A Milacron Company

Dear Customer:

Enclosed is the **REVISED** Material Safety Data Sheet for our product:

D-M-E PRO WELD

The products we distribute are not normally hazardous in their natural state. However, steel does contain elements deemed by OSHA to be hazardous when released by manufacturing, such as brazing, burning, grinding, sawing or welding, etc. Failure to control dust and fumes can result in chronic health problems.

We believe the information, supplied by the Manufacturer, on the enclosed MSDS to be accurate; however, D-M-E makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability for the information so presented.

Should you require additional information, please call or write the Manufacturer listed on the MSDS.

Sincerely yours,

D-M-E Company
Director of Operations
Ken Jasina

Revised: May 2005

D-M-E Company ■ 29111 Stephenson Highway ■ Madison Heights, MI 48071 ■ Tel 248/398-6000 ■ Fax 248/544-5705

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non−Mandatory Form)
Form approved
OMB No.1218−0072

IDENTITY (As Used on Label and List)
no

cat.no.MD−600 Steel strip (NAK80)

Note: Blank spaces are not permitted. If any items is not applicable or information is available, the space must be marked to indicate that

Section I

Manufacturer's Name	Emergency Telephone Number
JAPAN TECHNO ENGINEERING CO., LTD.	03−3804−6760
Address (Number, Street, City, State and ZIP code)	Telephone number for information
201, 4−10, 6−CHOME, HIGASHI−KASAI EDOGAWA−KU, TOKYO 134, JAPAN	03−3804−6760
	Date Prepared, November 10, 2004
	Signature of Preparer (Optional)

Section II − Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s)) (optional)	OSHA PEL	ACGIH TLV	Other Limits Recommended	%

It is non−toxic, non−hazardous, non−flamable steel strip of ferrous alloy.
It is supplied in the form of 0.1mm thick x 5mm width x 100mm length in a plastic bag (10pcs. a pack).
Chemical compositions by weight %

Ni 3.01
Si 0.14
C 0.10
Fe 94.239
Mn 0.001
Cu 1.02
Mo 0.35
Al 0.63
O 0.51

Section III − Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV − Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extingushing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

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Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry.	Inhalation?	Skin ?	Ingestion ?
Nil	Nil	Nil	Nil

Health Hazards (Acute and Chronic)

Nil

Carcinogenicity	NTP?	IARC Monographs?	OSHA regulated ?
Nil	Nil	Nil	Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures

Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled

Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing

Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)

Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil	Eye protection a pair of glasses

Other Protrective Clothing or Equipment

Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)

cat.no.MA-50 Steel strip (NTA1)

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

Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)

It is non-toxic, non-hazardous, non-flamable steel strip of nickel-ferrous alloy.
It is supplied in the form of 0.1mm thick x 30mm width x 70mm length in a plastic bag (10pcs. a pack).
Chemical compositions by weight %

Ni 74.10
Cr 15.00
Si 5.00
C 0.30
B 0.60
Fe 5.00

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extingushing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid	nil
	Stable	x		

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid	nil
	Will Not Occur	x		

Section VI – Health Hazard Data

Route (s) of Entry.	Inhalation?	Skin ?	Ingestion ?
Nil	Nil	Nil	Nil

Health Hazards (Acute and Chronic)

Nil

Carcinogenicity	NTP?	IARC Monographs?	OSHA regulated ?
Nil	Nil	Nil	Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures

Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled

Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing

Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)

Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil	Eye protection a pair of glasses

Other Protrective Clothing or Equipment

Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)

cat.no.MA-51 Steel strip (NTA2)

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

Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)

It is non-toxic, non-hazardous, non-flamable steel strip of nickel-ferrous alloy.
It is supplied in the form of 0.2mm thick x 30mm width x 70mm length in a plastic bag (10pcs. a pack).
Chemical compositions by weight %

Ni 74.10
Cr 15.00
Si 5.00
C 0.30
B 0.60
Fe 5.00

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extingushing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry.	Inhalation?	Skin ?	Ingestion ?
Nil	Nil	Nil	Nil

Health Hazards (Acute and Chronic)

Nil

Carcinogenicity	NTP?	IARC Monographs?	OSHA regulated ?
Nil	Nil	Nil	Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures

Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled

Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing

Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)

Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil	Eye protection a pair of glasses

Other Protrective Clothing or Equipment

Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)

cat.no.MPS-10 Steel powder (SP51)

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

Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)

It is non-toxic, non-hazardous, non-flamable steel powder of ferrous alloy.
It is supplied in 50 grams plastic container.
Chemical compositions by weight %

Ni	0.12
Cr	4.06
Si	0.36
C	0.90
Fe	80.624
Mn	0.24
P	0.024
S	0.012
Cu	0.18
Mo	4.89
W	5.57
V	2.12
Co	0.90

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extinguishing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry.	Inhalation?	Skin ?	Ingestion ?
Nil	Nil	Nil	Nil

Health Hazards (Acute and Chronic)
Nil

Carcinogenicity	NTP?	IARC Monographs?	OSHA regulated ?
Nil	Nil	Nil	Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures
Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled
Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing
Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)
Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil	Eye protection a pair of glasses

Other Protrective Clothing or Equipment
Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)

cat.no.MPS-11 Steel powder (SP11)

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

Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)

It is non-toxic, non-hazardous, non-flamable steel powder of ferrous alloy.
It is supplied in 50 grams plastic container.
Chemical compositions by weight %

Ni 0.07
Cr 2.15
Si 0.29
C 1.49
Fe 83.937
Mn 0.39
P 0.009
S 0.004
Cu 0.03
Mo 1.03
W 0.30
V 0.30

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extinguishing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry. Inhalation? Skin ? Ingestion ?
Nil Nil Nil Nil

Health Hazards (Acute and Chronic)
Nil

Carcinogenicity NTP? IARC Monographs? OSHA regulated ?
Nil Nil Nil Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures
Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled
Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing
Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)
Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil | Eye protection a pair of glasses

Other Protrective Clothing or Equipment
Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)

cat.no.MPS-12 Steel powder (SP61)

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

Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)

It is non-toxic, non-hazardous, non-flamable stainless steel powder of Chromium-ferrous alloy.
It is supplied in 50 grams plastic container.
Chemical compositions by weight %

C 0.42
Si 1.20
Cr 5.50
Mn 0.5
P 0.03
S 0.03
Mo 1.50
V 1.20
Fe 89.65

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extingushing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry.	Inhalation?	Skin ?	Ingestion ?
Nil	Nil	Nil	Nil

Health Hazards (Acute and Chronic)

Nil

Carcinogenicity	NTP?	IARC Monographs?	OSHA regulated ?
Nil	Nil	Nil	Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures

Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled

Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing

Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)

Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil	Eye protection a pair of glasses

Other Protrective Clothing or Equipment

Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)

cat.no.MP-67 Steel powder (N11 - SKD11)

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

Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)

It is non-toxic, non-hazardous, non-flamable steel powder of ferrous alloy.
It is supplied in 50 grams plastic container.
Chemical compositions by weight %

Ni 0.07
Cr 12.15
Si 0.29
C 1.49
Fe 83.937
Mn 0.39
P 0.009
S 0.004
Cu 0.03
Mo 1.03
W 0.30
V 0.30

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extingushing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry.	Inhalation?	Skin ?	Ingestion ?
Nil	Nil	Nil	Nil

Health Hazards (Acute and Chronic)

Nil

Carcinogenicity	NTP?	IARC Monographs?	OSHA regulated ?
Nil	Nil	Nil	Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures

Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled

Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing

Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)

Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil	Eye protection a pair of glasses

Other Protrective Clothing or Equipment

Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)
no

cat.no.MP-72 Steel powder (N38)

Note: Blank spaces are not permitted. If any items is not applicable or information is available, the space must be marked to indicate that

Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s)) (optional)	OSHA PEL	ACGIH TLV	Other Limits Recommended	%

It is non-toxic, non-hazardous, non-flamable stainless steel powder of Nickel-Chromium-ferrous alloy.
It is supplied in 50 grams plastic container.
Chemical compositions by weight %

Cr 13.00
Mo 0.50
C 0.40
V 0.03
Fe 86.070

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extingushing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid	nil
	Stable	x		

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid	nil
	Will Not Occur	x		

Section VI – Health Hazard Data

Route (s) of Entry.	Inhalation?	Skin ?	Ingestion ?
Nil	Nil	Nil	Nil

Health Hazards (Acute and Chronic)

