



Material Safety Data Sheet

HydroDye, Waterborne Concrete Dye

1. Product and Company Identification

Product Code	HD	Emergency Phone	CHEMTREC 800-424-9300
Product Name	HydroDye™	Business Phone	+(962-6) 487-4078
Manufacturer	Creative Concrete Concepts	Business Fax	+(962-6) 488-9133
Address	P.O. Box 925794		
City, Zip, Country	Amman, 11110 Jordan		
Last Updated	March 24, 2006		

2. Composition / Information on Ingredients

Chemical Name	CAS No.	ACGIH TLV	OSHA TWA
Ethoxylated 2,4,7,9-tetramethyl 5 decyn-4,7-diol	9014-85-1	NE	NE

3. Hazards Identification

Emergency Overview:

In a confined area, vapors in high concentrations may cause headache, nausea, or dizziness. Prolonged or repeated exposure may cause irritation to eyes, skin, and upper respiratory tract.

Signs and Symptoms of Exposure

Eyes — Contact with eyes may cause irritation including burning, watering, and redness.

Skin — Contact may cause mild skin irritation and redness.

Inhalation — May cause irritation to the respiratory tract, headaches, and dizziness.

Ingestion — Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Medical Conditions Generally Aggravated by Exposure

Conditions aggravated by exposure may include dermatitis, and eye disease.

4. First Aid Measures

Emergency and First Aid Procedures:

Inhalation— Move affected individual to fresh air. If breathing is difficult, qualified personnel should administer oxygen. If breathing has stopped give artificial respiration. If respiratory symptoms develop or persist, seek medical attention.

Skin— Thoroughly wash exposed area with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. If irritation develops and persists, seek medical attention.

Ingestion— Do not induce vomiting. Keep person warm, quiet and seek immediate medical attention. Aspiration of material into lungs can cause severe lung damage. Never give anything by mouth to an unconscious person.

Eyes— DO NOT RUB EYES. Flush IMMEDIATELY with large amounts of water for 15 minutes, lifting upper and lower lids occasionally. If symptoms persist, seek medical attention.

5. Fire Fighting Measures

Flash Point (Method Used):	>145° F (TCC)
Flammable Limits in Air by Volume:	Not Determined

5. Fire Fighting Measures... Continued

Extinguishing Media:

Foam, CO₂, or dry chemical is recommended. Water spray is recommended to cool or protect exposed materials or structures.

Special Fire Fighting Procedure:

Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Cool tightly closed containers exposed to fire with water

Unusual Fire and Explosion Hazards:

Closed containers may rupture due to high buildup of pressure and weakening of the container structure when exposed to extreme heat.

6. Accidental Release Measures

Steps to Be Taken in Case Material is Released or Spilled:

Only qualified personnel who have read the product Tech-Data Bulletins and this MSDS should conduct these procedures. Persons not wearing protective equipment should be excluded from the area. Follow procedures in Section VIII-Exposure Controls/Personal Protection. Liquid material spills may be slippery.

Cordon off area if necessary to prevent unauthorized traffic or entry. Eliminate sources of ignition. Promptly dike to prevent spreading and stop spill at source. Collect with wet vacuum or absorb with inert material and place in labeled waste container for disposal together with all contaminated matter or equipment. If unable to prevent release to soil or waters of the State, immediate notice to local regulatory authorities is required.

7. Precautions for Safe Handling and Use

Precautions to be Taken in Handling and Storing:

Follow personal protection procedures (Section VIII) when handling the material. Store upright in a cool, dry, well-ventilated area, in tightly closed containers away from combustible materials and sources of heat. Avoid freezing. Once frozen, do not use. Store between 45° F and 120° F. Protect from physical damage. Labels must not be removed from containers. Product should only be stored in original containers.

8. Exposure Controls and Personal Protection

Respiratory Protection:

Wear P100/organic vapor respirator (NIOSH TC-84A approved). 3M Company's Tech Line (1-800-243-4630) may be helpful for respirator advice and availability. For respiratory protection guidelines refer to OSHA 29 CFR 1910.134.

Ventilation/Engineering Controls:

Adequate ventilation and sufficient local exhaust as needed to maintain exposure below TWA and TLV limits.

Protective Gloves:

Wear impervious, chemical-resistant gloves (PVC or Nitrile).

