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Material Safety Data Sheet

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MSDS No.: 021-000617

Date : 29 August, 2005

SECTION 1 PRODUCT IDENTIFICATION

Product Name: Toner for DP-8540-PU & DP-7240-PU

Product No.: DQ-TUQ60

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS	CAS #	PROPORTION (% by wt.)	OSHA PEL	ACGIH TLV	OTHER LIMITS
Polyester resin		85 – 95	None established	None established	None
Carbon black	1333-86-4	4 - 8	3.5 mg/m3	3.5 mg/m3	None
Wax		< 5	None established	None established	None
Organic pigment		< 1	None established	None established	None

SECTION 3 HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW: If used as intended, the product does not present acute or

chronic health hazard.

PHYSICAL HAZARDS: This product is not classified as flammable or combustible.

It will bum in case of fire. Avoid contact with strong

oxidizers such as chromate, bromate and nitrates.

Routes of Exposure: Inhalation, dermal contact, incidental ingestion.

INHALATION: Excessive inhalation may cause irritation of the nose, throat

and respiratory tract.

EYE CONTACT: Non-irritant.

DERMAL CONTACT: Non-irritant, non-sensitizer.

INGESTION: Not currently known.

CHRONIC EFFECTS: See Section 11 Supplemental Health Information.

CARCINOGENICITY: See Section 11 Supplemental Health Information.

REPRODUCTIVE/DEVELOPMENTAL: Not identified.

TARGET ORGANS: Prolonged breathing of high concentrations may cause adverse

effects on the respiratory system.

SIGNS AND SYMPTOMS OF EXPOSURE :

Prolonged exposure to dusts of this product may irritate the respiratory system.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE TO THIS PRODUCTS:

Respiratory disorders, such as asthma, may be aggravated by prolonged exposure to high concentrations of this product.

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SECTION 4 FIRST AID MEASURES

EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes.

If irritation persists, call a physician.

SKIN CONTACT: Wash with soap and water. Wash clothing before reuse.

If irritation occurs or is persistent, seek medical attention.

INGESTION: Dilute stomach contents with several glasses of water.

INHALATION: Remove from exposure area to fresh air immediately.

Contact a physician if there is any difficulty in breathing or

other signs of distress.

SECTION 5 FIRE FIGHTING MEASURES

GENERAL HAZARD: Product will burn in case of fire.

FLASH POINT: Not applicable. FLAMMABLE LIMITS: Not applicable.

AUTOIGNITION TEMPERATURE: Not applicable. FLAMMABILITY CLASSIFICATION: Not applicable.

EXTINGUISHING MEDIA: Foam, halon, carbon dioxide, dry chemical & water fog.

UNUSUAL FIRE & EXPLOSION HAZARD: Combustible powder. Dust of this product at

sufficient concentrations can form

explosive mixtures with air.

FIRE FIGHTING PROCEDURES: None

HAZARDOUS COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide and smoke.

SECTION 6 ACCIDENTIAL RELEASE MEASURES

SPILLS OR LEAKS: Vacuum-clean spilled toner and carefully transfer into

sealable waste container. If no vacuum-cleaner is available, sweep slowly to minimize generation of dust during clean-up.

Residue can be removed with soap and cold water.

SECTION 7 HANDLING AND STORAGE

HANDLING: Avoid dust, keep away from ignition sources.

PREVENTION OF FIRE AND EXPLOSION: This material is capable of creating a dust

explosion. Keep away from heat, sparks &

flame.

STORAGE: Keep container in cool and dry area.

HYGIENIC PRACTICES: Avoid inhalation and ingestion. Avoid getting in eyes, on

skin or clothing. Wash hands thoroughly after handling,

and before eating, drinking, or smoking.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS : ACGIH TLV= 10mg/m^3 (Total dust), 3mg/m^3 (Respirable fraction)

OSHA PEL= 15mg/m³(Total dust), 5mg/m³(Respirable fraction)

ENGINEERING CONTROLS: Maintain adequate ventilation.

EYE PROTECTION: Not required under intended use.

SKIN PROTECTION: Not required under intended use.

RESPIRATORY PROTECTION: Not required under intended use.