Nil

Carcinogenicity	NTP?	IARC Monographs?	OSHA regulated ?
Nil	Nil	Nil	Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures

Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled

Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing

Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)

Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil	Eye protection a pair of glasses

Other Protrective Clothing or Equipment

Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)

cat.no.MP-73 Steel powder (N39)

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

Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)

It is non-toxic, non-hazardous, non-flamable stainless steel powder of Nickel-Chromium-ferrous alloy.
It is supplied in 50 grams plastic container.
Chemical compositions by weight %

Cr 14.00
Mo 0.40
C 0.40
V 0.03
Fe 86.160

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extingushing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry.	Inhalation?	Skin ?	Ingestion ?
Nil	Nil	Nil	Nil

Health Hazards (Acute and Chronic)

Nil

Carcinogenicity	NTP?	IARC Monographs?	OSHA regulated ?
Nil	Nil	Nil	Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures

Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled

Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing

Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)

Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil	Eye protection a pair of glasses

Other Protrective Clothing or Equipment

Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)

cat.no.MP-60 Steel powder (N40)

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

Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)

It is non-toxic, non-hazardous, non-flamable stainless steel powder of Nickel-Chromium-ferrous alloy.
It is supplied in 50 grams plastic container.
Chemical compositions by weight %

Ni 84.97
Cr 5.00
Si 6.50
C 0.03
B 0.50
Fe 3.00

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extingushing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry.	Inhalation?	Skin ?	Ingestion ?
Nil	Nil	Nil	Nil

Health Hazards (Acute and Chronic)

Nil

Carcinogenicity	NTP?	IARC Monographs?	OSHA regulated ?
Nil	Nil	Nil	Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures

Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled

Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing

Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)

Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil	Eye protection a pair of glasses

Other Protrective Clothing or Equipment

Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)

cat.no.MP-62 Steel powder (N50)

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

Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)

It is non-toxic, non-hazardous, non-flamable stainless steel powder of Nickel-Chromium-ferrous alloy.
It is supplied in 50 grams plastic container.
Chemical compositions by weight %

Ni 81.55
Cr 8.00
Si 4.50
C 0.05
B 2.90
Fe 3.00

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extingushing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry. Inhalation? Skin ? Ingestion ?
Nil Nil Nil Nil

Health Hazards (Acute and Chronic)
Nil

Carcinogenicity NTP? IARC Monographs? OSHA regulated ?
Nil Nil Nil Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures
Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled
Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing
Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)
Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil | Eye protection a pair of glasses

Other Protrective Clothing or Equipment
Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)

cat.no.MP-68 Steel powder (N61)

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

Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)

It is non-toxic, non-hazardous, non-flamable stainless steel powder of Chromium-ferrous alloy.
It is supplied in 50 grams plastic container.
Chemical compositions by weight %

C 0.42
Si 1.20
Cr 5.50
Mn 0.5
P 0.03
S 0.03
Mo 1.50
V 1.20
Fe 89.65

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extinguishing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

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Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry.	Inhalation?	Skin ?	Ingestion ?
Nil	Nil	Nil	Nil

Health Hazards (Acute and Chronic)
Nil

Carcinogenicity	NTP?	IARC Monographs?	OSHA regulated ?
Nil	Nil	Nil	Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures

Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled
Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing
Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)
Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil	Eye protection a pair of glasses

Other Protrective Clothing or Equipment
Nil

Work/Hygienic Practices Nil

MATERIAL SAFETY DATA SHEET

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)

cat.no.MP-63 Steel powder (N13)

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Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)

It is non-toxic, non-hazardous, non-flamable stainless steel powder of Nickel-Chromium-ferrous alloy.
It is supplied in 50 grams plastic container.
Chemical compositions by weight %

Ni 87.85
Cr 5.00
Si 3.60
C 0.15
B 1.40
Fe 2.00

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extingushing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

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Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry. Inhalation? Skin ? Ingestion ?
Nil Nil Nil Nil

Health Hazards (Acute and Chronic)
Nil

Carcinogenicity NTP? IARC Monographs? OSHA regulated ?
Nil Nil Nil Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures
Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled
Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing
Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)
Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil | Eye protection a pair of glasses

