

Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product Name: ColorStar Plus

CAS # 23564-05-8

EPA Reg. #: 51274-1

Product Use: Fertilizer and Systemic Fungicide

Company Identification: Nelson Plant Food Corp.

P.O. Box 638

Bellville, Texas 77418

Emergency call: 979-865-8596

Chemtrec call: 800-424-9300

Section 2 – Hazards identification

Classification of substance:

No pictogram required

Cause eye irritation

GHS labeling elements:

The substance is classified and labeled according to the Globally Harmonized System (GHS):

Hazard pictograms:

No symbol required

Signal Word: Warning

Hazard-determined components of labeling: Thiophanate-methyl

Hazard statements: Causes eye irritation

Precautionary Statements:

Prevention: Wash thoroughly after handling.

Response:

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention

Other effects of overexposure: Prolonged inhalation can cause mucous membrane irritation, or lung disorders.

Section 3 – Composition/information of ingredient

Chemical Name	Trade names and Synonyms	Percent	CAS No.
Thiophanate-methyl	Dimethyl 4,4'-o-phenylenebis[3-thioallophanate]	0.20%	23564-05-8
Nitrogen	Nitrogen (N)	19.0%	
Available Phosphoric Acid	Available Phosphoric Acid (P ₂ O ₂)	13.0%	
Magnesium	Magnesium (M)	6.0%	
Copper	Copper (Cu)	0.15%	
Iron	Iron (Fe)	0.03%	
Manganese	Manganese (Mn)	0.125%	
Zinc	Zinc (Zn)	0.05%	
Calcium	Calcium (Ca)	0.25%	
Sulfur	Sulfur (S)	0.55%	
Bone and Blood Meal	Bone and Blood Meal	19.0%	
Other Ingredients	Non-Toxic and non-hazardous	41.645%	

Section 4 – First Aid Measures

Symptoms	Acute eye irritation. Irritation, rash or chafing of skin may also occur. Prolonged inhalation can cause mucous membrane irritation, or lung disorders.
Eyes:	May cause irritation do not rub eyes. Hold eye open and rinse slowly and gently with for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
Skin:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes.
Inhalation:	May cause irritation. Remove to fresh air. If person stops breathing or irregular, give artificial respiration and supply oxygen.
Swallowed:	Do not induce vomiting unless told to do so by the poison control center or doctor. Rinse mouth with water immediately.
Note to Physicians Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the Poison Control Center 800-222-1222.	

Section 5 – Fire Fighting Measure

Extinguishing media: Use foam, water spray, stream, sand, dry chemical, and carbon dioxide

Fire and Explosive Hazards: Non-Flammable. Sulfur can produce oxides. Hydrogen sulfide is a reaction product and is toxic and explosive.

Special fire fighting procedures: Fireman should wear NIOSH approved self-contained breathing apparatus with full facepiece, complete fire protection clothes and shoes. Use agents appropriate to surrounding materials to extinguish fire. Evaluate downwind area if large quantities are involved in fire.

Reference to other sections:

See Section 10 for decomposition products.

Section 6 – Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Protective Equipment Suggested for Outdoor Application: None

Protective Equipment Suggested for Confined Areas: Sufficient ventilation, eyewash station, emergency shower, dust mask, splash goggles

Methods and material for containment and cleaning up:

In case small leak or spill: If material is spilled, sweep, vacuum, or shovel material into container for reuse or disposal. Do not allow product to contaminate drains, sewers, streams, or bodies of water. May cause fish kills. Otherwise, in case of emergency call, day or night, 800-424-9300, Chemtrec.

In case large leak or spill: If material is spilled, sweep, vacuum, or shovel material into container for reuse or disposal. Stay upwind and keep out of low areas. Dispose of waste in accordance with local regulation. Eliminate potential source of ignition. Wear appropriate respirator and other protective clothing. Prevent large quantities from contacting vegetation. Keep animals away from large spills. May cause illness.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7 – Handling and Storage

Handling

Precautions for safe handling: Store in a cool, dry place if possible. Separate from pesticides, seed, feed, foodstuffs, drains, sewers, and water sources. Keep out of reach of children. Avoid contact with skin, eyes, and clothing.

Conditions for Safe Storage, including any incompatibilities

Storage: Do not contaminate water, food, or feed by storage. Store in a secure, dry, and temperate area. Maximum storage temperatures of 54°C to prevent product degradation and 118°C to prevent safety problem. Wet area can cause slippery conditions.

Requirements to be met by storerooms and receptacles: Store in cool place. Do not store near food or feed. Do not store in unmarked containers and keep away from incompatible products.

Reference to other sections:

See Section 10 for incompatibilities

See Section 6 for accidental release measure

Section 8 – Contact Controls and Personal Protection

Max allowed concentration: No Data

Way of measurement: No Data

Engineering Control: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep risk of inhalation low. Take safety shower after handling equipment. An adequate supply of clean potable water should be available to allow thorough flushing of the skin and eyes in even of contact with this material.

Personal Protection

Protective Equipment Suggested for Outdoor Application: None

Protective Equipment Suggested for Confined Areas: Sufficient ventilation, eyewash station, emergency shower, dust mask, splash goggles.

Respirators: Not normally needed for this product when diluted in water for end-use application. When needed, use MSHA/NIOSH approved respirator for pesticide.