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Fine solid powder

COLOR: Black
SCENT: Odorless

MELTING POINT : 110 - 150 degree (Softening point)

SPECIFIC GRAVITY(H20 = 1): 1.1 - 1.5

VAPOR PRESSURE (mg Hg.): Not applicable
VAPOR DENSITY (AIR = 1): Not applicable
EVAPORATION RATE: Not applicable
SOLUBILITY IN WATER: Negligible

pH VALUE: Not a water-based product, therefore not applicable.

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

INCOMPATIBILITY: Not identified.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and carbon dioxide.

HAZARDOUS POLYMERIZATION : Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

ACUTE ORAL TOXICITY: LD50 is greater than 2,500mg/kg.

(This was the highest attainable mass.)

ACUTE INHALATION: LC50(4H) is in excess of 5.18mg/l.

(This was the highest attainable concentration.)

EYE IRRITATION: Non-irritant.

SKIN IRRITATION: Non-irritant.

SKIN SENSITIZATION: Non-sensitizer.

MUTAGENICITY: Negative in the Ames test.

CARCINOGENICITY:

In 1996, the IARC classified carbon black as a GROUP 2B carcinogen (possible human carcinogen).

CHRONIC EFFECTS:

In study in rats by chronic inhalation exposure to a typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the rats in the high concentration (16mg/m^3) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/m^3) exposure group. These findings are attributed to "lung overloading", a general response excessive amounts of any dust retained in the lungs for a prolonged period.

SECTION 12 ECOLOGICAL INFORMATION

AQUATIC ENVIRONMENT : LC50 is greater than limit of saturation. (fish)

: EC50 is greater than limit of saturation. (daphnia)

: Algal Growth Inhibition limit of saturation.

SECTION 13 DISPOSAL CONSIDERATION

Dispose of in accordance with local, state and federal regulation.

Empty plastic container may be recycled.

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SECTION 14 TRANSPORT INFORMATION

SPECIAL PRECAUTIONS: None

INTERNATIONAL TRANSPORT INFORMATION :

UN CLASSIFICATION NUMBER: Not applicable
DOT IDENTIFICATION NUMBER: Not applicable
DOMESTIC TRANSPORTATION: Not applicable
OTHER INFORMATION: Not applicable

SECTION 15 REGULATORY INFORMATION

IARC: See section 11.

US/CANADA INFORMATION :

OSHA HAZARD COMMUNICATION STANDARD, 29CFR 1910. 1200 : Not regulated.

TOXIC SUBSTANCE CONTROL ACT(TSCA) :

All chemical substances in this product comply with all applicable rules or orders under TSCA.

RCRA (40 CFR 261): Product or components not listed.

CERCLA/SARA information: Not regulated.

NTP ANNUAL REPORT ON CARCINOGENS: Not listed as an NTP carcinogen.

CALIFORNIA PROPOSITION 65:

Neither toner, nor any of the components, are listed as chemicals known to the State of California to cause cancer or reproductive system effects.

CONTROLLED PRODUCTS REGULATIONS (CANADA) :

This product has been classified in accordance with the hazard criteria of the CPR.

WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (CANADA) :

No toxicology information available.

OTHER STATE REGULATIONS :

Carbon black is listed in the New Jersey Right to Know List, Pennsylvania Hazardous Substance List, and Massachusetts Substance List.

U.S./CANADA LABEL STATEMENTS :

LOW HAZARD FOR RECOMMENDED HANDLING. Minimize dust generation and accumulation. Use with adequate ventilation.

SECTION 16 OTHER INFORMATION

REFERENCES:

IARC(1996) IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, Vol. 65, Printing Process and Printing Inks, Carbon Black and Some Nitro Componds. Lyon, PP.149-261.

H.Muhle, B.Bellmann, O.Creutzenberg, C.Dasenbrock, H.Ernst, R.Kilpper, J.C.Mackenzie, P.Morrow, U.Mohr, S.Takenaka and R.Mermelstein (1991) Pulmonary Response to Toner upon Chronic Inhalation Exposure in Rats. Fundamental and Applied Toxicology 17, pp.280-299.

Information on this data sheet represents our current data and best opinion as to the proper use in handling of this product under normal conditions.