Other Protrective Clothing or Equipment
Nil

Work/Hygienic Practices Nil

MATERIAL SAFETY DATA SHEET

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
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IDENTITY (As Used on Label and List)

cat.no.MP-61 Steel powder (N90)

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Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)

It is non-toxic, non-hazardous, non-flamable stainless steel powder of Nickel-Chromium-ferrous alloy.
It is supplied in 50 grams plastic container.
Chemical compositions by weight %

Ni 74.10
Cr 15.00
Si 5.00
C 0.30
B 0.60
Fe 5.00

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extingushing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry.	Inhalation?	Skin ?	Ingestion ?
Nil	Nil	Nil	Nil

Health Hazards (Acute and Chronic)

Nil

Carcinogenicity	NTP?	IARC Monographs?	OSHA regulated ?
Nil	Nil	Nil	Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures

Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled

Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing

Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)

Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil	Eye protection a pair of glasses

Other Protrective Clothing or Equipment

Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
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IDENTITY (As Used on Label and List)
no

cat.no.MPS-17 Steel powder (N14)

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Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s)) (optional)	OSHA PEL	ACGIH TLV	Other Limits Recommended	%

It is non-toxic, non-hazardous, non-flamable stainless steel powder of Chromium-ferrous alloy.
It is supplied in 50 grams plastic container.
Chemical compositions by weight %

C 0.18
Si 0.35
Cr 1.20
Mn 1.50
P 0.03
S 0.03
Mo 0.30
Fe 96.71

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extinguishing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry. Inhalation? Skin ? Ingestion ?
Nil Nil Nil Nil

Health Hazards (Acute and Chronic)
Nil

Carcinogenicity NTP? IARC Monographs? OSHA regulated ?
Nil Nil Nil Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures
Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled
Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing
Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)
Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil | Eye protection a pair of glasses

Other Protrective Clothing or Equipment
Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)
no

cat.no.MA-59 Steel strip (S5)

Note: Blank spaces are not permitted. If any items is not applicable or information is available, the space must be marked to indicate that

Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s)) (optional)	OSHA PEL	ACGIH TLV	Other Limits Recommended	%

It is non-toxic, non-hazardous, non-flamable steel strip of nickel-Chrome-ferrous alloy.
It is supplied in the form of 0.5mm diameter wire in 5 meter long rolled in a plastic bag.
Chemical compositions by weight %

Ni 6.0
Cr 16.00
Si 1.0
C 0.15
Mn 2.0
P 0.45
S 0.030
Fe 74.765

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extingushing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry.	Inhalation?	Skin ?	Ingestion ?
Nil	Nil	Nil	Nil

Health Hazards (Acute and Chronic)

Nil

Carcinogenicity	NTP?	IARC Monographs?	OSHA regulated ?
Nil	Nil	Nil	Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures

Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled

Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing

Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)

Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil	Eye protection a pair of glasses

Other Protrective Clothing or Equipment

Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
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IDENTITY (As Used on Label and List)
no

cat.no.MPS-18 Steel powder (N15)

Note: Blank spaces are not permitted. If any items is not applicable or information is available, the space must be marked to indicate that

Section I

Manufacturer's Name	Emergency Telephone Number
JAPAN TECHNO ENGINEERING CO., LTD.	03-3804-6760
Address (Number, Street, City, State and ZIP code)	Telephone number for information
201, 4-10, 6-CHOME, HIGASHI-KASAI EDOGAWA-KU, TOKYO 134, JAPAN	03-3804-6760
	Date Prepared, November 10, 2004
	Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s)) (optional)	OSHA PEL	ACGIH TLV	Other Limits Recommended	%

It is non-toxic, non-hazardous, non-flamable stainless steel powder of Chromium-ferrous alloy.
It is supplied in 50 grams plastic container.
Chemical compositions by weight %
C 0.35
Si 0.35
Cr 1.00
Mn 0.65
P 0.03
S 0.03
Cu 0.30
Ni..... 3.00
Fe 94.29

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extingushing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry.	Inhalation?	Skin ?	Ingestion ?
Nil	Nil	Nil	Nil

Health Hazards (Acute and Chronic)

Nil

Carcinogenicity	NTP?	IARC Monographs?	OSHA regulated ?
Nil	Nil	Nil	Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures

Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled

Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing

Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)

Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil	Eye protection a pair of glasses

Other Protrective Clothing or Equipment

Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)
no
cat.no.MPS-19 Steel powder (N16)

Note: Blank spaces are not permitted. If any items is not applicable or information is available, the space must be marked to indicate that

Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s)) (optional)	OSHA PEL	ACGIH TLV	Other Limits Recommended	%

It is non-toxic, non-hazardous, non-flamable stainless steel powder of Chromium-ferrous alloy.
It is supplied in 50 grams plastic container.
Chemical compositions by weight %
C 0.23
Si 0.35
Cr 0.65
Mn 0.90
P 0.03
S 0.03
Cu 0.30
Ni..... 0.70
Mo 0.30
Fe 96.51

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extingushing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry. Inhalation? Skin ? Ingestion ?
Nil Nil Nil Nil

Health Hazards (Acute and Chronic)
Nil

Carcinogenicity NTP? IARC Monographs? OSHA regulated ?
Nil Nil Nil Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures
Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled
Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing
Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)
Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil | Eye protection a pair of glasses

Other Protrective Clothing or Equipment
Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)

cat.no.MP-71 Steel powder (N55)

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

Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)

It is non-toxic, non-hazardous, non-flamable steel powder of ferrous alloy.
It is supplied in 50 grams plastic container.
Chemical compositions by weight %

Ni 3.02
Si 0.14
C 0.10
Fe 94.290
Mn 0.01
Cu 1.04
Mo 0.35
Al 0.55
O 0.50

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extingushing Media

nil

Special Fire Fighting Procedures

nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry. Inhalation? Skin ? Ingestion ?
Nil Nil Nil Nil

Health Hazards (Acute and Chronic)
Nil

Carcinogenicity NTP? IARC Monographs? OSHA regulated ?
Nil Nil Nil Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures
Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled
Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing
Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)
Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil | Eye protection a pair of glasses

Other Protrective Clothing or Equipment
Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)
no

cat.no.M-01 Steel strip (NT6)

Note: Blank spaces are not permitted. If any items is not applicable or information is available, the space must be marked to indicate that

Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information
03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s)) (optional)	OSHA PEL	ACGIH TLV	Other Limits Recommended	%

It is non-toxic, non-hazardous, non-flamable steel strip of ferrous alloy.
It is supplied in the form of 0.2mm thick x 5mm width x 100mm length in a plastic bag (10pcs. a pack) .
Chemical compositions by weight %

C 0.18
Si 0.65
Cr 0.75
Mn 1.25
P 0.035
S 0.035
Cu 0.50
Ni 0.30
Fe 96.30

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extingushing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry. Inhalation? Skin ? Ingestion ?
Nil Nil Nil Nil

Health Hazards (Acute and Chronic)
Nil

Carcinogenicity NTP? IARC Monographs? OSHA regulated ?
Nil Nil Nil Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures
Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled
Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing
Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)
Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil | Eye protection a pair of glasses

Other Protrective Clothing or Equipment
Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)
no

cat.no.MA-54 Steel strip (NS1)

Note: Blank spaces are not permitted. If any items is not applicable or information is available, the space must be marked to indicate that

Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s)) (optional)	OSHA PEL	ACGIH TLV	Other Limits Recommended	%

It is non-toxic, non-hazardous, non-flamable steel strip of nickel-Chrome-ferrous alloy.
It is supplied in the form of 0.1mm thick x 30mm width x 70mm length in a plastic bag (10pcs. a pack).
Chemical compositions by weight %

Ni 6.0
Cr 16.00
Si 1.0
C 0.15
Mn 2.0
P 0.45
S 0.030
Fe 74.765

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extinguishing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry. Inhalation? Skin ? Ingestion ?
Nil Nil Nil Nil

Health Hazards (Acute and Chronic)
Nil

Carcinogenicity NTP? IARC Monographs? OSHA regulated ?
Nil Nil Nil Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures
Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled
Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing
Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)
Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil | Eye protection a pair of glasses

Other Protrective Clothing or Equipment
Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)
no

cat.no.MA-55 Steel strip (NS2)

Note: Blank spaces are not permitted. If any items is not applicable or information is available, the space must be marked to indicate that

