

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) DEVELOPER FOR DC-191
DC-181R, DC-312RE, DC-412RE, DC-1824

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

HITA INDUSTRIAL CO., LTD.

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

2-28 TAMATSUKURI, 1 CHOME

HIGASHI-KU, OSAKA, JAPAN

Emergency Telephone Number
(201)-288-6900

Telephone Number for Information
(201)-288-6900

Date Prepared

NOVEMBER 15, 1985

Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
CAS. NO.	PEL: RESPIRABLE DUST	TOTAL DUST		
METAL IRON	2mg/m ³	8mg/m ³	MORE THAN	80%
7439-89-6				
TONER FOR DC-191	2mg/m ³	8mg/m ³	LESS THAN	20%

Section III — Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	5.01
Vapor Pressure (mm Hg.)	N/A	Melting Point	N/A
Vapor Density (Air = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)	N/A
Solubility in Water	INSOLUBLE		

Appearance and Odor

FINE BLACK POWDER, PRACTICALLY ODORLESS.

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
HIGHER THAN 350°	N/A		
Extinguishing Media	IF PRODUCT BECOMES INVOLVED IN A FIRE, USE CARBON DIOXIDE		
Special Fire Fighting Procedures	WATER, FOAM, OR DRY CHEMICALS.		

Unusual Fire and Explosion Hazards

NONE UNDER NORMAL STORAGE AND USE CONDITIONS.

Section V — Reactivity Data

Stability	Unstable	X	Conditions to Avoid NONE
	Stable		

Incompatibility (Materials to Avoid) NONE

Hazardous Decomposition or Byproducts NONE IN NORMAL HANDLING AND USE.

Hazardous Polymerization	May Occur	X	Conditions to Avoid NONE
	Will Not Occur		

Section VI — Health Hazard Data

Route(s) of Entry:	Inhalation? RARE	Skin? MAY OCCUR	Ingestion? SHOULD NOT OCCUR
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Health Hazards (Acute and Chronic) NONE IN NORMAL HANDLING AND USE.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
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AMES TEST RESULT IS NEGATIVE.

Signs and Symptoms of Exposure NONE IN NORMAL HANDLING AND USE.

Medical Conditions Generally Aggravated by Exposure	EYE CONTACT:	FLUSH EYES THOROUGHLY WITH WATER. SEEK MEDICAL TREATMENT.
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Emergency and First Aid Procedures	INHALATION:	REMOVE FROM EXPOSURE.
	INGESTION:	DILUTE STOMACH CONTENTS WITH SEVERAL GLASSES OF WATER. SEEK MEDICAL TREATMENT.

SKIN CONTACT: NORMAL WASHING WITH SOAP AND WATER.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled
SWEEP UP OR PICK UP BY VACUUM CLEANER. DUST FILTER RESPIRATOR REQUIRED
WHEN TLV EXCEEDED.

Waste Disposal Method
INSOLUBLE IN WATER. DISPOSE OF IN CONFORMITY WITH FEDERAL, STATE AND
LOCAL REGULATIONS.

Precautions to Be Taken in Handling and Storing
KEEP CONTAINERS CLOSED. STORE IN A COOL, DRY PLACE.

Other Precautions
DO NOT STORE NEAR COMBUSTIBLES OR HEAT SOURCES.

Section VIII — Control Measures

Respiratory Protection (Specify Type)
NORMALLY NOT REQUIRED.

Ventilation	Local Exhaust NORMALLY NOT REQUIRED.	Special NORMALLY NOT REQUIRED.
	Mechanical (General) NORMALLY NOT REQUIRED.	Other NORMALLY NOT REQUIRED.

Protective Gloves NORMALLY NOT REQUIRED	Eye Protection NORMALLY NOT REQUIRED.
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Other Protective Clothing or Equipment
GLOVES AND DUST FILTER RESPIRATOR RECOMMENDED WHEN HANDLING BULK AMOUNTS.

Work/Hygienic Practices
CLEANSE ROOM THOROUGHLY IN COURSE OF OPERATING. MINIMIZE BREATHING DUST.