

HAZARDOUS MATERIALS TRANSPORTATION

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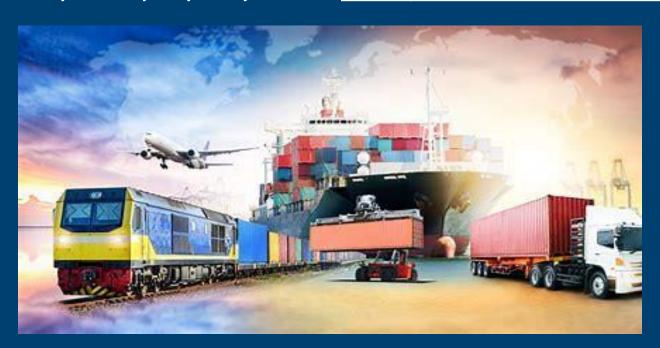
What is a hazardous material?





Title 49 of the US Code of Federal Regulations, section 171.8 defines a *hazardous material* as:

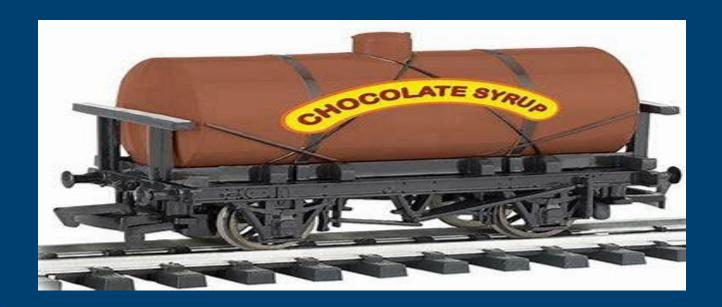
"a substance or material that the Secretary of Transportation has determined is capable of posing an unreasonable risk to health, safety, and property when <u>transported in commerce</u>....."





Title 49 of the US Code of Federal Regulations, section 171.8 defines a *hazardous material* as:

".....the term includes hazardous substances, hazardous wastes, marine pollutants, elevated temperature materials, and materials meeting the defining criteria for hazard classes in part 173."





A hazardous waste is any material subject to the Hazardous Waste Manifest requirements of 40 CFR part 262.

And by default (definition on previous slide) is regulated in transportation as a hazardous material. (49 CFR 171.8).





What are we looking for during a roadside hazardous materials inspection?





First is safety, the officer will do a walk around to make sure it is safe to conduct an inspection.





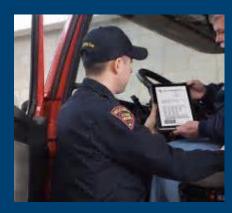
One of the first things we will ask for is your hazmat shipping papers.

Do you have them? Where are they kept?

177.817(e) says:

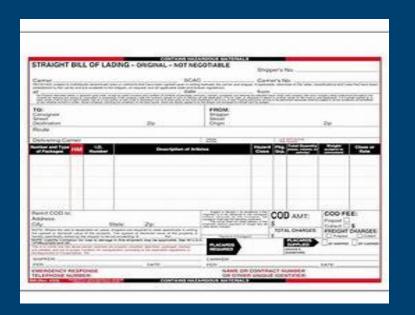
Readily visible to any person entering the cab AND within reach of driver while wearing a seatbelt.

OR – in a holder mounted to the inside of the driver's door.



*For hazardous waste, your DEQ manifest (Form 8700-22) can be your shipping paper. 49 CFR 172.205(h).





We will ask for your Emergency Response Information.

Do you have it? Where is it at? This is something other than a telephone number on the shipping papers.

172.602(a)&(b) says:

Printed and legible in English & specific for the material.

Available for use away from the hazardous materials.

Provides information to help mitigate:

Immediate hazards to health

Risks of fire or explosion

Immediate actions to be taken in an accident

Immediate methods for handling a fire

Immediate methods for handling a spill

Preliminary first aid measures





AND – maintained in the same manner as the shipping paper.

Next, we will ask for certain credentials.

Is a hazardous materials registration required? Is it valid?

Is the material being shipped under a *special permit*?

