



NFPA Rating



HMIS Rating

HEALTH	2
FLAMMABILITY	2
PHYSICAL HAZARD	0
PERSONAL PROTECTION	H

Material Safety Data Sheet Helix Concrete Dye Liquid Concentrate



Also referred to as "RetroPlate Concrete Dye Concentrate"
Distributed by Advanced Floor Products

Date: 0314

Page No.: 1 of 6

Version: 1

File Name: *ConDye*

1. SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION:

Company:
ChemSystems, Inc.
10101 Genard Road
Houston, TX 77041

24-Hour Emergency Response Information
CHEMTREC: 800.424.9300

Product Name: Helix Concrete Dye Liquid Concentrate - ALL COLORS
Product Description: Organic Colorant Solution
Chemical Family: Confidential Color Compound
Synonyms: Unspecified

2. COMPOSITION/INFORMATION ON INGREDIENTS:

<u>CAS NO.</u>	<u>Chemical Name</u>	<u>Wt %</u>	<u>OSHA-PEL</u>	<u>ACGIH-TLV</u>	<u>PEL</u>
7440-47-3	CR+3 Complex Dye	1-10%	0.5 mg/m ³ TWA	0.5 mg/m ³ TWA	N/A
2807-30-9	Glycol ether EP	40-50%	Not Established	Not Established	Lowest possible exposure or zero with best PPE

3. HAZARD IDENTIFICATION:

Emergency overview:

CAUTION! May be harmful if inhaled. May cause moderate eye and respiratory irritation, mild skin irritation.
Use local exhaust ventilation.

Wear splash goggles with face shield.

Wear chemical-resistant gloves and protective clothing.

Potential health effects:

Primary Routes of Entry-

Solids and liquids: Eye and skin contact and ingestion.

Gases: Inhalation and eye contact.

Liquefied gases: Eye contact.

Material Safety Data Sheet

Helix Concrete Dye Liquid Concentrate

Date: 0314
Version: 1

Page No.: 2 of 6
File Name: *ConDye*

4. FIRST-AID MEASURES:

General advice:

Remove contaminated clothing.

If in eyes:

Immediately rinse eyes with flowing water for 15 minutes while holding eyelids open.

Get immediate medical attention, as a precaution.

If on skin:

Immediately remove contaminated clothing. Wash affected area with soap and rinse with plenty of water.

Get immediate medical attention, as a precaution.

If inhaled:

Move to fresh air. If breathing is difficult give oxygen, call 911, calm the individual. If not breathing, call 911 give artificial respiration (CPR) until medical help arrives.

If swallowed:

Do not induce vomiting unless directed to do so by a doctor or by emergency medical personnel. Forced vomiting of certain chemicals may cause aspiration and lung damage.

Note to physician:

Unspecified.

5. FIRE-FIGHTING MEASURES:

Flash point:

125 °F

LEL:

Not established.

UEL:

Not established.

Suitable extinguishing media:

Water fog or spray, dry extinguishing media, CO₂, foam.

Water spray may be used to keep fire-exposed containers cool if they cannot be safely moved.

Hazards during fire-fighting:

Use water spray to cool fire exposed containers if they cannot be safely moved.

Protective equipment for fire-fighting:

Wear NIOSH-approved self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions:

Use recommended personal protective clothing and equipment. Equipment used when handling this product must be grounded.

Environmental precautions:

Immediately dike liquid spills with inert absorbent material (sand, "oil dry" or other commercially available spill absorbent) to contain and soak up liquid. Prevent material from entering floor drains, sewers, or any bodies of water. For powder spills, use sweeping compound, sawdust, or other appropriate material to contain dust. If possible, recover any uncontaminated materials to re-use.

Cleanup:

Solvent dye residue may be cleaned by scrubbing with detergent, depending on type. Do not add water to water-soluble dyes. Dye is concentrated. this will increase amount of color to remove. All cleaning or scrubbing liquids used should be absorbed and placed in labeled containers for correct disposal. Absorbent material containing solvents may release combustible or flammable vapors and should be handled accordingly, properly labeled and disposed.

Material Safety Data Sheet

Helix Concrete Dye Liquid Concentrate

Date: 0314
Version: 1

Page No.: 3 of 6
File Name: *ConDye*

7. HANDLING and STORAGE:

Handling:

General advice-

No specific measures necessary provided product and recommended protective clothing/equipment are used correctly.

Storage:

General advice-

Store in tightly closed, properly vented containers away from direct sunlight, heat, sparks, open flames and strong oxidizing agents. Do not allow product to freeze.

8. EXPOSURE CONTROLS and PERSONAL PROTECTION:

Advice on system design:

Provide local exhaust ventilation to control vapors/mist.

Personal protective equipment (HMIS rating 'H'):

Eye protection: Splash-goggles with Face Shield.

Skin protection: Chemical-resistant gloves. Wear protective clothing to minimize skin contact.

Respiratory protection: NIOSH approved respirator or Dust respirator.

General safety and hygiene measures: Handle in accordance with good industrial hygiene and safety practices. Due to the coloring properties of the product, closed work clothes should be worn to avoid stains during installation. Wash soiled clothing before reuse.

