



Material Safety Data Sheet

OSHA / ANSI Z400.1-2004 Compliant

MSDS date: 21-Oct-2005

NFPA Rating: Health: 0 Flammability: 1 Instability: 1
HMIS Rating: Health: 0 Flammability: 1 Physical Hazard: 1 Personal Protection: X

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: TERASIL CYAN TS-4500
Product Number: 0288233
Chemical Family: Anthraquinone Dye Mixture
Intended Use: Textile Dye
Manufacturer/Supplier: Ciba Specialty Chemicals Corporation
4050 Premier Drive
HighPoint, NC 27265
8:30am - 5pm Phone Number: 1-336-801-2500
MSDS Request Line (voicemail): 1-800-431-2360
Customer Service/Product Information 1-800-334-8124
Emergency 24-Hour Health/Environmental Phone: 1-800-873-1138

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Signal Word: NOTICE!
Physical Form: Liquid Dispersion
Color: Blue
Odor: Characteristic
Health: This product has no known adverse effect on human health.
Physical Hazards: None Expected .

OSHA Hazardous Substance: This material is classified as not hazardous under OSHA regulations.
Potential Health Effects: None known
Primary Route(s) of Entry: Ingestion, Skin, Inhalation, Eyes.

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material does not contain any hazardous components above OSHA thresholds

4. FIRST AID MEASURES

- Eyes:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Skin:** Wash off immediately with soap and plenty of water. Get medical attention if irritation occurs.
- Inhalation:** Remove to fresh air, if not breathing give artificial respiration. If breathing is difficult, give oxygen and get immediate medical attention.
- Ingestion:** Do not induce vomiting. If vomiting occurs naturally, have casualty lean forward to reduce the risk of aspiration. Seek medical attention immediately.

5. FIRE FIGHTING MEASURES

- Fire Fighting Measures:** Standard procedure for chemical fires.
- Suitable Extinguishing Media:** Carbon dioxide, dry chemical or foam.
- Fire Fighting Equipment:** Wear self-contained breathing apparatus and protective suit.
- Hazardous Combustion Products:** Burning may produce toxic combustion products.

6. ACCIDENTAL RELEASE MEASURES

- Cleanup Instructions:** Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Wear suitable protective equipment. Should not be released into the environment.

7. HANDLING AND STORAGE

- Handling:** As with all industrial chemicals, use good industrial practices when handling. Avoid eye, skin, and clothing contact. Do not inhale. Do not taste or swallow. Use only with adequate ventilation.
- Storage:** Keep containers tightly closed in a cool, well-ventilated place.

For Industrial Use Only

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:

There are no OSHA or ACGIH exposure guidelines available for component(s) in this product.

Personal Protective Equipment

Eye/Face Protection:	Wear splash proof chemical goggles.
Skin Protection:	Wear chemical resistant gloves and protective clothing.
Respiratory Protection:	Use NIOSH approved respirator as needed to mitigate exposure.
Engineering Controls:	Work in well ventilated areas. Do not breathe vapors or mist.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form:	Liquid Dispersion
Color:	Blue
Odor:	Characteristic.
Boiling Point:	~ 100°C (212°F)
Freezing/Melting Point:	Not determined
Solubility in water:	Dispersible
Vapor Density:	Not determined
Vapor Pressure:	Not determined
Density:	1.05 g/cm ³ @ 20°C (68°F)
Specific Gravity:	Not determined
Viscosity:	2-8 mPa @ 20°C (68°F)
pH:	6 - 8 @ 20 g/L solution
Percent Volatile:	Not determined
VOC:	~0.26% (Estimated, based on component wt. %)
Partition Coefficient (Octanol/Water):	Not determined
Autoignition Temperature:	Not determined
Decomposition Temperature:	Not determined
Flammability Limits in Air:	
Flash point:	> 100°C (212°F)
Test Method (for Flash Point):	Not determined

10. STABILITY AND REACTIVITY

Stability:	Stable.
Conditions to Avoid:	None known
Incompatibility:	Strong oxidizing agents, strong acids, strong bases.
Hazardous Decomposition Products:	No decomposition expected under normal storage conditions.
Possibility of Hazardous Reactions:	None expected.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:	(Rats) LD50 > 2,000 mg/kg
Acute Dermal Toxicity:	Not determined
Acute Inhalation Toxicity:	Not determined.
Eye Irritation:	(Rabbits) Not an irritant.

