



**SP 17-97A**

**COAST GUARD SPECIAL PERMIT 17-97A**

This Special Permit is issued pursuant to 46 CFR 148.01-9 of the U.S. Coast Guard (USCG) Carriage of Solid Hazardous Materials in Bulk Regulations to authorize the transport of hot briquetted iron (HBI) in bulk in open, unmanned barges under conditions as described herein. This permit does not relieve any shipper or carrier from compliance with any applicable requirement of 46 CFR 148 of the USCG Regulations, except as specifically provided for herein.

1. **BASIS** – Cleveland~Cliffs Incorporated letter of March 21, 2001.
2. **COMMODITY** - Hot Briquetted Iron (HBI).
3. **PROPER SHIPPING NAME** - DIRECT REDUCED IRON (DRI); briquettes, hot molded.
4. **REGULATION WAIVED OR AFFECTED** - 46 CFR 148.01-7.
5. **AUTHORIZED HOLDER** – Cleveland~Cliffs Incorporated, 1100 Superior Avenue, Cleveland, Ohio 44114-2589. The following companies have been **Designated** a party to this permit: Cliffs and Associates, Ltd. (CAL); CALipso Sales Company.
6. **MODE OF TRANSPORTATION AUTHORIZED** - Unmanned open barges.
7. **CLASSIFICATION** - IMO: Material Hazardous Only in Bulk.
8. **PROPERTIES** -
  - (a) HBI is a material emanating from a densification process whereby the Direct Reduced Iron feed material is at a temperature greater than 650°C (1202°F) at the time of molding and has a density greater than 5.0 g/cm<sup>3</sup>. The approximate maximum dimensions of HBI briquettes are 130mm by 100mm by 50mm with up to 5% fines (under 4mm).
  - (b) HBI may slowly evolve hydrogen after contact with water. Temporary self-heating may be expected after material handling in bulk.
9. **SPECIAL TRANSPORTATION REQUIREMENTS** -
  - (a) HBI may be transported in open barges only on the inland rivers of the United States.

- (b) The HBI must be loaded and unloaded at a designated waterfront facility that meets the requirements of 33 CFR 126.05(a) or a midstream anchorage acceptable to the cognizant Coast Guard Captain of the Port.
- (c) The cognizant Coast Guard Captain of the Port must be informed at least 24 hours in advance of loading operations.
- (d) The loading operations must be supervised by a person familiar with the safety precautions and emergency procedures associated with handling HBI. The loading operators must be trained in the appropriate safety precautions and emergency procedures for handling HBI.
- (e) The shipper shall provide the person in charge of the tug or towing vessel with information on the safety precautions and emergency procedures associated with the shipment of HBI.
- (f) HBI may not be loaded if its temperature is 65°C (150°F) or higher.
- (g) HBI shall be loaded in such a manner as to avoid a concentration of fines in localized areas in the cargo.
- (h) Before loading the HBI, the cargo compartment of the barge shall be as dry as reasonably practicable, and free of residues of previous cargoes, loose dunnage, debris and combustible material of any kind.
- (i) Precautions must be taken to prevent the penetration of hydrogen gas into adjacent cargo compartments, voids, bilges, and wells, and behind ceiling boards.
- (j) No smoking, burning, cutting, chipping or other sources of ignition shall be allowed on or near open barges containing HBI.
- (k) After unloading, the barge shall be cleaned thoroughly before loading a different cargo.
- (l) Each bill of lading, shipping order, or other shipping paper issued in connection with HBI under the terms herein, must bear the notation **"USCG Special Permit 17-97A."**
- (m) When HBI is transported by unmanned barge, a copy of this permit must be on board the tug or towing vessel. When the barge is moored, the shipping paper and a copy of this Special Permit must remain on the barge.

10. **REPORTING REQUIREMENTS** - Any incident or casualty occurring while shipping under the terms of this permit shall be reported in accordance with 49 CFR 171.15, and a copy of the written report forwarded to the Commandant (G-MSO-3), U.S. Coast Guard, 2100 Second Street, S.W., Washington, DC 20593-0001 at the earliest practicable moment. In addition, a record of experience under the terms of this special permit including any casualties or difficulties encountered must be sent to the Commandant (G-MSO-3) upon request for renewal.
  
11. **EXPIRATION DATE** – June 30, 2005.

Authorized by:

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E. P. PFERSICH  
Acting Chief, Hazardous Materials Standards Division  
By direction of the Commandant

June 28, 2001  
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DATE