Other protective measures:

Nearby running water on the job site is necessary should an accident occur.

9. PHYSICAL and CHEMICAL PROPERTIES:

Form:	Liquid
Odor:	Mild ether
Color:	Red
pH value:	Unspecified
Water content:	15-25%
Total solids/Non-volatiles:	56%
Total VOC:	44%
Solvents by weight:	40-50%%
Specific gravity (liquid):	1.11
Solidification temperature:	Unspecified
Freezing/Melting point:	Unspecified (do not allow product to freeze)
Boiling point:	Unspecified
Flash point:	125 °F
Density:	Unspecified
Viscosity dynamic:	Unspecified
Solubility in water:	Soluble in water. Test in specific applications and systems.

Material Safety Data Sheet

Helix Concrete Dye Liquid Concentrate

Date: 0314
Version: 1

Page No.: 4 of 6
File Name: *ConDye*

10. STABILITY and REACTIVITY:

Conditions to avoid:

Extreme heat, incompatibles

Substances to avoid:

Strong oxidizing agents, e.g. bleach.

Hazardous reactions:

Product is chemically stable.

Decomposition products:

Burning can produce carbon monoxide.

Corrosion to metals:

No corrosive effect on metal.

11. TOXICOLOGY INFORMATION:

Acute Toxicity:

Oral:

Unspecified

Eye irritation:

Severe irritant.

Skin irritation:

Mild irritant

Inhalation:

May be harmful if inhaled. Mild irritant.

Sensitization:

Skin: Not established. Respiratory: Not established.

Chronic Toxicity:

Other information:

Unspecified

12. ECOLOGICAL INFORMATION:

Biodegradation:

Test method:

Unspecified

Analysis method:

Unspecified

Degree of elimination:

Unspecified

Environmental toxicity:

Acute and prolonged toxicity to fish:

Unspecified

Toxicity to microorganisms:

Unspecified

Other ecotoxicological advice:

Unspecified

Material Safety Data Sheet

Helix Concrete Dye Liquid Concentrate

Date: 0314
Version: 1

Page No.: 5 of 6
File Name: *ConDye*

13. DISPOSAL CONSIDERATIONS:

Waste disposal of substance:

Dispose of in accordance with local, state and federal regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA (EPA regulations for hazardous waste).

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

RCRA:

None.

14. TRANSPORTATION INFORMATION:

Land transportation:

US DOT Shipping Class

Proper Shipping Name: Not regulated via ground transport in containers <119 gallons. DOT allow reclass with FP>100 °F and no other regulated hazards.

UN Number: UN1263

Sea & Air transportation:

IMDG/IMO/IATA

Proper Shipping Name: Paint Related Material

Hazard Class/Division: 3

UN Number: UN1263

Packing Group: III

Notes/Special Precautions: Not regulated. DO NOT FREEZE. label accordingly.

15. REGULATORY INFORMATION:

Federal Regulations:

Registration status:

TSCA, US Unspecified

OSHA hazard category: 29 CFR 1910.1200 and related appendices (unprotected contact)

SARA hazard category (EPCRA 311/312):

Immediate/Acute Health Hazard: Yes

Chronic/Delayed Hazards: Yes

Fire Hazard: Yes

Sudden release of Pressure Hazard: No

Reactivity Hazard: No

CAS Number:

7440-47-3

2807-30-9

Chemical Name:

CR+3 Complex Dye

Glycol ether EP

Material Safety Data Sheet

Helix Concrete Dye Liquid Concentrate

Date: 0314

Version: 1

Page No.: 6 of 6

File Name: *ConDye*

16. OTHER INFORMATION:

NFPA Rating:

Health: 2

Reactivity: 0

Fire: 2

Special Hazard: none

HMIS III Rating:

Health: 2

Physical Hazard: 0

Flammability: 2

Personal Protection: H

Both NFPA and HMIS III rating systems use a numbering scale that ranges from 0 to 4 to indicate the degree of hazard. A value of zero means the substance possesses no hazard while a value of four indicates high hazard.

HMIS III personal protection ratings A-K are specified by HMIS, while ratings L-Z are specified by this manufacturer- please review section 8 for specific safety equipment recommended for use with this product.

Reason for Revision:

N/A New document

Reviewed:

CS/0314

Local Contact Information:

ChemSystems, Inc.

10101 Genard Road, Houston, TX 77041

800.545.9827

24-Hour Emergency Response Information:

CHEMTREC: 800.424.9300

Notice: While the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for user guidance only. Many factors may affect processing or application/use, ChemSystems, Inc. recommends user-tests to determine suitability for a particular purpose, prior to use. In no case shall descriptions, designs, data or information provided be considered a part of the terms or conditions of sale. Further, the user expressly understands and agrees that CSI assumes no obligation or liability for the descriptions, designs, data or information given or results obtained as all such being given and accepted at users own risk.

Warranty: This product is warranted to be of uniform quality within manufacturing tolerances. Since control is not exercised over its use, no warranty, expressed or implied, is made as to the effects of such use. Seller's and manufacturer's obligation under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective. The user assumes all other risks and liabilities resulting from use of this product. If you have any questions, please contact ChemSystems, Inc..