Section I

Manufacturer's Name	Emergency Telephone Number
JAPAN TECHNO ENGINEERING CO., LTD.	03-3804-6760
Address (Number, Street, City, State and ZIP code)	Telephone number for information
201, 4-10, 6-CHOME, HIGASHI-KASAI EDOGAWA-KU, TOKYO 134, JAPAN	03-3804-6760
	Date Prepared, May 7, 1997
	Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s)) (optional)	OSHA PEL	ACGIH TLV	Other Limits Recommended	%

It is non-toxic, non-hazardous, non-flamable steel strip of nickel-Chrome-ferrous alloy.
It is supplied in the form of 0.2mm thick x 30mm width x 70mm length in a plastic bag (10pcs. a pack).
Chemical compositions by weight %

Ni 6.0
Cr 16.00
Si 1.0
C 0.15
Mn 2.0
P 0.45
S 0.030
Fe 74.765

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extinguishing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry. Inhalation? Skin ? Ingestion ?
Nil Nil Nil Nil

Health Hazards (Acute and Chronic)
Nil

Carcinogenicity NTP? IARC Monographs? OSHA regulated ?
Nil Nil Nil Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures
Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled
Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing
Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)
Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil | Eye protection a pair of glasses

Other Protrective Clothing or Equipment
Nil

Work/Hygienic Practices Nil

MATERIAL SAFETY DATA SHEET 31-9203

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)
no

cat.no.MD-102 Steel strip (HPM50)

Note: Blank spaces are not permitted. If any items is not applicable or information is available, the space must be marked to indicate that

Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s)) (optional)	OSHA PEL	ACGIH TLV	Other Limits Recommended	%

It is non-toxic, non-hazardous, non-flamable steel strip of ferrous alloy.
It is supplied in the form of 0.2mm thick x 5mm width x 100mm length in a plastic bag (10pcs. a pack).
Chemical compositions by weight %

Ni 3.01
Si 0.14
C 0.10
Fe 94.239
Mn 0.001
Cu 1.02
Mo 0.35
Al 0.63
O 0.51

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extingushing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry. Inhalation? Skin ? Ingestion ?
Nil Nil Nil Nil

Health Hazards (Acute and Chronic)
Nil

Carcinogenicity NTP? IARC Monographs? OSHA regulated ?
Nil Nil Nil Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures
Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled
Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing
Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)
Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil | Eye protection a pair of glasses

Other Protrective Clothing or Equipment
Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)
no

cat.no.MD-107 Steel strip (HPM38)

Note: Blank spaces are not permitted. If any items is not applicable or information is available, the space must be marked to indicate that

Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s)) (optional)	OSHA PEL	ACGIH TLV	Other Limits Recommended	%

It is non-toxic, non-hazardous, non-flamable steel strip of ferrous alloy.
It is supplied in the form of 0.2mm thick x 5mm width x 100mm length in a plastic bag (10pcs. a pack) .
Chemical compositions by weight %

C 0.38
Fe 84.32
Si 0.9
Mn 0.5
V 0.3
Cr 13.6

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extinguishing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry. Inhalation? Skin ? Ingestion ?
Nil Nil Nil Nil

Health Hazards (Acute and Chronic)
Nil

Carcinogenicity NTP? IARC Monographs? OSHA regulated ?
Nil Nil Nil Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures
Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled
Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing
Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)
Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil | Eye protection a pair of glasses

Other Protrective Clothing or Equipment
Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)
no

cat.no.MD-104 Steel strip (STAVAX)

Note: Blank spaces are not permitted. If any items is not applicable or information is available, the space must be marked to indicate that

Section I

Manufacturer's Name	Emergency Telephone Number
JAPAN TECHNO ENGINEERING CO., LTD.	03-3804-6760
Address (Number, Street, City, State and ZIP code)	**Telephone number for information**
201, 4-10, 6-CHOME, HIGASHI-KASAI EDOGAWA-KU, TOKYO 134, JAPAN	03-3804-6760
	Date Prepared, November 10, 2004
	Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s)) (optional)	OSHA PEL	ACGIH TLV	Other Limits Recommended	%

It is non-toxic, non-hazardous, non-flamable steel strip of ferrous alloy.
It is supplied in the form of 0.2mm thick x 5mm width x 100mm length in a plastic bag (10pcs. a pack).
Chemical compositions by weight %

