Other Limits Recommended, % (optional). Row 1: Mineral oil, -, -, -, 10-20.

Section III - Physical/Chemical Characteristics. Boiling Point: N/A, Specific Gravity (H2O = 1): 1.00, Vapor Pressure (mm Hg): N/A, Melting Point: NONE, Vapor Density (AIR = 1): N/A, Evaporation Rate (BUNY ACETATE = 1): N/A, Solubility in Water: Insoluble, Appearance and Odor: Black, Mild.

Section IV - Fire and Explosion Hazard Data. Flash Point (Method Used): Over 200 F COC, Flammable Limits: LEL N/A, UEL N/A, Extinguishing Media: Water Fog, Foam, CO2, & Dry Chemical, Special Fire Fighting Procedures: Treat as oil fire. Unusual Fire and Explosion Hazards: Keep containers tightly closed. Isolate from heat sparks and flame.

(Reproduce locally)

OSHA 174, Sept. 1983

LA 333-8 2ND BM-3742-4

Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid	Excessive heat, sparks, or open flame.
	Stable	X	

Incompatibility (Materials to Avoid) Strong chemical oxidizing agents.

Hazardous Decomposition or Byproducts Thermal decomposition may release oxides of carbon and nitrogen.

Hazardous Polymerization	May Occur	Conditions to Avoid	N/A
	Will Not Occur	X	

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	N/A	X	X

Health Hazards (Acute and Chronic) Low hazard for industrial handling. Essentialy non-irritating to skin.

(AMES TEST DATA: Negative mutagenicity)

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
		IARC Animal Carcinogens	N/A
(Mineral Oil)			

Signs and Symptoms of Exposure None

Medical Conditions Generally Accepted by Exposure N/A

Emergency and First Aid Procedures In case of eye contact, flush with plenty of water.

For prolonged skin contact wash the affected skin areas thoroughly with soap and water.

If swallowed, DO NOT induce vomiting, get medical attention. Remove to fresh air.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled This is not a regulated product. Spills should be contained, absorbed, and placed in suitable container for disposal.

Waste Disposal Method Landfill or incinerate in accordance with applicable local, state and federal environmental regulations.

Precautions to Be Taken in Handling and Storage In accordance with good industrial work practice, handle with care, avoid spills, unnecessary contact, and wash thoroughly after handling.

Other Precautions None

Section VIII - Control Measures

Respiratory Protection (Specify Type) N/A

Ventilation	Local Exhaust	Special
	N/A	N/A
	Mechanical (General)	Other
	Acceptable	N/A

Protective Gloves Oil-proof gloves Eye Protection Safety goggles

Other Protective Clothing or Equipment Not needed

Work/Hygiene Practices Keep out of reach of children. Wash after handling.

LA-323-9 2ND RM-3742-5

COLOR RIBBON
(BLACK)

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) **WX-055 INK** *Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate this.*

Section I

Manufacturer's Name HITACHI POWDER METALS CO., LTD	Emergency Telephone Number 0479-76-5372
Address (Number, Street, City, State, and ZIP Code) No.16-8,3Chome, Sotokanda Chiyoda-ku	Telephone Number for Information 03-3255-0171
Tokyo 101, JAPAN	Date Prepared JAN 14, 1992
	Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specify Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Mineral oil	-	-	-	50

Section III — Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (20°C "1)	Approx. 1	
Vapor Pressure (mm Hg.)	N/A	Melting Point		NONE
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)		N/A
Solubility in Water	Insoluble			
Appearance and Odor	Black, Mild			

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
Over 200C (COC)	N/A	N/A	N/A
Extinguishing Media: Water Fog, Foam, CO2 & Dry Chemical			
Special Fire Fighting Procedures: Treat as oil fire.			

Unusual Fire and Explosion Hazards

Keep containers tightly closed. Isolate from heat sparks flame.

(Reproduce locally)

OSHA 174, Sept. 1985

LA-323-10 2ND BM-3742-6

Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid	Excessive heat, sparks, or open flames.
	Stable	X	

Incompatibility (Materials to Avoid) Strong chemical oxidizing agents.

