

**DDF**  
**DarCole De-Foamer**  
**Safety Data Sheet**



**DarCole Products, Inc.**

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*“Concrete Additives for Cement Attitudes”*

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND COMPANY INFORMATION**

Product Identification

- Trade Name: **DDF**
- Product Use: Air detrainng concrete admixture
- Restrictions on Use: Intended for industrial and professional users
- CAS#: 126-73-8

Company Information

- DarCole Products, Inc.  
1940 Hwy 41 South  
Sebree, KY 42455  
270-826-6499

Emergency Number-(serviced 24 hours)

- CHEMTREC 800-424-9300

**2. HAZARDS IDENTIFICATION**

Classification of substance or mixture:

Carcinogen	Category 2	Suspected of Causing Cancer
Skin irritation	Category 2	Causes skin irritation
Acute Toxicity: Oral	Category 4	Harmful if swallowed

Label Elements: This material requires a hazard warning label in accordance with GHS criteria.



Pictogram:

Signal Word: **WARNING**

Hazard Statement(s):

H351: Suspected of causing cancer.

H315: Causes skin irritation

H302: Harmful if swallowed

Precautionary statement(s):

P264: Wash hands thoroughly after handling

P270: Do not eat, drink or smoke when using this product

P280: Wear protective gloves/protective clothing/eye protection/face protection

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Precautionary statements (response):

P308+P313: If exposed or concerned: Get medical advice

P302+P352: IF ON SKIN: Wash with plenty of soap & water

P332+P313: If skin irritation occurs: Get medical advice

P362: Take off contaminated clothing and wash before reuse

P301+P312: IF SWALLOWED: Call a poison center or physician if you feel unwell

P330: Rinse mouth

Hazards not otherwise classified: Not applicable

Additional classifications:

**HMIS Ratings** (scale 0-4)

Health-3 Serious

Fire- 1 Slight

Reactivity- 0 Minimal

### 3. COMPOSITION/INFORMATION ON HAZARDOUS INGREDIENTS

**Components:**

Chemical Name:	CAS#:	Content
Phosphoric Acid, tributyl ester	126-73-8	90-100%

### 4. FIRST AID MEASURES

Inhalation: Move person away from exposure. If having difficulty breathing, administer oxygen. If breathing has stopped, administer artificial respiration and seek medical attention.

Eyes: Flush eyes with water lifting upper and lower lids occasionally for 15 minutes. Seek medical attention.

Skin: Remove contaminated clothing. Wash affected area thoroughly with soap and water. If irritation persists, seek medical attention.

Ingestion: Contact physician or Poison Control Center (PCC) immediately. Do NOT induce vomiting unless instructed to do by physician or PCC.

Note to physician: If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately.

### 5. FIREFIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide, dry chemicals, foam, water fog

Unsuitable extinguishing media: Straight steams of water

Specific hazards in case of fire: Prevent runoff. Use water spray to cool fire exposed surfaces.

Special protective equipment required for firefighting: SCBA (Self Contained Breathing Apparatus)

Additional information for firefighters: May release poisonous and corrosive fumes of carbon dioxide, carbon monoxide and phosphorus oxides.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

- Wear appropriate PPE
- Keep unprotected persons away
- Eliminate all ignition sources
- Use only non-sparking tools for clean up and remediation

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Environmental precautions: Prevent material from entering drains, septic systems, water sources, etc. by the use of dikes, absorbent materials and booms.

Material containment and clean up: Contain material with dikes. Absorb with absorbent materials and put in closed container. Remove spilled material to storage for proper disposal. Dispose of in accordance with local, state and federal regulations. See section 13.

## 7. HANDLING AND STORAGE

Precautions for safe handling: Avoid breathing mists or vapors. Use only with adequate ventilation.

Information about safe storage: Store only in original container. Keep container closed. Store in a cool dry well ventilated area.

Shelf Life: 18 months

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTIONS

Additional information about exposure controls: Adequate ventilation should be provided so that exposure limits are not exceeded.

Substance	Standard	Limit
Phosphoric Acid, tributyl ester	ACGIH-TVL	5 mg/m <sup>3</sup>
Phosphoric Acid, tributyl ester	OSHA PEL	5 mg/m <sup>3</sup>

PPE (personal protective equipment) and hygienic measures:

- Wear ANSI approved safety glasses or goggles to protect eyes
- Wear latex or rubber gloves to protect skin
- Wash hands thoroughly before breaks and at end of work day

## 9. PHYSICAL AND CHEMICAL PROPERTIES

General Information:

- Physical state: Liquid
- Color: Clear
- Odor: None
- Odor Threshold: Not applicable

Physical Properties:

- pH value (@70°F): Not Available
- Specific gravity (@70°F): 0.987
- Bulk density: Not Determined
- Boiling point: 365°F/180°C
- Freezing point/Melting point: -112°F/-80°C
- Decomposition temperature: Not available
- Vapor pressure: Not available
- Vapor density: Not available
- Evaporation rate: Not available
- VOC (w/w): 0%
- Solubility in / Miscibility with water: Not Determined
- Partition Coefficient (n-octanol/water): Not available
- Auto ignition: Material is not self-igniting
- Flash point: 329°F/165°C
- Lower/Upper Flammability Limits: Not applicable
- Viscosity: Not available
- Danger of Explosion: Material does not present an explosion hazard

## 10. STABILITY AND REACTIVITY

Material stability: Material is stable under normal conditions

Possibility of hazardous reactions: Hazardous polymerization will not occur

Incompatible materials to avoid: Strong oxidizers, strong acids and strong alkalis

Hazardous decomposition products: Under file conditions - Phosphorus oxides, carbon dioxide and carbon monoxide

## 11. TOXICOLOGICAL INFORMATION

Routes for exposure for solids and liquids are ingestion and inhalation, but may include eye and skin contact.

Acute toxicity: This product has not been tested for toxicity. Toxicity is based on data derived from individual components.

- Dermal: causes skin irritation
- Eyes: may cause mild transit eye irritation
- Inhalation: no data available
- Ingestion: may be harmful if swallowed

Chronic toxicity:

- Repeated dose: data not available
- Genetic: data not available
- Carcinogenicity: suspected of causing cancer
- Reproductive: data not available
- Teratogenicity: data not available

## 12. ECOLOGICAL INFORMATION

The information is based on data available for the material, the components of the material and similar material.

Ecotoxicity: no data available

Biodegradation: expected to be readily biodegradable

Bioaccumulation: not Bioaccumulative

Mobility in soil: no data available

## 13. DISPOSAL CONSIDERATIONS

In its manufactured form this material is not considered a hazardous waste. Dispose of in accordance with local, state and federal regulations.

## 14. TRANSPORT INFORMATION

Material is not regulated for transport.

## 15. REGULATORY INFORMATION

- Sara 302 (extremely hazardous materials): not applicable
- Sara 311/312: Acute and Delayed health hazard
- Sara 313: Not applicable
- TSCA: All components are listed or exempt

## 16. OTHER INFORMATION

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