Eye Protection:

Wear chemical-splash goggles.

Other Protective Clothing or Equipment:

A source of clean water should be available for flushing eyes and skin. Showers should be available if larger spills are possible.

Work/Hygienic Practices:

Efforts should be made to minimize contact and spills. Always wash hands before eating, drinking, or smoking. Clean up spills promptly. Follow OSHA and company guidelines.

9. Physical and Chemical Properties

Physical State:	Liquid	Color:	Various
Odor:	Slight Odor	Solubility in Water:	Soluble
PH:	8.5-10	Vapor Pressure (mm Hg):	Of Water
Specific Gravity (H₂O=1):	Approximately 1	Vapor Density (Air=1):	Of Water
Boiling Point:	Approx. 212° F	Evaporation Rate:	Similar to Water
Freezing Point:	Approx. 32° F	VOC:	<100 g/l (0.83 lb/gal)

10. Stability and Reactivity

Stability:	Stable	Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Freezing. Excessive heat or open flame.	Materials to Avoid:	Strong oxidizing agents. Strong acids or bases.
Hazardous Decomposition or By-products:			Aldehydes, ketones, CO and CO ₂ may be produced.

11. Toxicological Information

Sensitization:

None known.

Carcinogenicity:

There is no data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.

Reproductive Toxicity:

There is no data available to indicate any components present at greater than 0.1% may present reproductive toxicity.

Teratogenicity (Birth Defects):

There is no data available to indicate any components present at greater than 0.1% may cause birth defects.

Mutagenicity:

There is no data to indicate that any component present at greater than 0.1% will alter DNA.

12. Ecological Information

Aquatic Toxicity Rating:

LC50 aquatic toxicity rating not determined. Although there is no toxicity data available, it is reasonable to assume that sufficient quantities will affect aquatic life. Precautions should be taken to prevent the accidental release of this material to the environment

13. Disposal Considerations

Waste Disposal Method:

Follow personal protection procedures (Section VIII) when disposing of material. Disposal of all residual product, used absorbent materials, and discarded equipment must be in accordance with all applicable federal, state, and local regulations.

CCC cannot make specific recommendations for disposal in any particular locality. The user is cautioned to be thoroughly familiar with all applicable requirements before use. Without endorsement of any particular waste disposal company, CCC offers the following companies as possible resources for the disposal of industrial or hazardous waste:

Onyx Environmental 1-800-426-2382 Heritage Environmental 1-800-827-4374

Companies who dispose of hazardous waste may also be found on the Internet using "Hazardous Waste Disposal" as key search words.

14. Transportation Information

DOT Hazard Class: Not Regulated

15. Regulatory Information

U.S. Federal Regulations:

This product contains one or more chemicals subject to the reporting requirements of Sections 311-312 of Title III of the Superfund Amendments and Reauthorization Act.

OSHA Standard 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a hazard communication program including labeling, material safety data sheets, training, and access to written records. It is your legal duty to make all information in this Material Safety Data Sheet available to your employees

15. Regulatory Information... Continued

State Specific Requirements:

State of California *Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)*; WARNING: This product contains one or more chemicals known to the State of California to cause cancer, or birth defects or other reproductive harm.

WHMIS Classification:

Not Determined.

International Regulations:

Consult the regulations of the importing country.

16. Other Information

Before Using This Product:

IMPORTANT! Read this MSDS before use or disposal of this product. Pass along the information to employees and any other persons who could be exposed to the product to be sure that they are aware of the information before use or other exposure. This MSDS has been prepared according to the OSHA Hazard Communication Standard (29 CFR 1910.1200). To the best of our knowledge, the information contained herein is accurate and the information is based on sources believed to be reliable. However, since data, safety standards, and government regulations are subject to change, CREATIVE CONCRETE CONCEPTS makes no warranty, either expressed or implied with respect to the completeness or continuing accuracy of the information contained herein and disclaims all liability for reliance thereon. The data on this sheet is related only to this specific material. It may not be valid for this material if used in combination with any other materials. It is the user's responsibility to determine suitability and completeness of this information with regards to a particular use. Additional information may be necessary or helpful for specific conditions and circumstances of use. Unknown hazards may exist and this material should be used with caution. CREATIVE CONCRETE CONCEPTS assumes no legal responsibility for use or reliance upon this data.