

Special Segments Training

Hazardous Material

HAZMAT

What is it? What is our policy?

HAZMAT = Hazardous Material

It is any material capable of posing an unreasonable risk to the health and safety of the passengers or aircraft.

Cape Air will not transport:

- Anything listed in CFR 49 as HAZMAT
- Anything bearing HAZMAT labeling
- Anything suspected of being HAZMAT

What is the PIC's role?



The PIC will provide support for ground personnel in the identification and prevention of HAZMAT or dangerous goods.

The PIC is the last line of defense and is ultimately responsible for preventing the transport of HAZMAT or dangerous goods.

How do I know if a material
or item is hazardous or is
considered dangerous?

Look for HAZMAT Labels

Chapter 15, Page 2 of the GOM shows pictures of HAZMAT labels



01 Nov 04 Chapter 15
Page 2 General Operating Manual Weapons And Hazmat

Subpart C: Dangerous Goods Labels

Hazardous Materials Module 5

HAZARDOUS MATERIALS WARNING LABELS

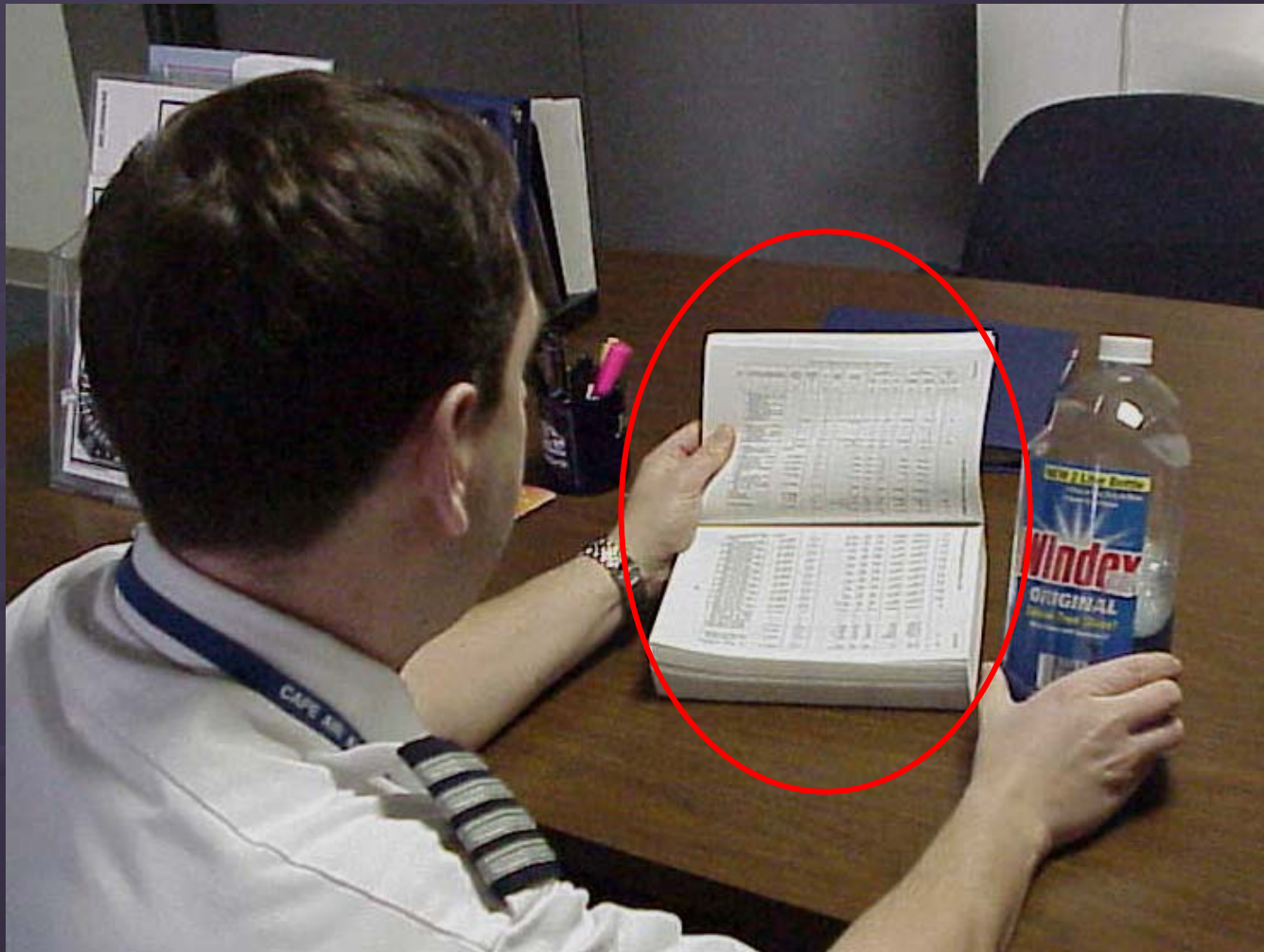
CLASS 1	CLASS 1	CLASS 1	CLASS 1	CLASS 2	CLASS 2	CLASS 2
Explosive 1.1, 1.2, 1.3	Explosive 1.4	Explosive 1.5	Explosive 1.6	Flammable gas 2.1	Non-flammable gas 2.2	Toxic gas 2.3
[Label]	[Label]	[Label]	[Label]	[Label]	[Label]	[Label]
Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.
CLASS 3	CLASS 4	CLASS 4	CLASS 4	CLASS 4	CLASS 5	CLASS 5
Infectious 3.1	Flammable liquid 4.1	Flammable solid 4.2	Flammable gas 4.3	Flammable solid 4.4	Toxic liquid 5.1	Toxic solid 5.2
[Label]	[Label]	[Label]	[Label]	[Label]	[Label]	[Label]
Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.
CLASS 6	CLASS 6	CLASS 6	CLASS 6	CLASS 6	CLASS 7	CLASS 7
Infectious 6.1	Corrosive liquid 6.2	Corrosive solid 6.3	Corrosive liquid 6.4	Corrosive solid 6.5	Radioactive 7.1	Radioactive 7.2
[Label]	[Label]	[Label]	[Label]	[Label]	[Label]	[Label]
Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.
CLASS 8	CLASS 8	CLASS 8	CLASS 8	CLASS 8	CLASS 9	CLASS 9
Corrosive liquid 8.1	Corrosive solid 8.2	Corrosive liquid 8.3	Corrosive solid 8.4	Corrosive liquid 8.5	Other dangerous substances 9.1	Other dangerous substances 9.2
[Label]	[Label]	[Label]	[Label]	[Label]	[Label]	[Label]
Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.
CLASS 10	CLASS 10	CLASS 10	CLASS 10	CLASS 10	CLASS 10	CLASS 10
Other dangerous substances 10.1	Other dangerous substances 10.2	Other dangerous substances 10.3	Other dangerous substances 10.4	Other dangerous substances 10.5	Other dangerous substances 10.6	Other dangerous substances 10.7
[Label]	[Label]	[Label]	[Label]	[Label]	[Label]	[Label]
Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.	Hazardous materials division handles and transports these items.

