

# Material Safety Data Sheet (MSDS)

**Product Name:** Chocolate Brown FCF Color Powder

**MSDS Generate Date:** 20-05-2017

**Revision Date:** 30-12-2024

## Supplier:

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## 1. Identification of the Substance and Company

**Product Name:** Chocolate Brown FCF Color Powder

**Chemical Name:** Chocolate Brown FCF

**Colour Index (C.I.) Number:** C.I. Food Brown 3

**CAS Number:** Mixture (Commercial Food Colour)

**EC Number:** Not Assigned

**Chemical Nature:** Synthetic Food Grade Colouring Agent (Azo Food Colour)

### Recommended Use:

Used as a food-grade colouring agent in confectionery, bakery products, beverages, desserts, chocolate products, dairy products, processed foods, pharmaceutical formulations, nutraceuticals, cosmetics, and other approved food applications.

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## 2. Hazard Identification

**GHS Classification:** Chocolate Brown FCF Color Powder is generally not classified as hazardous under the Globally Harmonized System (GHS) when handled according to recommended industrial practices.

**Potential Health Effects:**

**Inhalation:** Dust may cause temporary irritation to the nose, throat, and respiratory tract.

**Skin Contact:** Repeated or prolonged contact may cause mild irritation in sensitive individuals.

**Eye Contact:** Dust may cause temporary irritation, redness, watering, and discomfort.

**Ingestion:** Low toxicity is expected under normal conditions of use. Excessive ingestion may cause mild gastrointestinal discomfort. Sensitive individuals may experience allergic-type reactions.

**Environmental Hazards:** No significant environmental hazards are expected under normal handling conditions. Avoid unnecessary release into waterways.

**Precautionary Statements:**

- Avoid breathing dust.
- Avoid contact with eyes.
- Wash hands after handling.
- Maintain good industrial hygiene.
- Store in tightly closed containers.
- Avoid unnecessary environmental release.

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### 3. Composition / Information on Ingredients

Chocolate Brown FCF Color Powder is a food-grade colouring preparation consisting primarily of Chocolate Brown FCF together with approved food-grade processing aids or diluents where applicable. Commercial formulations may contain permitted quantities of sodium chloride, sodium sulfate, or other approved carriers depending on customer requirements and manufacturing specifications. The product is manufactured in accordance with applicable food-grade quality standards. No hazardous additives are intentionally incorporated during normal production.

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### 4. First Aid Measures

**Inhalation:** Move the affected person to fresh air. Seek medical attention if irritation persists.

**Skin Contact:** Wash affected skin thoroughly with soap and water. Remove contaminated clothing if necessary.

**Eye Contact:** Immediately flush eyes with clean water for at least 15 minutes while holding eyelids open. Remove contact lenses if present. Obtain medical attention if irritation continues.

**Ingestion:** Rinse mouth thoroughly with water. Drink water if conscious. Seek medical attention if large quantities are ingested or symptoms develop.

**Most Important Symptoms:**

- Temporary eye irritation
- Mild respiratory irritation
- Mild skin irritation
- Gastrointestinal discomfort
- Possible allergic reactions in susceptible individuals

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## 5. Fire Fighting Measures

**Suitable Extinguishing Media:** Water spray, Dry chemical powder, Carbon dioxide (CO<sub>2</sub>), Foam.

**Unsuitable Extinguishing Media:** No specific restrictions.

**Fire Hazards:** Organic powder may generate combustible dust clouds if dispersed in air.

**Hazardous Combustion Products:** Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides, and irritating smoke.

**Protective Equipment:** Wear self-contained breathing apparatus (SCBA) and full protective clothing.

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## 6. Accidental Release Measures

**Personal Precautions:**

- Avoid generating airborne dust.
- Wear suitable gloves, eye protection, and dust mask where necessary.
- Ensure adequate ventilation.

**Environmental Precautions:** Prevent large quantities from entering drains, rivers, lakes, or groundwater.

**Cleanup Methods:** Carefully sweep or vacuum spilled material while minimizing dust generation. Place recovered material into suitable containers for disposal or recovery. Wash the contaminated area after cleanup.

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## 7. Handling and Storage

**Handling**

- Avoid excessive dust generation.
- Avoid inhalation of dust.
- Avoid contact with eyes.
- Wash hands thoroughly after handling.
- Keep containers tightly closed.

**Storage**

Store in tightly sealed containers in a cool, dry, clean, and well-ventilated location.

Protect from moisture, direct sunlight, excessive heat, contamination, and strong oxidizing agents.

Recommended storage temperature is 15°C–30°C.

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## 8. Exposure Controls / Personal Protection

- **Engineering Controls:** Provide adequate ventilation. Local exhaust ventilation is recommended where dust is generated.

### Personal Protective Equipment

- **Respiratory Protection:** Dust mask or particulate respirator when airborne dust is present.
- **Eye Protection:** Safety glasses with side shields.
- **Hand Protection:** Protective gloves.
- **Skin Protection:** Suitable protective clothing.