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles such as splash resistant safety goggles with a secondary protection faceshield. Provide an emergency eye wash station and quick drench shower in the immediate confined area.

Body: Wear appropriate chemical resistant overalls and rubber boots and rubber gloves.]

Hands: Wear appropriate gloves made of any waterproof material.

General protective and hygienic measures: Wash contaminated clothing before reuse. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. No smoking, eating or drinking during handling. Change to clean clothes after washing.

Other conditions: When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Section 9 – Physical and Chemical Properties

Information on basic physical and chemical properties

General Information:

Appearance and Physical State: Small Granules

Color: Various Colors

pH Value: Not available

Viscosity: Not available

Vapor Pressure (25 °C): Negligible

Melting point: 54.44°C

Boiling Point: Not applicable

Specific Gravity: 1.5 g/cc @ 25°C

Comparative concentration (water: 1): Not available (not required for end use)

Quantity of heat in burning (KJ/mol): Not available (not required for end use)

Density (lbs./cu. ft.): 65 at 25°C

Critical pressure (Mpa): Not available

Critical temperature: Not available

Flash point (C): NA

Flammable Limits: above 95°C

Autoignition Temperature: Not available

Burning temperature (C): Not available

Explosion: Not available

Solubility: Soluble in water

Section 10 – Stability and Reactivity

Chemical Stability: This material is stable at the normal storage conditions.

Incompatible to Avoid: Separate from acids, hypochlorites, alkalies, chlorates, nitrate, and other oxidizer

Conditions to Avoid: Avoid heating above 95°C. Crystallization changes can destroy product's physical properties.

Decomposition Products: Biuret, ammonia, cyanuric acid, carbon monoxide, HS, and NO.

Hazardous Polymerization: Will not occur

Reference to other sections:

See Section 5 for static discharge potential

Section 11 – Toxicological Information

Acute Toxicity:

LD/LC50 values that are relevant for classification:

Oral: LD₅₀ : >5,000mg/kg

Inhalation: LC₅₀ Not available

Dermal: LD₅₀ Not available

Eyes: Mildly Irritant

Primary irritant effect:

On eyes: Moderate irritating to the eye

Respiratory sensitization: Single exposure to dust is not likely to be hazardous. Vapors are unlikely due to physical properties.

Skin Sensitization: Product is not considered a contact sensitizer.

Germ Cell Mutagenicity: The chromosome aberration test was negative.

Carcinogenicity: This product has negative Ames test results.

Reproductive Toxicity: Not available

STOT-Single Exposure: Not available

STOT-Repeated Exposure: Not available

Aspiration Hazard: Not available

Section 12 – Ecological Data

Eco-toxicity: Not available

Section 13 – Disposal Considerations

Waste Disposal: Do not contaminate water, food, or feed by disposal. Dispose of waste in accordance with all applicable Federal, State, and local laws. Improper disposal of excess pesticide, spray mixture, or rinsate is violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Disposal: Dispose according to federal EPA procedures as outlined in the Resource Conservation Recovery Act and follow state and local guidelines.

Section 14 – Transport Information

Section 15 – Regulatory Data

U.S. Federal Regulations

Hazard Data	FIFRA Classification/Typical Hazard Labeling, as outlined in EPA Label Review Manual	OSHA HCS Requirement for Section 2 of SDS
Signal Word	CAUTION	WARNING
Acute Toxicity, oral LD ₅₀ > 5,000mg/kg	(Category IV) No required hazard labeling	Not classified
Acute Toxicity, dermal	No required labeling	Not labeled
Acute Toxicity, inhalation LD ₅₀	No required labeling	Not labeled
Skin Irritation	No required labeling	Not labeled
Eye Irritation	(Category III) Cause moderate eye irritation	(Category 2B) Cause Eye irritation
Sensitization	Not labeled	Not labeled
Germ Cell Mutagenicity	Not classified	Not classified
Carcinogenicity	Not classified	Not classified
Reproductive/developmental Toxicity	Not classified	Not classified
Specific target organ toxicity, single exposure	Not classified	Not classified
Specific target organ toxicity, repeated exposure	Not classified	Not classified
Aspiration	Not classified	Not classified
Environmental (aquatic) toxicity	May be hazardous to aquatic organisms in neighboring areas.	Not within OSHA's jurisdiction, therefore not required on SDS.

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

Causes moderate eye irritation

Avoid contact with eyes or clothing

This label falls under PR Notice 2001-2 for pesticide/fertilizer combination.

Section 16 – Additional information

The information contained herein is based on available data. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the user thereof. You should make your own investigation to determine safety for the use you contemplate. NPF makes no warranty of merchantability or fitness for a particular use, nor is there any other expressed or implied warranty except as may be specifically provided otherwise on product.

Nelson Plant Food Corp. assumes no responsibility or liability for any incidental or consequential damages whether related to personal injury or property damage to vendees, users, or third parties, caused by the material and NPF's responsibility is limited to replacement of, or repayment of purchases price for the materials with respect to which any damages are claimed. All vendees or users assume all risk associated with the use of the material.

For further information, contact Nelson Plant Food Corp., P.O. Box 638, Bellville, Texas 77418 or 979-865-8596.

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