DATE: 06/01/1992 MSDS NO.: PPC-002

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MATERIAL SAFETY NIVU SHEET

RAMSEY, NJ 07446 101 WILLIAMS DRIVE MINOLTA CORPORATION

> IMERCIENCY TEL. NO. CONTINCT YOUR RESCIONAL POISON

INFORMATION TEL. CONTROL CENTER

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201-825-4000

S ECTION ---PRODUCT IDENTIFICATION

EQUIPMENT NO.

PRODUCT : HT TONEX II

B²2151, F1950, EP5401, MP4233, EP425Z, EP5320, EF4300, 昭3120, 凹450, EP270, 四5420 EP3150, LP4301, EP490Z, EP370, HP4320, EP3170, EP2100, EP370Z, 四4321, EP4210, EP2120, EP410Z, EP4230, LP2121, EP415Z, EP5400

 $\zeta \gamma$ ECTION \aleph 1 PRODUCT NND DNA COMPONENT HAZARD DATA

INGREDIENT Styrene acrylate copolymer Toner, as a mixture, is considered a nuisance dust As total nuisance dust Polypropylene Organic pigment Copper oxide Carbon black 9003-07-0 1333-86-4 1317-38-0 CAS NO. N.∧P. 3.5mg/m3 N.AP. N.∧ď. N. AP. 15mg/m3 OSIIA PIIL-TWA 10mg/m3 3.5mg/m3 N.AP. N.AP. N.AP. H. AP. WALL-ATI. III DOW >80 % 5-10 % 1-5 % 1-5 7-3

95 95

HMIS RATING: HEALTH : 0 FLAMMABILITY: REACTIVITY:

SECTION ω EMERGENCY AND לבי ---RS ---AID

INHALATION : Wash nostrils, rinse mouth.

INCESTION Dilute stomach contents with several glasses of water.

EYES Flush with water for 15 minutes

SKIN Wash with soap and water.

PRIMARY ROUTE OF ENTRY : Inhalation

SYMPTOMS OF OVEREXPOSURE

ACUTE: Minimal respiratory tract irritation may occur as with exposure to large amounts

of any nontoxic dust. May cause cough and raise phlegm.

CHRONIC : None

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SECTION ۵, TOXICOLOGY AND HEALTH INFORMATION

HEALTH HAZARDS : Toner presents a low hazard for usual occupational settings. Based on available data, human toner that was ten times more respirable than commercially available toner were observed to with large amounts of any non-toxic dusts. The results of one animal study where rats inhale exposure to toner has been shown to cause minimal respiratory tract irritation as may occur

have no lung changes at low exposures (the most relevant level to potential human exposures

dust retained in the lungs for a prolonged interval. At higher levels a slight degree of lung fibrosis was observed due to excessive amounts of

ORAL LD50 >5.0 g/kg (Rats)

DERMAL LD50 : >2.0 g/kg (Rats)

INHALATION LC50 : >1.8 g/m3 (Rats) for 4-hours

(This was the highest attainable concentration. There were no deaths during the study.)

EYE IRRITANT : Not an irritant (Rabbits)

SKIN IRRITANT : Not an irritant. (Rabbits)

SKIN SENSITIZER : Almost none (Guinea-pig)

MUTAGENICITY No mutagenicity detected in Ames Assay.

CARCINOGENICITY : NTP : Not listed. [ARC MUNOGRAPHS : Not listed.

OSHA REGULATED : Not listed.

SECTION CI 1 PHYSICAL DATA

APPEARANCE AND ODOR Black powder, faint odor

BOILING POINT (°C) N.AP.

VAPOR PRESSURE (mails) N. AP.

VAPOR DENSITY (AIR=1) SOLUBILITY IN WATER : Negligible

N.∧P.

SPECIFIC GRAVITY (H20=1) : 1.2

EVAPORATION RATE : N.₽.

MELTING POINT (°C) N. AV.

SECTION တ FIRE AND EXPLOSION DATA

FLASH POINT & METHOD : N.AP.

FLAMMABLE LIMITS IN AIR :

LEL: N.AP.

UEL: N.AP.

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EXTINGUISHING MEDIA: Water, foam, dry chemical SPECIAL FIREFIGHTING PROCEDURES : Avoid inhalation of smoke

FIRE AND EXPLOSION HAZARDS : If dispersed in air, Toner, like most finely divided organic powders,

may form an explosive mixture.

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SECTION ~ 1 REACTIVITY DATA

STABILITY: UNSTABLE:

STABLE : X

CONDITIONS TO AVOID : None.

INCOMPATIBILITIES : None

HAZARDOUS DECOMPOSITION BYPRODUCTS : Products of combustion are toxic. Avoid breathing of smoke.

HAZARDOUS POLYMERIZATION:

MAY OCCUR :

WILL NOT OCCUR : ><

CONDITIONS TO AVOID : None

S ECTION ∞ 7 ERSONAL PROTECTION AND CONTROLS

VENTILATION: MECHANICAL (GENERAL) : N.AP.

RESPIRATORY PROTECTION: None required when used as intended in Minolta equipment.

PROTECTIVE GLOVES None required when used as intended in Minolta equipment.

EXE PROTECTION None required when used as intended in Minolta equipment

WORK PRACTICES : None.

SECTION 9 SAFE HANDL ING AND S [4] PRECAUTIONS

HANDLING AND STORAGE : None.

S ECTION 10 SPILL, LEAK AND DISPOSAL PROCEDURES

FOR SPILLS AND LEAKAGE: If spilled, sweep up or vacuum.

WASTE DISPOSAL METHOD Weste way be disposed or incinerated under conditions which meet

all federal, state and local environmental regulations

S ECTION ---1 TRANSPORTATION

D.O.T. SHIPPING NAME: Not regulated. IIAZARD CLASSIFICATION : N.AP.

I.D. NUMBER : N. AP.

N. AP. Not available Not applicable