

Original Release Date: 12-08-05

Issue:

Revised Date:

Section I - Company / Product Identity

Product Identification: HP4000 - MICR TN1950-MICR

Company: Turbon Group

2704 Cindel Drive HAZARD RANKING: 0 = Least 1 = Slight

Cinnaminson, New Jersey 08077 2 = Moderate 3 = High 4 = Extreme

HMIS HAZARD CLASS:

Telephone: 1-800-282-6650 Health = 0 **Fax:** 1-856-786-6806 Flammability = 1

Contact Person: Safety / Environmental Representative Reactivity = 0

PPE = Section VIII

Section II - Composition / Ingredients

This product consists of new and remanufactured parts that are originally manufactured by the OEM.

The cartridge consists of light sensitive drum, toner, a developer unit and several blades.

Main components:

Plastics: PE, PP, PS, ABS, PU, Acetal, mixed with FR

Metals: Iron, Sheet steel. Some components electrolyze nickel-plated.

Non-metals: Aluminum

Foam: Expanded polyuthane, polyester base

Elastomer: Polyurethane

The toner used in this cartridge consists of the following components.

<u>Description</u>	CAS number	Percent	R+S phrase	<u>Symbol</u>
Styrene Acrylate Co-polymer	25153-46-2	N/A	None assigned	None assigned
Styrene Butadiene Resin	9003-55-8	N/A	None assigned	None assigned
Polyester Resin	(Proprietary)	N/A	None assigned	None assigned
Magnetic Iron Oxide	1317619	N/A	None assigned	None assigned
Charge Control Agent	84179-66-8	N/A	None assigned	None assigned
Polypropylene Wax	9003-07-0	N/A	None assigned	None assigned

N/A = Not Available

The drum used in this cartridge consists of the following components.

Description	CAS number	Percent	R+S phrase	<u>Symbol</u>
Substrate: Al-cylinder	None assigned	> 99%	None assigned	None assigned
Coating: Organic photoconductor	None assigned	< 1%	None assigned	None assigned

Section III - Hazards Identification

Primary entry routes:

Inhalation: Slight irritation of respiratory tract.

Ingestion: None known.

Skin contact: Repeated contact may cause irritation or an allergic skin reaction.

Eyes effects: May cause irritation

Chronic effects: Not known

Potential environmental hazard:

No particular hazards known. The cartridge is made in accordance with all known legal requirements.

Section IV - First Aid Measures

Inhalation: Remove person to fresh air. If symptoms persists consult a physician.

Ingestion: Rinse mouth with water and drink one or two glasses of water. If symptoms occur, call a physician.

If symptoms persists consult a physician.

Skin contact: Wash well with soap and running water.

Eyes contact: Immediately flush with large amounts of clean lukewarm, low pressure water for at least 15

minutes. If irritation persists, consult a physician. Remove any contact lenses to facilitate flushing.

Section V - Fire and Explosion Measures

Flash point: No data available. Ignition temperature: No data available.

Flammability Non-flammable solid according to USA 16 CFR 1500.44 and 84/449/EC 5th adaptation.

Flammability limits No data available.

Extinguishing media: Water, foam, CO², dry chemicals.

Special fire fighting procedures: To avoid inhalation of toxic fumes, wear MHSA/NIOSH approved self contained breathing

apparatus.

Un-usual fire / explosion hazards: Toner may cause a dust explosion. Explosive limits of toner particles suspended in air are

equal to coal dust.

Section VI - Accidental Release Measures

Spill and leakage procedures: Wear personal protective equipment. Avoid breathing dust. Minimize the release of

particles. Vacuum or sweep the material into a bag or other sealed container. If a vacuum

cleaner is used, the motor must be rated as dust tight. Dispose of waste toner in

accordance with local requirements.

Environmental precautions: Do not discharge into drains.

Section VII - Handling and Storage

Advise on safe handling and protection against fire:

Keep material out of reach of children. Avoid inhalation of dust and contact with eyes. Keep away from excessive heat, sparks and open flames.

Requirements for storage rooms and advise on storage compatibility:

Keep out of reach of children. Keep container closed and store at room temperature. Keep away from strong oxidizers.

Section VIII - Exposure Limits / Personal Protection

USA OSHA (TWA) / PEL: 15 mg/m3 (Total Dust)

5 mg/m3 (Respirable Fraction)

ACGIH (TWA / TLV) 10 mg/m3 (Inhalable Particulate)

3 mg/m3 (Respirable Particulate)

DFG (MAK) 6 mg/m3 (Dust Concentration) Respiratory protection: Not required under intended use.

Ventilation: General ventilation should be sufficient under intended use.

Protective gloves: Not required under intended use. Eye protection: Not required under intended use. Other protective equipment: Not required under intended use.

Physical and Chemical Properties Section IX -

Boiling point: Not applicable

Melting point: 100° - 150° Celsius (softening point)

Particle size: 7 - 12 um nominal

Vapor pressure: Negligible Solubility in water: Negligible Not applicable Vapor density (air =1) Evaporation rate: Not applicable

Color: Black

Appearance: Very fine powder Odor: Slight plastic odor

Section X - Stability and Reactivity

Stability: Stable

Incompatibility: Strong oxidizers

Hazardous decomposition Combustion will produce carbon dioxide and possibly toxic chemicals such as carbon

products:

monoxide. Hazardous polymerization: Will not occur.

Section XI - Toxicological Information

Toxicological info according to OSHA Hazard communication standard and commission directive 67/548/EEG.

Toner: Ames test: Negative. (mutagenicity test from Prof. Ames, Berkeley University California,

USA)

Ingestion: Not toxic. Eye contact: Not toxic. Skin contact: Not toxic.

Chronic toxicity: No data available. Carcinogenicity: Not carcinogenic. Chronic health hazard comments No data available.

Exposure limit: Not known. Inhalation: Not toxic.

Ames test: Negative. (mutagenicity test from Prof. Ames, Berkeley University California, Drum:

USA)

Ingestion: Not toxic. Eve contact: Not toxic. Skin contact: Not toxic. Chronic toxicity: Not toxic. Carcinogenicity: Not known. Chronic health hazard comments None. Not known. Exposure limit: Inhalation: Not toxic.

Section XII - Ecological Information

Avoid spills and dispose of in accordance with applicable laws and regulations.

Section XIII - Disposal Considerations

Contact your local Turbon dealer for returning your used and empty cartridges.

Tel: 800 -282-6650 Fax: 800 -257-1619

Section XIV - Transport Information

International transport information:

UN no.: None UN shipping name: None Hazards class: None Packing group: None Special precautions: None

Section XV - Other Information

New components are purchased from international reputable producers. The information in this MSDS is based on our present state of knowledge.

In normal use there are no exceptional health, safety or fire hazards associated with this range of products. Please obey the usage and storage instructions.