Hazardous Decomposition or Byproducts Thermal decomposition may release oxides of carbon and nitrogen.

Hazardous Polymerization	May Occur	Conditions to Avoid	N/A
	Will Not Occur	X	

Section VI - Health Hazard Data

Route(s) of Entry	Inhalation?	N/A	Skin?	X	Ingestion?	X
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Health Hazards (Acute and Chronic) Low hazard for industrial handling. Essentialy non-irritating to skin.

Carcinogenicity:	NTP?	N/A	IARC Monographs?	IARC Animal carcinogens	OSHA Regulated?	N/A
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(Mineral oil)

Signs and Symptoms of Exposure NONE

Medical Conditions Generally Aggravated by Exposure N/A

Emergency and First Aid Procedures In case of eye contact, flush with plenty of water.

For prolonged skin contact wash the affected skin areas thoroughly with soap and water. If swallowed, DO NOT induce vomiting, get medical attention. Remove to fresh air.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled This is not a regulated product. Spills should be contained, absorbed, and placed in suitable container for disposal.

Waste Disposal Method Landfill or incinerate in accordance with applicable local, state federal environmental regulations.

Precautions to Be Taken in Handling and Storage In accordance with good industrial work practice, handle with care, avoid spills, unnecessary contact, and wash throughtly after handling.

Other Precautions NONE

Section VIII - Control Measures

Respiratory Protection (Specify Type) N/A

Ventilation	Local Exhaust	N/A	Special	N/A
	Mechanical (General)	Acceptable	Other	N/A

Protective Gloves Oil-proof gloves Eye Protection Safety goggles

Other Protective Clothing or Equipment Not needed

Work/Hygiene Practices Keep out of reach of children. Wash after handling.

LA-323-11 2ND BM-3742-7

COLOR RIBBON
<CYAN>

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)
BL-4101A3 INK

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate this.

Section I

Manufacturer's Name HITACHI POWDER METALS CO., LTD	Emergency Telephone Number 0479-76-5572
Address (Number, Street, City, State, and ZIP Code) No. 16-8, 3Chome, Sotokanda Chiyoda-ku	Telephone Number for Information 03-3255-0171
Tokyo 101, JAPAN	Date Prepared JAN 14, 1992
	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	% (approx)
Mineral oil	-	-	-	40

Section III -- Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	Approx. 1
Vapor Pressure (mm Hg)	N/A	Melting Point	NONE
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	Insoluble		
Appearance and Color	Cyan, Mild		

Section IV -- Fire and Explosion Hazard Data

Flash Point (Method Used) Over 200C (COC)	Flammable Limits N/A	LEL N/A	UEL N/A
Extinguishing Media Water Fog, Form, CO2 & Dry Chemical			
Special Fire Fighting Procedures Treat as oil fire.			
Unusual Fire and Explosion Hazards Keep containers tightly closed. Isolate from heat sparks flame.			

(Reproduce locally)

OSHA 174, Sep. 1985

LA 323-12 2ND BM-4742-8

Section V -- Reactivity Data

Stability	Unstable	Conditions to Avoid	Excessive heat, sparks, or open flame.
	Stable	X	

Incompatibility (Materials to Avoid) Strong chemical oxidizing agents.

Hazardous Decomposition or Byproducts Thermal decomposition may release oxides of carbon and nitrogen.

Hazardous Polymerization	May Occur	Conditions to Avoid	N/A
	Will Not Occur	X	

Section VI -- Health Hazard Data

Route(s) of Entry:	Inhalation?	N/A	Skin?	X	Ingestion?	X
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Health Hazards (Acute and Chronic) Low hazard for industrial handling. Essentialy non-irritating to skin.