Is the driver properly licensed?







The officer will use the shipping papers to look up each hazardous material carried on the truck.

The regulations will specify requirements for each material. **SOME** of those requirements include:

Are placards required?

Are there marking or labeling requirements?

Does the product have to be in a specific type of package?

Does the packaging require periodic testing?

If more than one product – any special loading requirements?





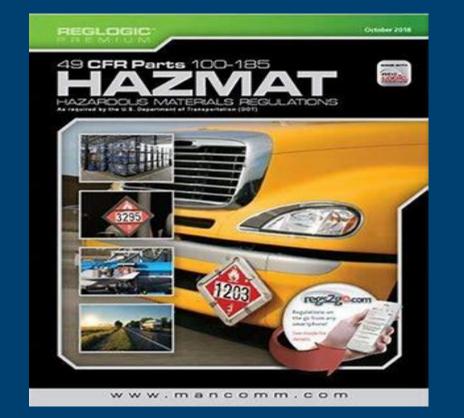


49 CFR Parts 100-185.

The book of exceptions!

Some materials must comply with the entire book while others may be excepted from parts of the book if certain conditions

are met.



And then there are some materials that can get completely out of the regulations!



Once we determine which regulations apply, we will inspect the vehicle <u>and load</u> to verify compliance.

Correct placards?
Labels & markings?
Proper load securement?
Are the packages authorized?
Any leaks?
Can these materials be shipped in the same vehicle?





The top ten hazmat violations of 2023 nationwide



As we look at each of these, think about preventative measures. Everything in the top ten was 100% preventable.



#10 Hazmat violation nationwide in 2023 NO EMERGENCY RESPONSE INFORMATION



The shipper failed to provide it, and no one asked for it or had their own.



No ER Info or accessibility – violation of 49 CFR 172.602(c)(1).

NOT PLACARDED AS REQUIRED



The truck – no placards



The load

Shipping papers indicate:

20 Drums, UN2929 Toxic liquids, flammable, n.o.s. (methelthlybadstuff), I, 6.1,(3) 8,800 lbs.

Someone knows what's on the truck – does the driver? Did anyone check?



Vehicle not placarded as required – violation & OUT OF SERVICE! (49 CFR 177.823).

#8 Hazmat violation nationwide in 2023 MAINTENANCE OF EMERGENCY RESPONSE INFORMATION



Remember – this is kept in the vehicle in the same manner as the shipping paper.



No ER Info or accessibility – violation of 49 CFR 172.602(c)(1).

PROHIBITED PLACARDING

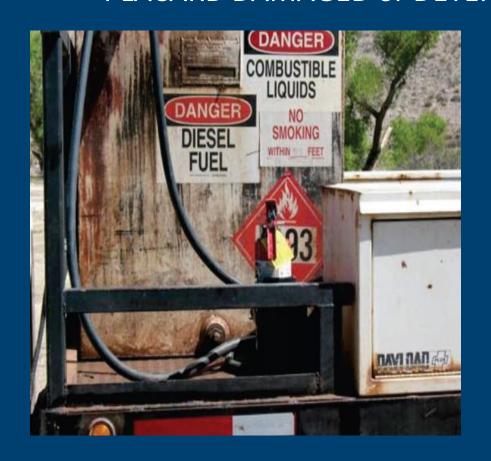


After you unloaded and your trailer is empty – did you forget something?



Prohibited placarding – violation and OUT OF SERVICE! 49 CFR 172.502(a)(1)

#6 Hazmat violation nationwide in 2023 PLACARD DAMAGED or DETERIORATED or OBSCURED







Once again – did you look at it before you left? May have been an easy fix.

Damaged, obscured, etc.. – violation of 49 CFR 172.516

MISSING PLACARDS and or UN ID NUMBERS





Must be affixed to the vehicle and remain affixed while the vehicle is in transportation. Things to consider – will tape stick to a wet trailer? If an ID number is missing, should I get another one or try to draw it?



50% or more missing – violation and OUT OF SERVICE! (49 CFR 177.823). ANY that misrepresent actual materials - violation and OUT OF SERVICE! (49 CFR 177.823).

