

## 1. IDENTIFICATION

**Product identifier**

**Product Name** UDT Concrete Dye

**Other means of identification**

**SKU(s)** 492101, 492102, 492104, 492100, 492106, 492107

**Manufacturer Address**

ULTRA DURABLE Technologies  
355 6th Ave N  
Waite Park, MN 56387  
320-258-2266

**Emergency Telephone**

Chemtrec within the United States 1-800-424-9300  
Chemtrec within Canada 1-703-527-3887

## 2. HAZARDS IDENTIFICATION

**Classification**

Health	Category 1
Flammability	Category 1
Reactivity	Category 0

**Danger**



**Hazard statements**

Irritant

**Precautionary Statements**

**Prevention:**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.

**Response:**

If exposed or concerned get medical attention.

**Storage:**

Store locked up.

**Disposal:**

Dispose of contents/containers at an approved waste disposal plant.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Wt %	Trade Secret
Confidential Dye	Undisclosed	30 – 40%	*
Cr+3 (Complexed in dye molecule)	7440-47-3	1 – 10%	*

### 4. FIRST AID MEASURES

#### **Emergency Overview**

Unprotected contact and prolonged exposure may cause mild skin irritation. May cause allergic reactions in some sensitive individuals.

#### **Eye Contact**

Rinse thoroughly with plenty of water for at least 15 minutes, lifting upper and lower eyelids. Remove contact lenses if present and easy to do. Consult a physician.

#### **Skin Contact**

Immediately remove contaminated clothing. Wash skin thoroughly with soap and water. If irritation persists, consult a physician.

#### **Inhalation**

Remove to fresh air. If irritation persists, consult a physician

#### **Ingestion**

Clean mouth with water and drink plenty of water after. Consult poison control center. If symptoms persist or worsen, consult a physician. Do not induce vomiting unless instructed to do so by a doctor or emergency medical personnel.

#### **Most important symptoms and effects, both acute and delayed:**

**Symptoms** No information available.

#### **Indication of any immediate medical attention and special treatment needed:**

**Note to physicians** Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### **Suitable extinguishing media:**

CO<sub>2</sub>, Dry chemical, Foam, Water for or spray

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable extinguishing media**

CAUTION: Use of water spray when fighting fire may be inefficient.

#### **Specific hazards arising from the chemical:**

No information available.

#### **Explosion data**

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

#### **Protective equipment and precautions for firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### **Auto-ignition Temperature**

Not applicable

Lower Exposure Level

Not applicable

Upper Exposure Level

Not applicable

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures:

**Personal Precautions** Ensure adequate ventilation, especially in confined areas  
**Protective Equipment** Wear appropriate PPE and maintain good industrial hygiene and safety practice

### Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological information

### Methods and material for containment and cleaning up:

**Methods for containment** Prevent further leakage or spillage if safe to do so  
**Methods for cleaning up** Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminates surface thoroughly. Prevent material from entering storm drains, sewers, or any bodies of water.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Wear appropriate PPE in accordance with good industrial hygiene and safety practices.

### Conditions for safe storage, including any incompatibilities:

**Storage Conditions** Keep container tightly closed. Store locked up in a well-ventilated area. Store in a cool and dry area. Store out of direct sunlight. Keep away from heat and sources of ignition.

**Incompatible materials** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### **Exposure Guidelines**

NIOSH IDLH (Immediately Dangerous to Life or Health)

#### **Other Information**

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

### Appropriate engineering controls

**Engineering Controls** Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/face protection** No special technical protective measures are necessary

**Skin and body protection** No special technical protective measures are necessary

**Respiratory Protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

Chemical Name	WT %	NIOSH - REL	NIOSH - IDLH	OTHER OEL's
Cr+3 (Complexed in dye molecule) 7440-47-3	1 - 10%	0.5 mg/m3 TWA	Not Established	Not Established

