

Material Safety Data Sheet (MSDS)

Product Name: Tartrazine Supra Color Powder

MSDS Generate Date: 20-05-2017

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Supplier:

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1. Identification of the Substance and Company

Product Name: Tartrazine Supra Color Powder

Chemical Name: Tartrazine

Colour Index (C.I.) Name: Food Yellow 4

Colour Index Number: C.I. 19140

CAS Number: 1934-21-0

EC Number: 217-699-5

Chemical Formula: $C_{16}H_9N_4Na_3O_9S_2$

Molecular Weight: 534.36 g/mol

Chemical Nature: Synthetic Azo Food Colour

Recommended Use:

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

2. Hazard Identification

GHS Classification: Tartrazine Supra 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: Prolonged or repeated contact may cause mild irritation in sensitive individuals.

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

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

Environmental Hazards: No significant environmental hazards are anticipated under normal handling conditions. Prevent unnecessary large releases into waterways.

Precautionary Statements:

- Avoid breathing dust.
- Avoid contact with eyes.
- Maintain good industrial hygiene.
- Wash hands after handling.
- Keep container tightly closed.
- Store in a cool and dry place.

3. Composition / Information on Ingredients

Tartrazine Supra Color Powder consists primarily of Tartrazine (Food Yellow 4, C.I. 19140), a synthetic water-soluble azo dye manufactured for food, pharmaceutical, and cosmetic applications. Commercial grades may contain approved food-grade diluents, sodium chloride, sodium sulfate, or other permitted processing aids depending on customer specifications. All ingredients comply with applicable food-grade quality standards. No hazardous additives are intentionally incorporated under normal manufacturing conditions.

4. First Aid Measures

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

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

Eye Contact: Flush immediately with clean water for at least 15 minutes while holding eyelids open. Remove contact lenses if present. Seek medical attention if irritation persists.

Ingestion: Rinse mouth thoroughly with water. Drink water if conscious. Seek medical advice if excessive quantities have been consumed or symptoms occur.

Most Important Symptoms:

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

5. Fire Fighting Measures

Suitable Extinguishing Media: Water spray, Dry chemical powder, Carbon dioxide (CO₂), Foam.

Unsuitable Extinguishing Media: No specific restrictions.

Fire Hazards: The product is combustible as an organic powder. Dust suspended in air may present a combustible dust hazard.

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.

6. Accidental Release Measures

Personal Precautions: Avoid generating airborne dust.

- Wear protective gloves, safety glasses, and suitable respiratory protection where necessary.
- Ensure adequate ventilation.

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

Cleanup Methods: Carefully sweep or vacuum spilled material using equipment suitable for fine powders. Minimize dust generation. Transfer material into suitable containers for disposal or recovery. Clean the contaminated area thoroughly.

7. Handling and Storage

Handling

- Avoid excessive dust generation.
- Avoid inhalation of dust.
- Prevent contact with eyes.
- Maintain good industrial hygiene.
- Keep containers tightly closed after use.

Storage

Store in tightly sealed containers in a cool, dry, well-ventilated area.

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

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

8. Exposure Controls / Personal Protection

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

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:** Protective clothing appropriate for industrial handling.

9. Physical and Chemical Properties

Appearance: Bright yellow to orange-yellow fine powder

Odor: Odorless or faint characteristic odor

Physical State: Solid powder

pH: Typically 6–9 (aqueous solution)

Bulk Density: Varies depending on 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

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 reducing agents, and strong acids.

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

11. Toxicological Information

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

Skin Irritation: May cause mild irritation in sensitive individuals.

Eye Irritation: Dust may cause temporary irritation.

Respiratory Effects: Dust may cause irritation of the respiratory tract.

Sensitization: May cause allergic reactions in susceptible individuals sensitive to Tartrazine.

Carcinogenicity: No known carcinogenic effects under normal conditions of use.

Mutagenicity: No known mutagenic effects.

Reproductive Toxicity: No known reproductive toxicity.

12. Ecological Information

Ecotoxicity: No significant environmental toxicity is expected under normal conditions.

Persistence and Degradability: Expected to degrade slowly 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.

13. Disposal Considerations

Dispose of unused product and contaminated packaging in accordance with applicable local, regional, and national regulations.

Do not discharge concentrated product directly into drains or natural waterways.

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

14. Transport Information

Tartrazine Supra 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 other approved food-grade packaging. Protect containers from moisture, direct sunlight, excessive heat, and physical damage. Secure cargo properly during transportation to prevent shifting and package damage.

Sea Transport (IMDG): Not regulated as dangerous goods under the IMDG Code. Containers should remain tightly sealed and protected from seawater, humidity, contamination, and excessive temperatures 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 changes and physical damage during transit.

Special Transport Precautions:

- Keep containers tightly sealed during transport.
- Protect from moisture, humidity, and direct sunlight.
- Prevent contamination with incompatible chemicals.
- Avoid excessive dust generation during loading and unloading.
- Protect packages from physical damage.
- Secure cargo properly during transportation.
- Store away from strong oxidizing agents.
- Inspect all packaging before shipment.
- Do not transport damaged or leaking 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 by vacuuming or careful sweeping into suitable containers. Prevent entry into drains, rivers, lakes, or other water bodies. Personnel engaged in spill cleanup should wear suitable gloves, eye protection, and a dust mask where airborne dust is present. Dispose of recovered material in accordance with local regulations.

15. Regulatory Information

- Tartrazine Supra Color Powder should be handled in accordance with applicable food safety, pharmaceutical, cosmetic, occupational safety, environmental protection, and transportation regulations.
- Where applicable, the product should comply with relevant food additive regulations and quality standards for its intended use.

16. Other Information

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

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

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

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