Carcinogenicity:	NTP?	N/A	IARC Monographs?	IARC Animal carcinogens	OSHA Required?	N/A
	(Mineral oil)					

Signs and Symptoms of Exposure NONE

Medical Conditions Generally Accepted by Exposure N/A

Emergency and First Aid Procedures In case of eye contact, flush with plenty of water.
 For prolonged skin contact wash the affected skin areas thoroughly with soap and water.
 If swallowed, DO NOT induce vomiting, get medical attention. Remove to fresh air.

Section VII -- Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
 This is not a regulated product. Spills should be contained, absorbed, and placed in suitable container for disposal.

Waste Disposal Method Landfill or incinerate in accordance with applicable local, state federal environmental regulations.

Precautions to Be Taken in Handling and Storing
 In accordance with good industrial work practices, handle with care, avoid spills, unnecessary contact, and wash throughtly after handling.

Other Precautions NONE

Section VIII -- Control Measures

Respiratory Protection (Specify Type)				N/A
Ventilation	Local Exhaust	N/A	Special	N/A
	Mechanical (General)	Acceptable	Other	N/A
Protective Gloves	Oil-proof gloves	Eye Protection	Safety goggles	
Other Protective Clothing or Equipment Not needed				

Work/Hygiene Practices Keep out of reach of children. Wash after handling.

LA-323-13 2ND BM-3742-9

COLOR RIBBON

(MAGENDA)

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

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

IDENTITY (As Used on Label and Label) R-7104A4 INK

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: HITACHI POWDERD METALS CO., LTD
Address (Number, Street, City, State, and ZIP Code): No.16-8, 3Chome, Sotokanda Chiyoda-ku Tokyo 101, JAPAN

Emergency Telephone Number: 0479-76-5572
Telephone Number for information: 03-3255-0171
Date Prepared: JAN 14, 1992
Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Table with 5 columns: Hazardous Components (Specify Chemical Identity, Common Name(s)), OSHA PEL, ACGIH TLV, Other Limits Recommended, % (approx). Row 1: Mineral oil, -, -, -, 50

Section III - Physical/Chemical Characteristics

Table with 4 columns: Property, Value 1, Value 2, Value 3. Rows include Boiling Point (N/A, Approx. 1), Vapor Pressure (mm Hg) (N/A), Vapor Density (AIR = 1) (N/A), Solubility in Water (Insoluble), Appearance and Color (Magenta, Mild)

Section IV - Fire and Explosion Hazard Data

Table with 4 columns: Property, Flammable Limits, LEL, UEL. Rows include Flash Point (Method Used) (Over 200C (COC), N/A), Extinguishing Media (Water Fog, Foam, CO2 & Dry Chemical), Special Fire Fighting Procedures (Treat as oil fire.)

Unusual Fire and Explosion Hazards: Keep containers tightly closed. Isolate from heat sparks flames.

LA 323-14 2ND BM-3742-10

Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid	Excessive heat, sparks, or open flame.
	Stable	X	

Incompatibility (Materials to Avoid) Strong chemical oxidizing agents.

Hazardous Decomposition or Byproducts Thermal decomposition may release oxides of carbon and nitrogen.

Hazardous Polymerization	May Occur	Conditions to Avoid	N/A
	Will Not Occur	X	

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	N/A	Skin?	X	Ingestion?	X
Health Hazards (Acute and Chronic) Low hazard for industrial handling. Essentialy non-irritating to skin.						

Carcinogenicity:	NTP?	N/A	IARC Monographs?	IARC Animal carcinogens (Mineral oil)	OSHA Required?	N/A
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Signs and Symptoms of Exposure NONE

Medical Conditions Generally Aggravated by Exposure N/A

Emergency and First Aid Procedures In case of eye contact, flush with plenty of water.

For prolonged skin contact wash the affected skin areas thoroughly with soap and water. If swallowed, DO NOT induce vomiting, get medical attention. Remove to fresh air.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled
This is not a regulated product. Spills should be contained, absorbed, and placed in suitable container for disposal.

Waste Disposal Method Landfill or incinerate in accordance with applicable local, state federal environmental regulations.