C 0.38
Fe 84.32
Si 0.9
Mn 0.5
V 0.3
Cr 13.6

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extingushing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry. Inhalation? Skin ? Ingestion ?
Nil Nil Nil Nil

Health Hazards (Acute and Chronic)
Nil

Carcinogenicity NTP? IARC Monographs? OSHA regulated ?
Nil Nil Nil Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures
Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled
Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing
Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)
Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil | Eye protection a pair of glasses

Other Protrective Clothing or Equipment
Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)

cat.no.MD-101 Steel strip (HPM2)

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

Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)
201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information
03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)

It is non-toxic, non-hazardous, non-flamable steel strip of ferrous alloy.
It is supplied in the form of 0.2mm thick x 5mm width x 100mm length in a plastic bag (10pcs. a pack).
Chemical compositions by weight %

Si 0.4
C 0.4
Fe 95.6
Mn 1.5
Cr 1.9
Mo 0.2

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extinguishing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry. Inhalation? Skin ? Ingestion ?
Nil Nil Nil Nil

Health Hazards (Acute and Chronic)
Nil

Carcinogenicity NTP? IARC Monographs? OSHA regulated ?
Nil Nil Nil Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures
Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled
Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing
Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)
Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil | Eye protection a pair of glasses

Other Protrective Clothing or Equipment
Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)
no

cat.no.MD-103 Steel strip (MAS1)

Note: Blank spaces are not permitted. If any items is not applicable or information is available, the space must be marked to indicate that

Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information
03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s)) (optional)	OSHA PEL	ACGIH TLV	Other Limits Recommended	%

It is non-toxic, non-hazardous, non-flamable steel strip of ferrous alloy.
It is supplied in the form of 0.2mm thick x 5mm width x 100mm length in a plastic bag (10pcs. a pack).
Chemical compositions by weight %

Ni 18.5
C 0.03
Fe 76.111
Mo 5.0
Co 0.001
Mo 0.35
Al 0.005
Ti 0.002

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extingushing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry. Inhalation? Skin ? Ingestion ?
Nil Nil Nil Nil

Health Hazards (Acute and Chronic)
Nil

Carcinogenicity NTP? IARC Monographs? OSHA regulated ?
Nil Nil Nil Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures
Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled
Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing
Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)
Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil | Eye protection a pair of glasses

Other Protrective Clothing or Equipment
Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)
no

cat.no.MD-106 Steel strip (NAK55)

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Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s)) (optional)	OSHA PEL	ACGIH TLV	Other Limits Recommended	%

It is non-toxic, non-hazardous, non-flamable steel strip of ferrous alloy.
It is supplied in the form of 0.2mm thick x 5mm width x 100mm length in a plastic bag (10pcs. a pack).
Chemical compositions by weight %
Ni 3.02
Si 0.14
C 0.10
Fe 94.290
Mn 0.01
Cu 1.04
Mo 0.35
Al 0.55
O 0.50

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extinguishing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry. Inhalation? Skin ? Ingestion ?
Nil Nil Nil Nil

Health Hazards (Acute and Chronic)
Nil

Carcinogenicity NTP? IARC Monographs? OSHA regulated ?
Nil Nil Nil Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures
Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled
Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing
Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)
Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil | Eye protection a pair of glasses

Other Protrective Clothing or Equipment
Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)
no

cat.no.MA-56 Steel strip (S2)

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Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s)) (optional)	OSHA PEL	ACGIH TLV	Other Limits Recommended	%

It is non-toxic, non-hazardous, non-flamable steel strip of nickel-Chrome-ferrous alloy.
It is supplied in the form of 0.2mm diameter wire in 5 meter long rolled in a plastic bag.
Chemical compositions by weight %

Ni 6.0
Cr 16.00
Si 1.0
C 0.15
Mn 2.0
P 0.45
S 0.030
Fe 74.765

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extinguishing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry. Inhalation? Skin ? Ingestion ?
Nil Nil Nil Nil

Health Hazards (Acute and Chronic)
Nil

Carcinogenicity NTP? IARC Monographs? OSHA regulated ?
Nil Nil Nil Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures
Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled
Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing
Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)
Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil | Eye protection a pair of glasses

