

## SAFETY DATA SHEET

### SECTION 1. Identification of the Substance and Manufacturer

Product: **KDF® 85 Media**

Stock Number: 1192 (KDF 85), 1186 (KDF 85C)

Manufacturer: KDF Fluid Treatment, Inc.  
 1500 KDF Drive  
 Three Rivers, MI 49093 USA  
 +1(269) 273-3300 (Phone) +1(269) 273-4400 (Fax)

24-Hour Emergency: CHEMTREC  
 Domestic North America +1-800-424-9300  
 International +1-703-527-3887 (collect calls accepted):

Local Contact, (if applicable):

### SECTION 2. Hazard Identification

**Classification System:**

The classification is based on the criteria in the UN Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

**GHS Label Elements Warning**



Causes serious eye irritation  
 May cause respiratory irritation

**Prevention:**

Avoid breathing dust  
 Use only outdoors or in a well-ventilated area  
 Wash hands thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Call a POISON CENTER or doctor/physician if you feel unwell  
 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

**Disposal:**

Dispose of contents/container in accordance with local/national/international regulations.

### SECTION 3. Composition/Information of Ingredients

Ingredient	%	EC Number	CAS No.
Copper	83-87	231-159-6	7440-50-8
Zinc	13-17	236-671-3	7440-66-6

### SECTION 4. First Aid Measures

INHALATION: Remove to fresh air. Lay patient down. Cover with blanket.  
 INGESTION: Give 200-300 mL water to drink. DO NOT induce vomiting.  
 SKIN CONTACT: For skin exposure, remove contaminated clothing and wash with soap and water.  
 EYE CONTACT: If irritated, flush eyes and skin with large volumes of fresh water for 15 minutes.  
 MEDICAL NOTES: If any adverse symptoms persist seek immediate medical attention.

### SECTION 5. Fire-Fighting Measures

Extinguishing Media: CO<sub>2</sub>, ABC extinguisher, or water spray.  
 Special Fire Fighting Procedures: Material is non-flammable. Use firefighting measures appropriate to surrounding materials..  
 Personal Protective Equipment: Wear self-contained breathing apparatus



## SECTION 6. Accidental Release Measures

Personal Precautions:	Spilled material may produce dust hazard if not handled correctly. Wear appropriate personal protective equipment: coveralls, gloves & eye protection..
Methods for Clean Up:	Contain spillages and clean up with vacuum or conventional tools and attempt to minimize dusting. Place in a suitable container for recycling or disposal in accordance with local and national waste regulations.
Method of Disposal:	Place in a suitable container for recycling or disposal in accordance with local, state, and/or federal regulations.

## SECTION 7. Handling and Storage

Handling:	Only use in a well-ventilated area and prevent the creation of dusts. If concentrations exceed the occupational exposure limits, use suitable respiratory protection.
Storage:	Store in a cool, dry, well-ventilated place. Keep away from food, drink and animal feeding stuffs. Keep lids of container tightly sealed.

## SECTION 8. Exposure Controls/Personal Protection

Occupational Exposure Standards:	8-hour TWA 1. Copper Powder as dust and mist OSHA PEL: 1 mg/m <sup>3</sup> and ACGIH TLV: 1 mg/m <sup>3</sup> 2. Zinc Powder as dusts OSHA PEL: 10 mg/m <sup>3</sup> 8-hour TWA and ACGIH-TLV: 10 mg/m <sup>3</sup> 8-hour TWA
Occupational Exposure Controls:	All personal protective equipment, including respiratory equipment, used to control exposure to hazardous substances must be selected to meet the requirements of national personal protective equipment regulations.
Ventilation:	To keep below the U.S.A. OSHA and EU exposure limits, use general dilution type ventilation.
Personal Protection Respiratory Protection:	Cartridge type particulate filter respirator or dust-mask conforming to U.S.A. NIOSH. Refer to Respiratory Protective Devices approved by NIOSH under 42 CFR 84 and the appropriate European standard.
 Hand Protection:	Wear if skin contact is probable and skin is sensitive.
 Eye Protection:	Safety glasses or goggles.
Skin Protection:	Long sleeve shirt(s) if contact is probable and skin is sensitive.
Environmental Protection:	Do not allow to enter drains or watercourses.

## SECTION 9. Physical and Chemical Properties

Appearance:	Purplish to Yellow in Color	Odor:	None
	<b>Copper</b>		<b>Zinc</b>
Boiling Point:	2567°C		1665°C
Melting Point:	1083°C		419°C
Specific Gravity:	8.94		7.14
Vapor Pressure:	NA		NA
Vapor Density:	NA		NA
Evaporation Rate:	NA		NA
Solubility in water:	Insoluble		Insoluble
Volatile by Volume, %:	0		0
Molecular Weight:	63.54		65.37

## SECTION 10. Stability and Reactivity

Stable  X  Unstable \_\_\_\_\_

Conditions & Materials to Avoid:

- Temperatures above 100 °C while in the presence of moist air.

Hazardous Decomposition Products:	Metal fumes will be released if heated above the elements melting point
Hazardous Polymerization:	Will Not Occur

### **SECTION 11. Toxicological Information**

#### Signs, symptoms, and effect of over exposure:

Eyes: Redness, tearing, itching, burning and conjunctivitis  
Ingestion: Irritation and burning sensations of mouth and throat, nausea, abdominal pain with possible diarrhea.  
Inhalation: Irritation of the mucous membranes, coughing, wheezing, shortness of breath. Prolonged exposure may cause metallic taste.

#### Acute Health Effects:

This product is not listed by NTP, IARC or regulated as a carcinogen by OSHA.

### **SECTION 12. Ecological Information**

None Established

### **SECTION 13. Disposal Considerations**

PACKAGING: Dispose of in accordance with procedures applying to the disposal of the product.  
PRODUCT: Dispose of surplus and contaminated materials (including sawdust) at an approved landfill or in accordance with other national or regional provisions.

### **SECTION 14. Transportation Information**

US DOT: Not a hazardous material for transportation.

DOT regulations:

Hazardous Class: None

Land transport ADR/RID (cross-border)

Hazardous Class: None

Maritime transport: IMDG:

Hazardous Class: None

Marine Pollutant: No

### **SECTION 15. Regulatory Information**

U.S. EPA EPCRA Section 313 Reportable Product – (contains copper)

U.S. EPA Reportable Quantity: 5,000 lbs. (2,270 kg)

TSCA Inventory Status<sup>9</sup> (40 CFR 710) All formulation components are listed in the TSCA Inventory.

California Proposition 65: This product contains no chemicals which the State of California has found to cause Cancer, birth defects or other reproductive harm.

### **SECTION 16. Other Information**

Keep out of reach of children. Read and follow all label instructions. This information is based on our present knowledge. However, this is not a guarantee of specific product features. It is the user's responsibility to satisfy themselves as to the suitability and completeness of this information for their own particular use.