

Material Safety Data Sheet (MSDS)

Product Name: Carmoisine 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: Carmoisine Supra Color Powder

Chemical Name: Carmoisine (Azorubine)

Colour Index (C.I.) Name: Food Red 3

Colour Index Number: C.I. 14720

CAS Number: 3567-69-9

EC Number: 222-657-4

Chemical Formula: $C_{20}H_{12}N_2Na_2O_7S_2$

Molecular Weight: 502.43 g/mol

Chemical Nature: Synthetic Water-Soluble Azo Food Colour

Recommended Use:

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

2. Hazard Identification

GHS Classification: Carmoisine Supra Color Powder is generally not classified as hazardous according to the Globally Harmonized System (GHS) when handled under normal industrial conditions.

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 skin irritation in sensitive individuals.

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

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

Environmental Hazards: No significant environmental hazards are anticipated during normal handling. Avoid unnecessary release into drains and natural water bodies.

Precautionary Statements:

- Avoid breathing dust.
- Avoid contact with eyes.
- Wash thoroughly after handling.
- Use appropriate personal protective equipment.
- Store container tightly closed.
- Prevent unnecessary environmental release.

3. Composition / Information on Ingredients

Carmoisine Supra Color Powder consists primarily of Carmoisine (Azorubine, C.I. 14720), a synthetic water-soluble azo food colour manufactured for food, pharmaceutical, nutraceutical, and cosmetic applications. Commercial grades may contain approved food-grade carriers or processing aids such as sodium chloride or sodium sulfate depending on customer specifications. The product is manufactured in compliance with applicable food-grade quality standards and does not intentionally contain hazardous impurities 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 required.

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 continues.

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

Most Important Symptoms:

- Temporary eye irritation
- Mild respiratory irritation
- Mild skin irritation
- Gastrointestinal discomfort
- Possible 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: Fine organic powder may form combustible dust clouds when dispersed in air.

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

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

6. Accidental Release Measures

Personal Precautions:

- Avoid airborne dust generation.
- Wear suitable gloves, eye protection, and respiratory protection where required.
- Ensure adequate ventilation.

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

Cleanup Methods: Carefully sweep or vacuum spilled material using methods that minimize dust formation. Collect material into suitable containers for disposal or recovery. Wash contaminated surfaces thoroughly after cleanup.

7. Handling and Storage

Handling

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

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.

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.

9. Physical and Chemical Properties

Appearance: Dark red to maroon fine powder

Odor: Odorless or faint characteristic odor

Physical State: Solid powder

pH: Typically 6–9 (aqueous solution)

Bulk Density: Varies depending on 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 dust-air mixtures

Oxidizing Properties: Not oxidizing

Vapor Pressure: Not applicable

Vapor Density: Not applicable

10. Stability and Reactivity

Reactivity: Stable under recommended handling and storage 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.

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.

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.

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.

14. Transport Information

Carmoisine Supra Color Powder is not classified as dangerous goods under ADR/RID, IMDG, ICAO, or IATA transport regulations when shipped 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, fibre drums, laminated paper bags with polyethylene liners, or approved food-grade containers. Protect packages from moisture, direct sunlight, excessive heat, contamination, and physical damage. Secure cargo properly to prevent movement during transportation.

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 mechanical damage throughout shipment.

Air Transport (IATA/ICAO): Not classified as dangerous goods for air transport. Use moisture-resistant and leak-proof packaging suitable for air freight. Protect packages against pressure variations and rough handling during transit.

Special Transport Precautions:

- Keep containers tightly sealed throughout transportation.
- Protect from moisture, humidity, and direct sunlight.
- Avoid excessive heat and freezing temperatures.
- Prevent contamination with incompatible substances.
- Minimize dust generation during loading and unloading.
- Protect packages from physical damage.
- Secure cargo to prevent movement during transport.
- Store away from strong oxidizing agents.
- Inspect containers before shipment.
- Do not transport damaged or leaking packages.
- 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: If accidental spillage occurs during transportation, avoid generating airborne dust. Recover spilled material by careful sweeping or industrial vacuuming into suitable containers. Prevent material from entering drains, sewers, rivers, lakes, or soil. Personnel involved in cleanup should wear appropriate gloves, eye protection, and respiratory protection where dust is present. Dispose of recovered material according to applicable environmental and waste disposal regulations.

15. Regulatory Information

- This product should be handled in accordance with applicable food safety, pharmaceutical, cosmetic, occupational safety, environmental protection, and transportation regulations.
- The product is intended for approved food, pharmaceutical, nutraceutical, and cosmetic applications and should comply with applicable food additive regulations and quality standards.

16. Other Information

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

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

This MSDS does not constitute a warranty regarding 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.