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## 9. Physical and Chemical Properties

**Appearance:** Brown to dark brown fine powder

**Odor:** Odorless or faint characteristic odor

**Physical State:** Solid powder

**pH:** Typically 6–9 (aqueous solution)

**Bulk Density:** Varies according to product grade

**Solubility:** Freely soluble in water; practically insoluble in most organic solvents

**Moisture Content:** Within product specification

**Flash Point:** Not applicable

**Melting Point:** Decomposes upon heating

**Boiling Point:** Not applicable

**Auto-Ignition Temperature:** Not determined

**Explosive Properties:** Fine dust may form combustible mixtures with air

**Oxidizing Properties:** Not oxidizing

**Vapor Pressure:** Not applicable

**Vapor Density:** Not applicable

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## 10. Stability and Reactivity

**Reactivity:** Stable under recommended storage and handling conditions.

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Excessive heat, Moisture, Direct sunlight, Dust accumulation, Strong oxidizing agents.

**Incompatible Materials:** Strong oxidizing agents, strong acids, and strong reducing agents.

**Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, nitrogen oxides, sulfur oxides, and irritating organic fumes.

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## 11. Toxicological Information

**Acute Toxicity:** Low acute toxicity under normal conditions of use.

**Skin Irritation:** May cause mild irritation after prolonged exposure.

**Eye Irritation:** Dust may cause temporary irritation.

**Respiratory Effects:** Dust may irritate the respiratory tract.

**Sensitization:** Sensitive individuals may experience allergic-type reactions.

**Carcinogenicity:** No known carcinogenic effects under intended conditions of use.

**Mutagenicity:** No known mutagenic effects.

**Reproductive Toxicity:** No known reproductive toxicity.

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## 12. Ecological Information

**Ecotoxicity:** No significant environmental toxicity is expected.

**Persistence and Degradability:** Expected to degrade gradually under environmental conditions.

**Bioaccumulative Potential:** Not expected to bioaccumulate significantly.

**Mobility:** Highly soluble in water.

**Environmental Precautions:** Avoid unnecessary release into drains, rivers, lakes, and soil.

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### 13. Disposal Considerations

Dispose of unused product and contaminated packaging according to applicable local, regional, and national regulations.

Do not discharge concentrated product directly into natural waterways.

Recycle or dispose of empty containers through approved waste management facilities.

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### 14. Transport Information

Chocolate Brown FCF Color Powder is generally not classified as dangerous goods under ADR/RID, IMDG, or IATA regulations when transported in standard commercial packaging.

The product should be transported in clean, dry, tightly sealed containers to prevent contamination, moisture absorption, dust generation, and deterioration of product quality during transportation.

**UN Number:** Not regulated.

**UN Proper Shipping Name:** Not regulated.

**Transport Hazard Class:** Not regulated.

**Packing Group:** Not applicable.

**Environmental Hazard:** Not classified as environmentally hazardous for transport.

**Marine Pollutant:** No.

**Road Transport (ADR/RID):** Transport in sealed HDPE drums, fiber drums, laminated paper bags with polyethylene liners, or approved food-grade packaging. Protect packages from moisture, direct sunlight, excessive heat, and physical damage. Secure cargo properly during transportation to prevent package movement and damage.

**Sea Transport (IMDG):** Not regulated as dangerous goods under the IMDG Code. Keep containers tightly sealed and protected from seawater, humidity, contamination, excessive temperatures, and physical damage throughout shipment.

**Air Transport (IATA):** Generally not classified as dangerous goods for air transport. Use moisture-resistant, leak-proof packaging suitable for air freight. Protect packages against pressure variations and rough handling.

**Special Transport Precautions:**

- Keep containers tightly sealed throughout transportation.
- Protect from moisture and humidity.
- Avoid direct sunlight and excessive heat.
- Prevent contamination with incompatible materials.
- Avoid excessive dust generation during loading and unloading.
- Protect packages from physical damage.
- Secure cargo properly during transportation.
- Keep away from strong oxidizing agents.
- Inspect all packaging before dispatch.
- Do not transport leaking or damaged containers.
- Follow all applicable local, national, and international transportation regulations.

**Transport in Bulk According to MARPOL Annex II and IBC Code:** Not applicable for packaged food colour powder.

**Emergency Transport Information:** In case of accidental spillage during transportation, avoid creating airborne dust. Recover spilled material using vacuum equipment or careful sweeping into clean containers. Prevent product from entering drains, rivers, lakes, or soil. Personnel performing spill cleanup should wear suitable gloves, eye protection, and a dust mask where dust is generated. Dispose of collected material according to applicable regulations.

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## 15. Regulatory Information

- Chocolate Brown FCF Color Powder should be handled in accordance with applicable food safety, pharmaceutical, cosmetic, occupational safety, environmental protection, and transportation regulations.
- The product should comply with applicable food additive regulations and quality standards for its intended use where permitted by local regulatory authorities.

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## 16. Other Information

The information contained in this Material Safety Data Sheet is based on current knowledge regarding Chocolate Brown FCF Color Powder and is intended to provide guidance for safe handling, storage, transportation, and disposal.

The composition and physical characteristics may vary depending on manufacturing process and customer specifications. Users should consult the applicable Product Specification and Certificate of Analysis before use.

This MSDS does not constitute a guarantee of product specifications or suitability for any particular application. Users are responsible for ensuring compliance with applicable local, national, and international regulations.

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- MSDS are based on the manufacturer's provided information.