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Material Safety Data Sheet

(This Form is Similar to U.S. Labor Dept. Form Approved OMB No. 1218-0072)

4620/5068
 FP-3007/3030/3037/3040/46
MAGNEFINE TONER

SECTION I

Date : Jan. 8, 1988

| | |
|--|---|
| Product Name Parasonic Developer PQ-2109-P | Chemical Name & Synonyms Electrostatic Developer |
| Product Class Inert resinated black powder | Emergency Phone No. Matsushita Electric Industrial Co., Ltd. Japan 0286-63-3221 |

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

| Hazardous Components INGREDIENTS (CHEMICAL NAME) | CAS # | % | (L: listed, NL: not listed.) LISTED AS A HAZARDOUS | | | |
|--|------------|-------|---|-----------------------|-------|-----------------------|
| | | | OSHA | OSHA PEL | ACGIH | ACGIH TLV |
| Carbon Black | 1333-86-4 | 1-5 | L | 3.5mg/m ³ | L | 3.5mg/m ³ |
| Magpetite | 1309-38-2 | 65-70 | NL | NL | NL | NL |
| Manganese Oxide Particle | 1313-13-9 | | L | 5.0mg/m ³ | L | 5.0mg/m ³ |
| Resin | 25086-16-2 | 20-25 | NL | NL | NL | NL |
| Resin | 9003-07-0 | | NL | NL | NL | NL |
| Resin | 35882-25-7 | | NL | NL | NL | NL |
| Additive | 72869-85-3 | (1 | NL | NL | L | 0.5mg/m ³ |
| Additive | 7631-86-8 | (1 | L | 20.0mg/m ³ | L | 10.0mg/m ³ |

TLV of the Product: 10 mg/m³ (Total Dust), 5 mg/m³ (Respirable)
 PEL of the Product: 15 mg/m³ (Total Dust), 5 mg/m³ (Respirable)

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

| | | | |
|-------------------------|---|--|-----------------|
| Boiling Point | Not applicable. | Specific Gravity (G ₂₀ = D) | 2.5 |
| Vapor Pressure (mm Hg.) | Not applicable. | Melting Point | Not applicable. |
| Vapor Density (AIR = 1) | Not applicable. | Evaporation Rate (Butyl Acetate = 1) | Not applicable. |
| Solubility in Water | Insoluble. | | |
| Appearance and Odor | Fine black powder, practically odourless. | | |

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

| | | | |
|------------------------------------|--|------------------|-----------------|
| Flash Point (Method Used) | Not applicable. | Flammable Limits | Not applicable. |
| Extinguishing Media | Water, CO ₂ , Foam, Dry Chemical. | | |
| Special Fire Fighting Procedures | Not flammable or combustible but will burn if ignited. Extinguish with water, CO ₂ , form, dry chemical. | | |
| Unusual Fire and Explosion Hazards | None under normal storage and use conditions. | | |

SECTION V - REACTIVITY DATA

MAGNEFINE TONER 4630/5060 (6)

| | | | | |
|---------------------------------------|----------------|---|--------------------|------------------------------|
| Stability | Unstable | | Condition to Avoid | Abnormally high temperature. |
| | Stable | ✓ | | |
| Incompatibility (Materials to Avoid) | | | | |
| None. | | | | |
| Hazardous Decomposition or Byproducts | | | | |
| None in normal handling and use. | | | | |
| Hazardous Polymerization | May Occur | | Condition to Avoid | Abnormally high temperature. |
| | Will Not Occur | ✓ | | |

SECTION VI - HEALTH HAZARD DATA

| | | | |
|---|--------------|-------------------|------------------|
| Route(s) of Entry : | Inhalation ? | Skin ? | Ingestion ? |
| | ✓ | ✓ | ✓ |
| Health Hazard (Acute and Chronic) | | | |
| Health hazard is minimal being neither irritating, corrosive, volatile, nor toxic. Mutagenicity is negative. | | | |
| Carcinogenicity : | | | |
| | NTP ? | IARC Monographs ? | OSHA Regulated ? |
| Not use carcinogens which are listed in NTP, IARC and OSHA. | | | |
| Signs and Symptoms of Exposure | | | |
| Contact with eyes may result in mechanical irritation. Inhalation of dust may irritate mucous membranes. Ingestion may result in gastric disturbances. | | | |
| Medical Conditions | | | |
| Generally Aggravated by Exposure | | | |
| EYES-----Immediately wash eyes with running water for 15 minutes. If irritation develops, get medical attention. | | | |
| SKIN-----Wash affected areas with soap and water. If irritation develops, get medical attention. Remove and launder contaminated clothing before reuse. | | | |
| INGESTION---If swallowed dilute with water and immediately induce vomiting. Get medical attention if the victim is unconscious or having convulsion. | | | |
| INHALATION---Remove to fresh air area. Aid in breathing if necessary and get medical attention. | | | |

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

| | |
|---|--|
| Steps to Be Taken in Case Material is Released or Spilled | Vacuum or sweep up dry powder. |
| Waste Disposal Method | Dispose in accordance with local, state and federal regulations. |
| Precautions to Be Taken in Handling and Storing | Avoid dust inhalation and skin contact. |
| Other Precautions | Keep containers closed. Store in a cool, dry place. |

SECTION VIII - CONTROL MEASURES

| | | | | |
|---------------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Respiratory Protection (Specify type) | | | | |
| None required under normal use. | | | | |
| Ventilation | Local Exhaust | None required under normal use. | Special | None required under normal use. |
| | Mechanical (General) | None required under normal use. | Other | None required under normal use. |
| Protective Gloves | None required under normal use. | Eye Protection | None required under normal use. | |
| Other Protective Equipment | None required under normal use. | | | |
| Work/Hygiene Practices | Minimize breathing dust. | | | |



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