



Material Safety Data Sheet (MSDS)

Ricoh Aficio 1022/1027 Toner

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PRODUCT IDENTIFICATION

Product Name: NATT Toner for use in Ricoh Aficio 1022/1027/2022/2027

COMPONENTS

INGREDIENT	CAS No.	Proportion % weight	OSHA PEL	ACGIH TLV	Other Limits
Styrene-acrylate copolymer	25767-47-9 29497-14-1	>75.0 (combined line line 2 items)	NA NA	NA NA	None None
Carbon black	1333-86-4	<13.0	3.5mg/m ³	3.5mg/m ³	None
Polypropylene wax	9010-79-1	<4.0	NA	NA	None
Paraffine wax*	8002-74-2	<4.0	NA	NA	None
Organic pigment	31714-55-3	<2.0	NA	NA	None
Amorphous silica	68909-20-6	<2.0	20mppcf	10.0mg/m ³	None

PHYSICAL DATA

Approx. Boiling Point N/A	Vapor Density (air=1) N/A	Vapor Pressure N/A	Evaporation Rate (n-BuAC=1) N/A	% Volatile N/A
Specific Gravity 1.10	Flash Point Range N/A	Melting Point NA	Solubility in Water Negligible	Appearance/Odor Odorless fine black powder

EMERGENCY FIRST AID

Eye Contact: Flush with copious amounts of water for 15 minutes.

Skin Contact: Wash with mild soap and water.

Inhalation: Remove to fresh air. If effects occur, consult medical personnel.

Ingestion: No effects anticipated by the route of exposure incidental to proper handling.

HEALTH HAZARDS/ROUTES OF ENTRY

Eye Contact: Solids or dust may cause irritation or corneal injury.

Skin Contact: Essentially non-irritating to skin.

Inhalation: Minimal irritation to respiratory track may occur.

Ingestion: Health hazard is minimal being neither irritating, corrosive, volatile nor toxic.

SPECIAL PROTECTION INFORMATION

Ventilation/Respiratory Protection: For most conditions, no protection should be needed, however, in dusty atmospheres, used approved dust respirator.

Protective Gloves: N/A

Eye Protection: N/A

REACTIVITY DATA

Stability Stable	Incompatibility (Materials to Avoid) Oxidizing materials	Hazardous Decomposition Products CO or NOx (high heat or fire)	Hazardous Polymerization Will not occur.
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SPILL OR LEAK PROCEDURE

If spilled, sweep or pick up with vacuum cleaner designed specifically for toner.

PRECAUTIONS IN CASE OF SPILL

If spilled, sweep or pick up with vacuum cleaner designed specifically for toner.

WASTE DISPOSAL METHOD

Dispose of product in accordance with local, county, state and federal regulations. Do not try to incinerate large quantities.

HANDLING AND STORAGE PRECAUTIONS

Keep containers closed in a cool, dry place away from source of ignition, heat or open flame. Dust suspended in the air may be explosive. Avoid inhalation of dust

FIRE AND EXPLOSION INFORMATION - HAZARD RANKING

0 = Least 1 = Slight 2 = Moderate 3 = High 4 = Extreme

HEALTH HAZARD: 1

FLAMMABILITY: 1

REACTIVITY: 0

OTHER: N/A

Extinguishing Media: Water fog, dry chemicals, CO2 or foam.

Hazardous Decomposition: N/A

Fire Fighting Procedures: None in normal storage and use conditions.

CARCINOGENICITY

In 1996, the IARC reevaluated carbon black as a group 2B carcinogen (possible human carcinogen). This evaluation is given to carbon black for which there is inadequate human evidence but sufficient animal evidence. The latter is based upon the development of lung tumors in rats receiving chronic inhalation exposures to free carbon black at a level that induces particle overload in the lungs. Studies performed in animal models other than rats have not demonstrated an association between carbon black and lung tumors. Moreover, a two-year cancer bioassay using a typical toner preparation containing carbon black demonstrated no association between toner exposure and tumor development in rats.

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