HAZARDOUS MATERIALS MARKINGS

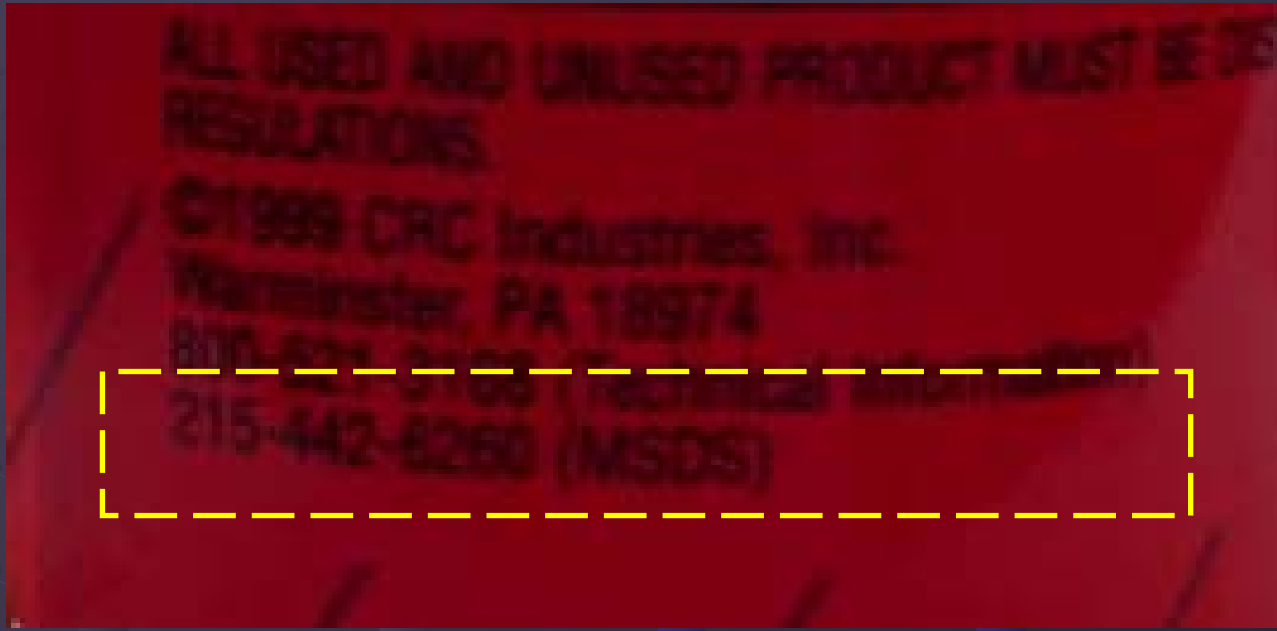
HAZARDOUS MATERIALS MARKINGS	HAZARDOUS MATERIALS MARKINGS	HAZARDOUS MATERIALS MARKINGS	HAZARDOUS MATERIALS MARKINGS
[Marking]	[Marking]	[Marking]	[Marking]
[Marking]	[Marking]	[Marking]	[Marking]
[Marking]	[Marking]	[Marking]	[Marking]

HYANNIS AIR SERVICE, INC.