Skin Irritation:	(Rabbits) Not an irritant.
Skin Sensitization:	Not determined
Carcinogenicity (IARC; NTP; OSHA; ACGIH):	None of the components in this product at concentrations greater than 0.1% are listed by IARC; NTP, OSHA or ACGIH as a carcinogen.
Mutagenicity:	Not determined
Reproductive Toxicity:	Not determined
Teratogenicity:	Not determined.
Neurotoxicity:	Not determined
Subacute Toxicity:	Not determined
Subchronic Toxicity:	Not determined
Chronic toxicity:	Not determined
Absorption / Distribution / Excretion / Metabolism:	Not determined
Additional Information:	Not determined

12. ECOLOGICAL INFORMATION

Toxicity to Fish:	(Zebra fish) LC50 > 1,000 mg/L 96 hour
Toxicity to Invertebrates:	Not determined
Toxicity to Algae:	Not determined
Toxicity to Sewage Bacteria:	IC50 > 320 mg/L 3 hour
Activated Sludge Respiration Inhibition Test:	Not determined
Biochemical Oxygen Demand (BOD):	0 mg O ₂ /g
Chemical Oxygen Demand (COD):	1,455 mg O ₂ /g
Total Oxygen Demand (TOD):	Not determined
Biodegradability:	Bioelimination 80 - 90%, DOC analysis (OECD 302B). Eliminated by adsorption on effluent treatment sludge.
Bioaccumulation:	Not determined
Additional Environmental Data:	Not determined

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose in accordance with local, state, provincial and federal regulations.

14. TRANSPORT INFORMATION

U.S. Department of Transportation (DOT):

Not regulated for this mode of transport.

International Maritime Dangerous Goods (IMDG):

Not regulated for this mode of transport.

International Air Transportation Authority (IATA):

Not regulated for this mode of transport.

15. REGULATORY INFORMATION

Federal Regulations

OSHA Hazardous Substance: This material is classified as not hazardous under OSHA regulations

Clean Air Act - Hazardous Air Pollutants (HAP): This product does not contain any Hazardous Air Pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

Clean Air Act - Volatile Organic Compounds (VOC): This product contains the following SOCM Intermediate or Final Volatile Organic Compounds (VOC), as defined by the U.S. Clean Air Act Section 111 (40 CFR 60.489). Refer to VOC data in section 9.

Components	CAA Section 111 Volatile Organic Compounds
Polyethylene glycol 25322-68-3	Listed.
Ethanol, 2,2'-oxybis- 111-46-6	Listed.
Propanol, oxybis- 25265-71-8	Listed.

Clean Air Act - Ozone Depleting Substances (ODS): This product neither contains, nor was manufactured with, a Class I or Class II ozone depleting substance (ODS), as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A+B).

Clean Water Act - Priority Pollutants (PP): This product does not contain any priority pollutants listed under the U.S. Clean Water Act Section 307 (2)(1) Priority Pollutant List (40 CFR 401.15).

Resource Conservation and Recovery Act (RCRA): Not a hazardous waste under RCRA (40 CFR 261.21).

SARA Section 302 Extremely Hazardous Substances (EHS): This product does not contain any components regulated under Section 302 (40 CFR 355) as Extremely Hazardous Substances.

SARA Section 304 CERCLA Hazardous Substances: This product contains the following component(s) regulated under Section 304 (40 CFR 302) as hazardous chemicals for emergency release notification ("CERCLA" List).

Components	Section 304 CERCLA Hazardous Substances	CERCLA Reportable Quantity
Sodium hydroxide 1310-73-2 (0.00325 %)	Listed.	1000 LBS

SARA Section 311/312 Hazard Communication Standard (HCS): This product is not regulated under Section 311/312 HCS (40 CFR 370).

SARA Section 313 Toxic Chemical List (TCL): This product does not contain any component(s) listed on the Section 313 Toxic Chemical List.

TSCA Section 8(b) Inventory Status: All component(s) comprising this product are either exempt or listed on the TSCA inventory.

TSCA Section 5(e) Consent Orders: This product is not subject to a Section 5(e) Consent Order.

TSCA Significant New Use Rule (SNUR): This product is not subject to a Significant New Use Rule (SNUR).

TSCA Section 5(f): This product is not subject to a Section 5(f)/6(a) rule.

TSCA Section 12(b) Export Notification: This product contains the following component(s) that are subject to a Section 12(b) Export Notification:

Components	TSCA Section 12(b) Export Notification
2-Methyl-2H-isothiazol-3-one 2682-20-4	Annual Export Notification required.

State Regulations

California Proposition 65: This product does not contain any components currently on the California list of Known Carcinogens and Reproductive Toxins.

Pennsylvania Right-To-Know: This product does not contain any components that are subject to the Pennsylvania Right-To-Know disclosure requirement.

International Regulations

Chemical Weapons Convention (CWC): This product does not contain any component(s) listed under the Chemical Weapons Convention Schedule of Chemicals.

Domestic Substance List (DSL) Status: Not all components are listed on the DSL.

16. OTHER INFORMATION

Reason for revision: Section(s) revised: Formulation

Disclaimer: The information contained herein is based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to such data or information. The user is responsible for determining whether the product is suitable for its intended conditions of use.