Other Protrective Clothing or Equipment
Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)
no

cat.no.MA-57 Steel strip (S3)

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Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s)) (optional)	OSHA PEL	ACGIH TLV	Other Limits Recommended	%

It is non-toxic, non-hazardous, non-flamable steel strip of nickel-Chrome-ferrous alloy.
It is supplied in the form of 0.3mm diameter wire in 5 meter long rolled in a plastic bag.
Chemical compositions by weight %

Ni 6.0
Cr 16.00
Si 1.0
C 0.15
Mn 2.0
P 0.45
S 0.030
Fe 74.765

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extinguishing Media
nil

Special Fire Fighting Procedures
nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry. Inhalation? Skin ? Ingestion ?
Nil Nil Nil Nil

Health Hazards (Acute and Chronic)
Nil

Carcinogenicity NTP? IARC Monographs? OSHA regulated ?
Nil Nil Nil Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures
Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled
Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing
Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)
Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil | Eye protection a pair of glasses

Other Protrective Clothing or Equipment
Nil

Work/Hygienic Practices Nil

Material Safety Data Sheet
Maybe used to comply with
OSHA's Hazard Communication Standard.
29 CFR 1910.1200. Standard must be
consulted for specific requirement.

U.S. Department of Labor
Occupational Safety and Health Administation
(Non-Mandatory Form)
Form approved
OMB No.1218-0072

IDENTITY (As Used on Label and List)
no

cat.no.MA-58 Steel strip (S4)

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Section I

Manufacturer's Name
JAPAN TECHNO ENGINEERING CO., LTD.

Emergency Telephone Number
03-3804-6760

Address (Number, Street, City, State and ZIP code)

201, 4-10, 6-CHOME, HIGASHI-KASAI
EDOGAWA-KU, TOKYO 134, JAPAN

Telephone number for information

03-3804-6760

Date Prepared, November 10, 2004

Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity information

Hazardous Components (Specific Chemical Identity, Common Names (s)) (optional)	OSHA PEL	ACGIH TLV	Other Limits Recommended	%

It is non-toxic, non-hazardous, non-flamable steel strip of nickel-Chrome-ferrous alloy.
It is supplied in the form of 0.4mm diameter wire in 5 meter long rolled in a plastic bag.
Chemical compositions by weight %

Ni 6.0
Cr 16.00
Si 1.0
C 0.15
Mn 2.0
P 0.45
S 0.030
Fe 74.765

Section III - Physical/Chemical Characteristics

Boiling Point	Nil	Specific Gravity (H2O=1)	7.8
Vapor Pressure (mm Hg.)	Nil	Meltint Point	1.530 ℃
Vapor Density (AIR=1)	Nil	Evaporaton Rate (Butyl Acetate = 1)	Nil

Soluble in Water unsoluble

Appearance and Odor bright steel color and no odor

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
nil	nil		

Extingushing Media

nil

Special Fire Fighting Procedures

nil

Unusual Fire and Explosion Hazards nil

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid nil
	Stable	x	

Incompatibility (Materials to Avoid) nil

Hazardous Decomposition or Byproducts nil

Hazardous Polymerization	May Occur		Conditions to Avoid nil
	Will Not Occur	x	

Section VI – Health Hazard Data

Route (s) of Entry. Inhalation? Skin ? Ingestion ?
Nil Nil Nil Nil

Health Hazards (Acute and Chronic)
Nil

Carcinogenicity NTP? IARC Monographs? OSHA regulated ?
Nil Nil Nil Nil

Signs and Symptoms of Exposure Nil

Medical Conditions
Generally aggravated by Exposure Nil

Emergency and First Aid Procedures
Nil

Section VII – Precautions for Safe Handling and Use

Step to Be Taken in Case Material is Released or Spilled
Nil

Waste Disposal Method diposable as common refuse.

Precautions to Be Taken in Handling and Storing
Nil

Other Precautions

Section VIII – Control Measures

Respiratory Protection (Specify Type)
Nil

Ventilation	Local Exhaust Nil	Special Nil
	Mechanical (General) Nil	Other Nil

Protective Gloves Nil	Eye protection a pair of glasses

Other Protrective Clothing or Equipment
Nil

Work/Hygienic Practices Nil