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Flash Point:</b>	200°F
<b>pH:</b>	7.0 - 8.0
<b>% Water Content:</b>	65.00 - 75.00
<b>% Total Solids / Non-Volatiles:</b>	1.63
<b>% Total VOC:</b>	0.00
<b>% Solvents:</b>	0
<b>% Other Components:</b>	Preservative @ 0.1
<b>Boiling Point:</b>	Approx. 100 °C (212 °F)
<b>Appearance:</b>	Varies by color
<b>Odor:</b>	Mild to none
<b>Freezing/Melting Point:</b>	~ 32 °F
<b>Lbs. per gallon:</b>	9.18
<b>Specific Gravity (Liquid):</b>	1.09
<b>Vapor Pressure:</b>	0
<b>Solubility:</b>	Soluble - Test as required
<b>Other Properties:</b>	No further data

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions
<b>Conditions to Avoid</b>	Extreme temperatures, ignition sources, and direct sunlight
<b>Incompatible Materials</b>	None known
<b>Hazardous Decomposition Products</b>	Oxides of carbon, nitrogen, sulfur

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

<b>Product Information</b>	No data available
<b>Inhalation</b>	No data available.
<b>Eye contact</b>	No data available.
<b>Skin Contact</b>	No data available.
<b>Ingestion</b>	No data available.

Chemical Name	Oral LD50	Inh LC50	Mutagen
Cr+3 (Complexed in dye molecule) 7440-47-3	No Data	No Data	No Data

Component	OSHA - PEL	ACGIH - TLV	Recommended PEL
Confidential Dye	Not Established	Not Established	Lowest possible exposure or zero with best PPE.
Cr+3 (Complexed in dye molecule) 7440-47-3	0.5 mg/m3 TWA	0.5 mg/m3 TWA	Not Applicable

### Symptoms related to the physical, chemical and toxicological characteristics:

<b>Symptoms</b>	No information available.
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**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

Sensitization	No information available.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
IARC (International Agency for Research on Cancer)	
Group 3 - Not classifiable as a human carcinogen	
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

0% of the mixture consists of component(s) of unknown hazards to the aquatic environment

**Persistence and degradability**

No information available.

**Bioaccumulation**

No information available.

**Other adverse effects**

No information available

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

Disposal of wastes	Disposal should be in accordance with applicable regional, national, and local laws and regulations.
Contaminated packaging	Do not reuse container.

**14. TRANSPORT INFORMATION**

DOT Regulations (Ground)	Not regulated
IATA Regulations (Air)	Not regulated
IMDG / IMO Regulations (Water)	Not regulated

**15. REGULATORY INFORMATION****International Inventories**

TSCA	Complies
DSL/NDSL	Complies *
EINECS/ELINCS	Complies *
ENCS	Does not comply *
IECSC	Complies *
KECL	Complies
PICCS	Complies *
AICS	Complies *

\* This product contains an unknown chemical, therefore, this product's compliance to the inventory list is NOT DETERMINED

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

**US Federal Regulations**

Component	CAS Number	Weight %	Regulatory List
Confidential Dye	Undisclosed	30 – 40%	No listings known to be applicable
Cr+3 (Complexed in dye molecule)	7440-47-3	1 – 10%	CERCLA, CWA, RCRA, D007, SARA 313: 0.1%, States: DE, MA, MN, NJ, NY

**SARA 311/312 Hazard Categories:**

Immediate / Acute Health Hazard	Yes
Chronic / Delayed Hazard:	Yes
Fire Hazard:	No
Sudden Release of Pressure Hazard:	No
Reactivity Hazard:	No

**EU Reach:**

Keystone has taken all relative steps to ensure REACH-Compliance. Please contact us with any REACH-Related questions.

**OTHER LISTINGS:**

Other national or regional registrations not yet determined.

**Additional Info:**

For additional international, federal or state regulatory compliance information not shown: Call 312-666-2015.

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

<b><u>NFPA</u></b>	<b>Health hazards 1</b>	<b>Flammability 1</b>	<b>Instability 0</b>	<b>Physical and chemical properties -</b>
<b><u>HMS</u></b>	<b>Health hazards 1 *</b>	<b>Flammability 1</b>	<b>Physical hazards 0</b>	<b>Personal protection X</b>

**Chronic Hazard Star Legend**      \* = Chronic Health Hazard

Preparation Date	01-Jan-2023
Revision Date	19-Jun-2024
Revision Note	General formatting updates

**Disclaimer**

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End of Safety Data Sheet