Precautions to Be Taken in Handling and Storage
In accordance with good industrial work practice, handle with care, avoid spills, unnecessary contact, and wash throughtly after handling.

Other Precautions NONE

Section VIII - Control Measures

Respiratory Protection (Specify Type)				N/A	
Ventilation	Local Exhaust	N/A	Special	N/A	
	Mechanical (General)	Acceptable	Other	N/A	
Protective Gloves	Oil-proof gloves		Eye Protection	Safety goggles	
Other Protective Clothing or Equipment Not needed					
Work/Hygiene Practices Keep out of reach of children. Wash after handling.					

~~LA-323-15~~ ENDBM-3742-11

COLOR RIBBON
(YELLOW)

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

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



IDENTITY (As Used on Label and List)

Y-11102A4 INK

Note: Blank spaces are not permitted. If any item is not applicable, or no
information is available, the space must be marked to indicate this.

Section I

Manufacturer's Name HITACHI POWDERD METALS CO., LTD	Emergency Telephone Number 0470-76-5572
Address (Number, Street, City, State, and ZIP Code) No.16-8,3Chome, Sotokanda Chiyoda-ku	Telephone Number for Information 03-3255-0171
Tokyo 101, JAPAN	Date Prepared JAN 14, 1992
	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)
Mineral oil	-	-	-	50

Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (4yo = 1)	Approx. 1	
Vapor Pressure (mm Hg.)	N/A	Melting Point		NONZ
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)		N/A
Solubility in Water	Insoluble			
Appearance and Odor	Yellow, Mild			

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) Over 200C (COC)	Flammable Limits	N/A	LEL	N/A	UEL	N/A
Extinguishing Media	Water Fog, Foam, CO2 & Dry Chemical					
Special Fire Fighting Procedures	Treat as oil fire.					
Unusual Fire and Explosion Hazards	Keep containers tightly closed. Isolate from heat sparks flame.					

(Reproduce locally)

OSHA 174, Sept. 1983

LA 3-3-16 END BM-3742-12

Section V - Reactivity Data

Stability	UNstable	Conditions to Avoid	Excessive heat, sparks, or open flame.
	Stable	X	

Incompatibility (Materials to Avoid) Strong chemical oxidizing agents.

Hazardous Decomposition or Byproducts Thermal decomposition may release oxides of carbon and nitrogen.

Hazardous Polymerization	May Occur	Conditions to Avoid	N/A
	Will NOT Occur	X	

Section VI - Health Hazard Data

Routes of Entry:	Inhalation?	N/A	SKIN?	X	Ingestion?	X
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Health Hazards (Acute and Chronic) Low hazard for industrial handling. Essentialy non-irritating to skin.

Carcinogenicity:	NTP?	N/A	IARC Monographs?	IARC Animal carcinogens	CSHA Regulated?	N/A
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(Mineral oil)

Signs and Symptoms of Exposure NONE

Medical Conditions Generally Aggravated by Exposure N/A

Emergency and First Aid Procedures In case of eye contact, flush with plenty of water.

For prolonged skin contact wash the affected skin areas thoroughly with soap and water. If swallowed, DO NOT induce vomiting, get medical attention. Remove to fresh air.

Section VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled This is not a regulated product. Spills should be contained, absorbed, and placed in suitable container for disposal.

Waste Disposal Method Landfill or incinerate in accordance with applicable local, state federal environmental regulations.

Precautions to Be Taken in Handling and Storage In accordance with good industrial work practice, handle with care, avoid spills, unnecessary contact, and wash throughtly after handling.

Other Precautions NONE

Section VIII - Control Measures

Respiratory Protection (Specify Type) N/A				
Ventilation	Local Exhaust	N/A	Special	N/A
	General (Dilution)	Acceptable	Other	N/A
Protective Gloves	Oil-proof gloves	Eye Protection	Safety goggles	
Other Protective Clothing or Equipment	Not needed			
Work/Hygiene Practices	Keep out of reach of children. Wash after handling.			

ZND BM-3762-13/END

~~3-3-3-17/End~~