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## Shipping of Hazardous Material (HazMat) and Engine/Components Containing Hazardous Material

### Situation

A number of United States regulations exist regarding the shipment of hazardous materials. These regulations apply to import and export shipments as well as shipments within the United States. There are also training requirements for personnel that deal with the shipment of hazardous material. This bulletin briefly explains some of these regulations and how to obtain additional training and information. This bulletin also highlights the importance of proper packaging/shipping of hazardous materials or engines/components containing hazardous materials (gasoline, crankcase oil, gearcase oil, and hydraulic fluid, etc.).

**IMPORTANT:** This bulletin does not provide a complete review of all the provisions to all applicable regulations.

### Overview of Regulations

The Hazardous Materials Regulations (HMR) specify requirements for the safe transportation of hazardous materials in commerce by rail car, aircraft, vessel, and motor vehicle. In general, the HMR prescribe requirements for classification, packaging, hazard communication, incident reporting, handling, and transportation of hazardous materials. The HMR are enforced by Pipeline Hazardous Material Safety Administration (PHMSA), Department of Transportation (DOT), Federal Aviation Administration (FAA), Federal Highway Administration (FHWA), Federal Railroad Administration (FRA), and the United States Coast Guard (USCG).

### Overview of Training Requirements

Current U.S. Department of Transportation (DOT) regulations require initial and recurrent training for all employees who perform work functions covered by the Hazardous Materials Regulations (employees who work in shipping, receiving, or material handling areas, or who prepare or transport hazardous materials). The DOT training program does not include a test of any type and contains other irrelevant material. However, ShipMate, Inc. offers an interactive training program that satisfies the DOT requirement for General Awareness, General Safety, and HazMat Security training. ShipMate, Inc. also offers a comprehensive exam and Certificates of Completion upon successful completion of the program.

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CD-ROM and web-based training materials may be purchased from ShipMate, Inc. for \$50.00, which includes an electronic version of the 49 CFR Hazardous Materials Regulations, the current Emergency Response Guidebook, and full access to ShipMate's technical staff to assist you in properly preparing hazardous materials for transport.

For ShipMate, Inc.'s contact information, refer to the **Additional Information** section below.

**NOTE:** *Unlike the ShipMate Inc. training program, the DOT training program does not include the 49 CFR (\$34.00), the Emergency Response Guidebook (\$5.00), tests, certificates, or technical support.*

## Shipping of Complete Engines and Major Assemblies

### AIR TRANSPORTATION

Complete Electronic Fuel Injection (EFI) and Direct Fuel Injection (DFI) engines can no longer be transported by air or sea without being prepared as follows:

- Drain all fuels, oils, and hydraulic fluids from all major assemblies, such as dressed powerheads, gearcases, trim systems, or other components containing fluids.
- Seal all disconnected pipes that previously contained fluid with positively-retained, leak-proof caps.

**NOTE:** *Only carbureted engines that have been stalled and completely run dry for lack of fuel are allowed to be shipped by way of air transportation.*

### GROUND TRANSPORTATION

Engines and components shipped by ground transport can continue to use the current procedure.

### Additional Information

More information on hazardous material, regulations, packaging, training, etc. can be found by accessing the ShipMate website: <http://www.shipmate.com>, or calling/writing to:

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