

SAFETY DATA SHEET (SDS)

FD&C Yellow 5 (Tartrazine)

SECTION 1: IDENTIFICATION

Product Identifier: FD&C Yellow 5 (Tartrazine)

Other Names: Tartrazine, C.I. 19140, Acid Yellow 23

Product code: FDCYELLOW5

CAS No.: 1934-21-0

Recommended Use: Food coloring, cosmetics, pharmaceuticals, industrial dye applications

Supplier:

Chemical Store Inc.
1059 Main Avenue,
Clifton, NJ 07011
Tel: (973) 405-6248 Website: ChemicalStore.com

Emergency Contact: +1 (973) 420-4972

SECTION 2: HAZARD IDENTIFICATION

GHS Classification: Not classified as hazardous under GHS criteria

Signal Word: None

Hazard Statements: Not considered hazardous under normal handling conditions

Precautionary Statements:

- Avoid inhalation of dust.
- Use personal protective equipment (PPE) as required.
- Wash hands after handling.

Hazards Not Otherwise Classified (HNOC): May cause allergic reactions in sensitive individuals.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Concentration
FD&C Yellow 5 (Tartrazine)	1934-21-0	>87%

SECTION 4: FIRST-AID MEASURES

Inhalation: Move to fresh air. If breathing difficulties occur, seek medical attention.

Skin Contact: Wash with soap and water. If irritation develops, seek medical advice.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present. Seek medical attention if irritation persists.

Ingestion: Rinse mouth with water. If symptoms develop, seek medical advice.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, dry chemical, foam, or carbon dioxide

Specific Hazards Arising from the Chemical: May produce irritating or toxic fumes in case of fire.

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid dust formation. Use PPE if necessary.

Environmental Precautions: Do not allow large amounts to enter waterways.

Cleanup Methods: Sweep up and collect in suitable containers for disposal.

SECTION 7: HANDLING AND STORAGE

Handling: Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate

ventilation wear respiratory protection. Avoid creating and inhaling dust. Do not ingest or take internally. Readily absorbs moisture from air.

Storage: Store in a cool, dry place. Keep container tightly closed.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: Not established

Engineering Controls: Use adequate ventilation.

Personal Protective Equipment (PPE):

- **Eye Protection:** Safety goggles
- **Skin Protection:** Gloves if prolonged exposure is expected
- **Respiratory Protection:** Dust mask in case of high dust levels

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Formula: C ₁₆ H ₉ N ₄ O ₉ S ₂ Na ₃ Molecular Weight: 534.37 g/mol Appearance: Orange Powder Odor: No data available Odor Threshold: No data available pH (1% solution): 5 - 7 Melting Point: Decomposes before melting Boiling Point: No data available Flash Point: No data available Flammable Limits in Air: No data available Bulk Density: 1.3 – 1.4 g/cm ³	Vapor Pressure: N/A Evaporation Rate (BuAc=1): N/A Vapor Density (Air=1): N/A Specific Gravity: N/A Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: N/A Density: 2.12 g/cm ³
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SECTION 10: STABILITY AND REACTIVITY

Stability: Stable under normal conditions

Incompatible Materials: Strong oxidizers, acids, and bases

Hazardous Decomposition Products: May produce nitrogen oxides (NO_x) and sulfur oxides (SO_x) upon decomposition

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
FD&C Yellow #5	1934-21-0	Oral LD50 Mouse 12750 mg/kg	Not determined	Not determined

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
No data available	1934-21-0	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.

Teratogenicity: No evidence of a teratogenic effect (birth defect).

Sensitization: Evidence of a sensitization effect.

Reproductive: No evidence of negative reproductive effects.

Target Organ Effects:

Acute: No data available

Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Low toxicity to aquatic life
Persistence and Degradability: Not readily biodegradable
Bioaccumulation Potential: Low potential for bioaccumulation

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods: Dispose of in accordance with local, state, and federal regulations.

SECTION 14: TRANSPORT INFORMATION

DOT (US): Not regulated as a hazardous material
IMDG: Not regulated
IATA: Not regulated

SECTION 15: REGULATORY INFORMATION

- **TSCA (Toxic Substances Control Act):** Listed
 - **FDA:** Approved for food, drug, and cosmetic use
 - **California Proposition 65:** Not listed
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SECTION 16: OTHER INFORMATION

NFPA Ratings:

Health	Flammability	Reactivity
1 (Slight)	1 (Slight)	0 (Minimal)

Disclaimer: The information provided in this SDS is believed to be accurate and represents the best information currently available. However, no warranty is expressed or implied. The user assumes full responsibility for safe handling and proper use of the product.

End of Safety Data Sheet