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## Material Safety Data Sheet

acc. to OSHA and ANSI

### 1 - Identification of substance:

Product Name: CureFAST Cement Additive

**Manufacturer/Supplier:**

**Pipedream Industries trading as CureFAST Cement Additive.**

1789 Maybell Trail, Lawrenceville, GA, 30044, USA

### 2 - Composition/Data on components:

**Chemical characterization:**

**Description: (CAS#)**

Component	%	OSHA/PEL
Carbon Nanotubes	5-10	DHHS(NIOSH) Publication No. 009-125
Proprietary Stabilizer	10-20	Proprietary
Water	70-90	29 CFR 1910.1200

### 3 - Hazards Identification:

#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling  
Wear eye/face protection  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources before application  
Keep container tightly closed  
Ground/bond container and receiving equipment  
Use explosion-proof electrical/ventilating/lighting/equipment  
Use only non-sparking tools  
Take precautionary measures against static discharge  
Keep cool

### **Precautionary Statements - First Aid Response**

IF exposed or concerned: Get medical advice/attention  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention  
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
Inhalation  
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction  
Store locked up  
Store in a well-ventilated place.

## **4 - Fire fighting measures**

Flash Point: 300C before application and drying  
Explosion Limits: Unknown  
Extinguisher Medium: Water, Carbon Dioxide, Dry Chemical, or Foam  
Special Procedures: None  
Decomposition Products: Carbon Monoxide, Carbon Dioxide  
Unusual Hazards: Thermal decomposition or combustion may produce dense smoke.

### **· Suitable extinguishing agents**

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.

- **Special hazards caused by the material, its products of combustion or resulting gases:**

In case of fire, the following can be released:

Carbon monoxide (CO)

- **Protective equipment:**

Wear cloth or surgical masks

## **5 - Accidental release measures**

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation
- **Measures for environmental protection:** Do not allow material to be released to the environment.
- **Measures for cleaning/collecting:** Ensure adequate ventilation.
- **Additional information:**  
See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

## **Handling and storage**

- **Handling:** Use PERSONAL PROTECTIVE EQUIPMENT and exposure controls given in Section 8.

Detailed information on handling carbon nanotubes may be found at the ASTM Standard E 2535 - 07, Standard Guide for Handling Unbound Engineered Nanoscale Particles in Occupational Settings,” ASTM International, West Conshohocken, PA, [www.astm.org](http://www.astm.org).

- **Storage:** Keep in closed container for storage
- **Information for safe handling:**  
Keep container tightly sealed.  
Store in cool, dry place in tightly closed containers.  
Ensure good ventilation at the workplace.
- **Information about protection against explosions and fires:** No Special Requirements
- **Requirements to be met by storerooms and receptacles:**  
No special requirements.

- **Information about storage in one common storage facility:** Store away from oxidizing agents. Store away from halogens.

Do not store together with acids.

- **Further information about storage**  
**Conditions:** Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

## **Physical and chemical properties:**

- **General Information**
- **Form:** Liquid Suspension
- **Color:** N/A
- **Odor:** Odorless
- **Melting point/Melting range:** Estimated 200-250 ° C
- **Ciling point/Boiling range:** Not determined
- **Sublimation temperature / start:** Not determined
- **Flash point: Not applicable**
- **Ignition temperature:** Not determined
- **Decomposition temperature:** Not determined
- **Danger of explosion:** Product does not present an explosion hazard.

### **Explosion limits:**

- **Lower:** Not determined
- **Upper:** Not determined
- **Vapor pressure:** Not determined
- **Density:** at 20°C ~ 1.6 g/cm<sup>3</sup>
- **Solubility in / Miscibility with**
- **Water:** soluble

### **Stability and reactivity**

- **Thermal decomposition / conditions to be avoided:**  
Decomposition will not occur if used and stored according to specifications.
- **Materials to be avoided:**  
Oxidizing agents  
Acids  
Halogens  
Interhalogens
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:** Carbon monoxide and carbon dioxide

### **9 - Toxicological information**

- **Acute toxicity:**
- **Primary irritant effect:**
- **On the skin:** Irritant to skin and mucous membranes.
- **On the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Subacute to chronic toxicity:**

N/A · **Additional toxicological**

**information:**

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

Toxicological information on carbon nanotubes may be found at the website of the International Council on Nanotechnology at <http://icon.rice.edu/>

## **10 - Disposal considerations**

- **Product:** Cement Additive

### **Recommendation**

Consult state, local or national regulations to ensure proper disposal. Specific care should be taken to insure that no carbon nanotubes or carbon nanotube packaging is released into the environment.

- **Uncleaned packagings:**

Consult all state, local or national regulations to ensure proper disposal. Specific care should be taken to insure that no carbon nanotubes or carbon nanotube packaging is released into the environment.

- **Recommendation:**

Disposal must be made according to official regulations. Contact a hazardous materials removal company. Keep all carbon nanotube waste, packaging, and contaminated items segregated from other waste and dispose of with a materials removal company such as Saftey Kleen or others.

## **11 - Regulations**

- **Hazard symbols:** Eye Irritant

- **Safety phrases:**

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

- **National regulations**

All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory.

- **Information about limitation of use:** For use only by technically qualified individuals.

## **12 - Other information:**

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.

**Disclaimer:** CureFast Cement Additive. provides the information contained herein in good faith and makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. CureFast Cement Additive. makes no representations or warranties, either express or implied, regarding the suitability of the material for any purpose or the accuracy of the information contained within this document. Accordingly, CureFast Cement Additive. will not be responsible for damages resulting from use of or reliance upon this information.



CureFast Cement Additive

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