

MATERIAL SAFETY DATA SHEET (1/4)

SDS No. 503013

PRODUCT NAME: PANASONIC KX-FA76

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**PRODUCT NAME:** PANASONIC KX-FA76**MANUFACTURE'S NAME:**

Clover Technologies Group
 4200 Columbus Street, Ottawa, IL 61350
 Tel: (815) 431-8100
 Fax: (815) 431-8120

2. COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients	CAS No.	Proportion		ACGIH TLV	Other Limits
		(% by wt)	OSHA PEL		
Polyester	Trade Secret	> 87.0	Not listed	Not listed	None
Carbon Black	Trade Secret	> 8.0	3.5mg/m ³	3.5mg/m ³	None
Polypropylene Wax	Trade Secret	> 3.0	Not listed	Not listed	None
Amorphous Silica	Trade Secret	< 2.0	10.0mg/m ³	10.0mg/m ³	None

* See [Section 12 and 15].

3. HAZARD IDENTIFICATION**Emergency Overview**

Odorless black fine powder.

Not a highly flammable, but when suspended in air, is combustible as with most organic powders.

CARCINOGENIC EFFECTS: Carbon black is reclassified as a group 2B by IARC, but inhalation test using a typical toner showed no association between toner exposure and animal tumors.

POTENTIAL HEALTH EFFECTS**EYES:** Solid or dusts may cause irritation or corneal injury.**SKIN CONTACT:** Essentially nonirritating to skin.**SKIN ABSORPTION:** Skin absorption is unlikely due to physical properties.**INGESTION:** Oral toxicity is believed to be low.**INHALATION:** Minimal irritation to respiratory track may occur.**FIRE AND EXPLOSION****SENSITIVITY TO MECHANICAL IMPACT:** None**SENSITIVITY TO STATIC CHARGE:** None**4. FIRST AID MEASURES**

Eyes	Flush eyes immediately with plenty of water for at least 15 minutes. Get medical attention.
Skin	Flush with plenty of water. Use soap.
Ingestion	No adverse effects anticipated by this route of exposure incidental to proper handling.
Inhalation	Remove to fresh air. If effects occur, consult medical personnel.

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5. FIRE-FIGHTING MEASURES

FLAMABLE PROPERTIES:

FLASH POINT: No data available

FLAMMABLE LIMITS:

LEL: No data available

LEL: No data available

EXTINGUISHING MEDIA: Foam, CO₂, dry chemical.

FIRE-FIGHTING EQUIPMENT: Wear full bunker gear including a positive pressure self-contained breathing apparatus in case of burning in large quantities.

6. ACCIDENTAL RELEASE MEASURES

Minimize the release of particulates. Wear personal protective equipment.

Do not use vacuum cleaner.

Alter by lightly spraying with water to prevent development of dust, spills should be swept up or wiped up. Then residuals can be removed with soap and water. Preferred to use the material in a place, covering up the floor and surrounding matters with suitable sheets such as paper in case of being not fit to scrub the floor with water. These used sheets should be wrapped up in spills and transfer into a suitable container for disposal. Garments may be washed or dry cleaned, after removal of loose toner.

7. HANDLING AND STORAGE

Avoid creating dust. Clean up all spills promptly.

Inhalation and contact with skin or eyes should be avoided.

Provide general ventilation. Good general ventilation should be sufficient for most conditions.

Store in a cool, well ventilated place away from flame and spark-producing equipment.

May toners be preferred to use or to handle at the suitable place without concerning about smudges to which are given rise by releasing them.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Control Parameters

OSHA PEL: TWA 5.0mg/m³ (Inert of Nuisance Dust : Respirable fraction)

15.0mg/m³ (Inert of Nuisance Dust : Total dust)

ACGIH TLV: TWA (2001)

3.0mg/m³ (Particulates Not Otherwise Classified: Respirable Particle Mass)

10.0mg/m³ (Particulates Not Otherwise Classified: Inhalable Particle Mass)

Respiratory Protection: In dusty atmospheres, use an approved dust respirator.

Skin Protection: No precautions should be needed under normal use.

Eye Protection: No precautions should be needed under normal use.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Odorless Black fine powder
Odor: None
Boiling Point: N.A. (not applicable)
Vap Press: N.A.
Vap Density: N.A.
Sol In Water: Insoluble
Sp. Gravity: 1.50 – 1.60
Melting Point: No data
pH: N.A.
% Volatile: N.A.

10. STABILITY AND REACTIVITY

STABILITY: This is a stable product.

INCOMPATIBILITY: (SPECIAL MATERIALS TO AVOID) Oxidizing materials.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Oxides, Hydrocarbons (by high heat and fire.)

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

MUTAGENICITY: Negative (Estimate from the data of constituent components.)

CARCINOGENIC EFFECTS:

In 1996, the IARC (International Agency for Research on Cancer) 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 exposure to free carbon black at level that induce particle overload of the lung. 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 and tumor development in rats.

Chronic Effects:

In a study of rats with chronic inhalation exposure to typical toner, a mild to moderate degree of lung fibrosis was observed in 92% of the high concentration (16mg/cubic m) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/cubic m) exposure group. No pulmonary change was reported in the lowest (1mg/cubic m) exposure group, the most relevant level to potential human exposure.

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12. ECOLOGICAL INFORMATION

Biodegradability: not known

Bioaccumulation: not known

Ecotoxicity: Shown below;

these statements are based on test results of similar products.

ACUTE TOXICITY TO DAPHNIA MAGNA

No observed effect concentration : ≥ 100 mg/l

EC50: >100mg/l

ACUTE TOXICITY TO FISH

No observed effect concentration : ≥ 100 mg/l

LC50: >100mg/l

ALGAL GROWTH INHIBITION ASSAY:

No observed effect concentration : ≥ 100 mg/l

EC50: >100mg/l

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Waste must be disposed of in accordance with country and local environmental control regulations.

14. TRANSPORT INFORMATION

Transport Information: This is not a hazardous product.

UN No.: None allocated.

15. REGULATORY INFORMATION

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

EU: Two chemical substances in this product contained less than 0.9wt% are treated as a new chemical.

Moreover, one of two new chemicals is treated as hazardous material required to meet the labeling rule of 11999/45/ec (article 10, danger categories: dangerous for environment).

16. OTHER INFORMATION

NFPA Rating: Health = 1 Flammability = 1 Reactivity = 0

.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 Compounds, Lyon, pp. 149-261

H. Mule, B. Bellmann, O. Crutzenberg, C. Dasenbrock, H. Ernest, 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, pp280-299.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. It does not represent a guarantee for the properties of the product described in terms of the legal warranty.
