

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product Name: NT-CS409FBK/ NT-CS409FC/ NT-CS409FM/ NT-CS409FY for Samsung
CLP-310N/CLP315 Samsung CLX-3175FN/CLX-3170

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Section 2-Hazards Identification

Emergency Overview

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

Eyes

Solid or dusts may cause irritation or corneal injury.

Skin

Essentially nonirritating to skin.

Inhalation

Minimal irritation to respiration track may occur.

Ingestion

Oral toxicity is believed to be low.

Section 3 – Compositor/Information on Ingredient

PrincipalComponents	Cas No.	WT. %	OSHA (PEL)	ACGIH (TLV)
Polyester resin	Registered	84-92	N/K	N/K
Carbon Black	1333-86-4	4-8	N/A	N/A
Organic Pigments (Cyan, Yellow, Magenta)	Registered	4-8	N/A	N/A
Salicylic metal compound	42405-40-3	< 2	N/A	N/A
Natural wax	8016-60-2	< 2	N/A	N/A

N/A = Not Applicable N/K = Not Known

Section 4-First Aid Measures

Eyes

Immediately rinse thoroughly with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical advice if need.

Skin

Immediately flush skin with plenty of water at least 15 minutes. Remove contaminated clothing/shoes. Follow by washing with soap and water. If irritation persists, get medical attention. Do not reuse clothing until cleaned.

Inhalation

Remove victim to fresh air. If not breathing, give artificial breathing. If breathing is difficult, give oxygen. Consult a physician.

Ingestion

Do not induce vomiting. Consult a physician.

Section 5-Fire Fighting Measures

Flammability: Non-flammable.

Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Such as CO₂, dry chemical.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous Combustible Products

Emits irritating and toxic fumes under fire condition.

Section 6-Accidental Release Measures

Steps to be taken in case material is spilled or released

Ventilate and evacuate area. Wear appropriate personal protective equipment as specified in Section 8. Sweep up using a method that does not generate dust. Collect as much of the spilled material as possible, placed the spilled material into a suitable disposal container. Keep spilled material out of sewers, ditches and bodies of water.

Waste Disposal Method

Use Waste Disposal Methods in accordance with local rules and regulations

Section 7-Handling and Storage

Handling Procedures

Keep containers closed when not in use. Minimize dust generation and accumulation. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Wash skin with soap and water after contact. Empty containers may contain product residue. Do not reuse and damage empty container.

Storage Requirements

Store in a cool, dry and well-ventilated place. Avoid storage in direct sunlight. Consumption of food and beverage should be avoided in work areas. Wash hands with

soap and water before eating, drinking. Keep away incompatible substances, such as oxidizing materials.

Section 8-Exposure Controls, Personal Protection

No need for normal use. At industrial condition, handle as follows:

Engineering Controls

Keep workroom concentration below current applicable OSHA safety and health requirements. If necessary, configure the explosion-proof, anti-static devices.

Respiratory Protection

Appropriate vapor canister, self-contained breathing apparatus or supplied-air hose mask below current applicable OSHA safety and health requirements.

Personal Protection

Safety glasses, protective gloves, and lab coat, eye washer and safety shower if needed.

Exposure Limits

Aluminum Alloy

OSHA PEL 15mg/m³(Total),5mg/m³(Respire)

Carbon Black

OSHA PEL 3.5mg/m³

ACGIH TLV 3.5mg/m³

Section 9 – Physical and Chemical Properties

Flammability: Non-flammable.

Solubility in water: Be difficult to soluble in water.

Appearance characters: Solid.

Chemical Uses: Print output

Section 10- Stability and reactivity

Storage Stability

Stable under recommended storage conditions.

Condition to Avoid

Dust generation, excess heat, moisture.

Incompatibilities

Oxidizing materials

Hazardous Combustible Products

Emits irritating and toxic fumes under fire condition

Polymerization

Will not occur.

Section 11-Toxicological Information

Mutagenicity: Negative in the ames test.

(Estimated from the data of other products and constituent components.)

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 of lung tumors in rat receiving chronic inhalation exposures 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 containing carbon black demonstrated no association between toner exposure and tumor development in rats.

Chronic effects:

In a study in rats (H.Muhle) by chronic inhalation exposure to a typical toner. A mild to moderate degree of lung fibrosis in 92% of the rats in the concentration(16mg/m³) exposure group, and a minimal to mild degree of fibrosis was noted in 22% of the animals in the middle (4mg/ m³) exposure group. But no pulmonary changes was reported in the lowest (1mg/ m³) exposure group, the most relevant level to potential human exposures.

Section 12-Ecological Information

Report spills as required to appropriate authorities. U.S. COAST Guard regulations require immediate reporting of spills that could reach any waterway including intermittent dry creeks.

Section 13-Disposal Considerations

All disposals must comply with federal, state, and local regulations. The material, if spilled or discarded, may be a regulated waste. Refer to state and local regulations. If regulated solvents are used to clean up spilled material, the resulting waste mixture may be regulated. Department of Transportation (DOT) regulations may apply for transporting this material when spilled.

Section 14-Transport Information

The toner Cartridge is exempt from dangerous goods. It is considered non-dangerous goods by the international Civil Aviation Organization (ICAO), the International Air Transport Association (IATA), or the International Maritime Dangerous Goods regulation (IMDG), or Technical Instructions for the Safe Transport of Dangerous Goods (TI).

Transport Fashion: By air, by sea, by railway, by road.

Section 15-Regulatory Information

Law Information

《Dangerous Goods Regulation》

《Recommendations on the Transport of Dangerous Goods Model Regulations》

《International Maritime Dangerous Goods》

《Technical Instructions for Safe Transport of Dangerous Goods》

《Classification and code of dangerous goods》
《Occupational Safety and Health Act》 (OSHA)
《Toxic Substances Control Act》 (OSHA)
《Consumer Product Safety Act》 (CPSA)
《Federal Environmental Pollution Control Act》 (FEPCA)
《The Oil Pollution Act》 (OPA)
《Superfund Amendments and Reauthorization Act Title III (302/311/312/313)》 (SARA)
《Resource Conservation and Recovery Act》 (RCRA)
《Safety Drinking Water Act》 (CWA)
《California Proposition 65》
《Code of Federal Regulations》 (CFR)

In accordance with all Federal, State and Local laws.

Section 16-Additional Information

The Report prepared on the basis of the report of the supplier's MSDS, our company is responsible for the transmission of information, not be responsible for the accuracy and authenticity of the report.