#4 Hazmat violation nationwide in 2023 NO SHIPPING PAPER



Should check before you leave. Hazmat requires a printed document. Did they give you one? Did you ask for one?



No shipping paper – violation and OUT OF SERVICE! (49 CFR 177.817(a)).

#3 Hazmat violation nationwide in 2023 SHIPPING PAPER ACCESSIBILITY



Remember from earlier – do you have one, where is it?



NO OR EXPIRED HAZMAT REGISTRATION

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION
PIPELINE AND HAZARDOUS MATERIALS SAFETY ADMINISTRATION



HAZARDOUS MATERIALS CERTIFICATE OF REGISTRATION FOR REGISTRATION YEAR(S) 2013-2016

Registrant:



This certifies that the registrant is registered with the U.S. Department of Transportation as required by 49 CFR Part 107, Subpart G.

This certificate is issued under the authority of 49 U.S.C. 5108. It is unlawful to alter or falsify this document.

Reg. No: 052813 008 004VX

HM Company ID: 001057

Issued: 05/29/2013

Expires: 06/30/2016

Might be a good idea to check this before you leave! Is it still valid? Hint – they always expire on June 30th.

No HM Registration – violation of (49 CFR 107.601 & 107.620).



LOAD SECUREMENT



Can be commodity specific Gravity does not qualify as proper load securement!



LOAD SECUREMENT



Could affect vehicle stability

May present a hazard to a person unloading the vehicle



This is not how your customer wants to receive their packages.





This is not the image your employer wants of their business.



No or improper load securement – violation and OUT OF SERVICE! (49 CFR 173.24).





Some honorable mentions that did not make the top ten list:

UNDECLARED HAZMAT SHIPMENT





Some carriers will hide the hazmat, fail to placard, and not show the inspecting officer any bills of lading with hazardous materials listed.



Some honorable mentions that did not make the top ten list:

LEAKING OR DAMAGED PACKAGES, RESIDUE ON OUTSIDE OF PACKAGE







Violation and OUT OF SERVICE! (49 CFR 173.24).

And the big one – SMOKING!

Smoking – Per 397.13, no person may smoke or carry a lighted cigar, cigarette, or pipe ON or WITHIN 25 feet of......

A motor vehicle which contains:

Class 1 (Explosives)

Class 5 (Oxidizers)

Flammable materials in Division 2.1, Class 3, and Divisions 4.1 and 4.2



Recent interpretations from PHMSA apply this same standard to e-cigarettes and vape devices.

Violation of 49 CFR 397.13

















Any violations discovered will be documented on an inspection report.

The officer should explain the report and the violations to the driver.

The driver must give the inspection report to the carrier to ensure corrective action is taken before the vehicle is re-dispatched.







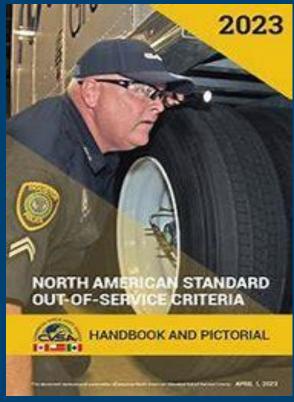
Some violations will cause the vehicle to be placed "Out of Service".



This means the vehicle may not move until corrective action has been taken.

The officer has no discretion, this is the law. (MCL 480.17b).

"Out of Service" defects can be found in the Out of Service Criteria published annually by the Commercial Vehicle Safety Alliance (CVSA).





Are the drivers doing pre-trip inspections?

Do they know how? Do they know their equipment?





Do you have an **effective** maintenance program?





Are your hazmat employees properly trained?





One last thing – if this happens, what is <u>YOUR</u> plan?





How about when this happens?





Some resources for regulations, training, and compliance measures.



The Michigan Center for Truck Safety www.truckingsafety.org



Commercial Vehicle Safety Alliance www.cvsa.org



Pipeline and Hazardous

Materials Safety Administration
www.phmsa.dot.gov





Electronic Code of Federal Regulations www.ecfr.gov The official US Government Website for CFR's. Transportation regulations are in Title 49





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