Check CFR 49, Section 172.101 (HAZMAT Table)



Call for a *Material Safety Data Sheet* (MSDS)




An MSDS will provide you with the proper shipping name and should provide you with helpful information such as flammability and other HAZMAT ratings.

The MSDS is especially useful when an *ingredient* of the material qualifies as HAZMAT but the totality of the material may not.

An example of an MSDS

June 30, 1993



Material Safety Data Sheet

USA and WORLDWIDE

X/C® AVIATION MULTIVISCOSITY OIL (ALL GRADES)

PHILLIPS 66 COMPANY
A Division of Phillips Petroleum Company
Bartlesville, Oklahoma 74004

PHONE NUMBERS
Emergency: (918) 661-8118
General MSDS Information: (918) 661-8327
For Additional MSDSs: (918) 661-5952

A. Product Identification

Synonyms: SAE grade 20W-50, 25W-60, Aviation motor oil
Chemical Name: Mixture
Chemical Family: Hydrocarbon
Chemical Formula: Mixture
CAS Reg. No.: Mixture
Product No.: 48250, 48260, 48310, 48320, 48810, 48820, 48830

Product and/or Components Entered on EPA's TSCA Inventory: YES

This product is in U.S. commerce, and is listed in the Toxic Substances Control Act (TSCA) Inventory of Chemicals; hence, it may be subject to applicable TSCA provisions and restrictions.

B. Components

Ingredients	CAS Number	% By Wt.	OSHA PEL	ACGIH TLV
This product does not meet the definition of a hazardous material given in 29 CFR Part 1910.1200(OSHA). Information on this form is furnished as a customer service.				

NA - Not Applicable NE - Not Established

X/C® Aviation Multiviscosity Oil (All Grades) (US027440)

H. Fire and Explosion Data

Flash Point (Method Used): >428F (>220C)(COC, ASTM D92)
Flammable Limits (% by Volume in Air): LEL - Not Established
UEL - Not Established

Fire Extinguishing Media: Dry chemical, foam or carbon dioxide (CO2)

Special Fire Fighting Procedures: Evacuate area of all unnecessary personnel. Shut off source, if possible. Use NIOSH/MSHA approved self-contained breathing apparatus and other protective equipment and/or garments described in Section C if conditions warrant. Water fog or spray may be used to cool exposed containers and equipment.

I. Spill, Leak and Disposal Procedures

Precautions Required if Material is Released or Spilled:
Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Shut off source, if possible and contain spill. Keep out of water sources and sewers. Absorb in dry, inert material. Transfer to disposal drums.

Waste Disposal (Insure Conformity with all Applicable Disposal Regulations):
Incinerate or otherwise manage at a permitted waste management facility.

J. DOT Transportation

Shipping Name:	Not Regulated
Hazard Class:	Not Regulated
ID Number:	Not Regulated
Packing Group:	Not Regulated
Marking:	Not Regulated
Label:	Not Regulated
Placard:	Not Regulated
Hazardous Substance/RQ:	Not Regulated
Shipping Description:	Not Regulated
Packaging References:	Not Regulated

K. RCRA Classification - Unadulterated Product as a Waste

Prior to disposal, consult your Environmental contact to determine if TCLP (Toxicity Characteristic Leaching Procedure, EPA Test Method 1311) is required. Reference 40 CFR Part 261.

L. Protection Required for Work on Contaminated Equipment

Contact immediate supervisor for specific instructions before work is initiated. Wear protective equipment and/or garments described in Section C if exposure conditions warrant.

X/C® Aviation Multiviscosity Oil (All Grades) (US027440)

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MSDS Example (Cont.)

M. Hazard Classification

— This product meets the following hazard definition(s) as defined by the Occupational Safety and Health Hazard Communication Standard (29 CFR Section 1910.1200):

— Combustible Liquid	— Flammable Aerosol	— Oxidizer
— Compressed Gas	— Explosive	— Pyrophoric
— Flammable Gas	— Health Hazard (Section F)	— Unstable
— Flammable Liquid	— Organic Peroxide	— Water Reactive
— Flammable Solid		

☒ Based on information presently available, this product does not meet any of the hazard definitions of 29 CFR Section 1910.1200.

N. Additional Comments

SARA 313

As of the preparation date, this product did not contain a chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

P. Components

Ingredients CAS Number

This product does not meet the definition of a chemical in 29 CFR Part 1910.1200 (OSHA). Information on a chemical is not provided.

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Flammability

If an MSDS lists the flash point of a liquid as 120°F, do not accept it. It is a flammable material.

HAZMAT Classes

See Chapter 10, Subpart F of FOM

- Class 1 - Explosives
- Class 2 - Gases
- Class 3 - Flammable/Combustible Liquids
- Class 4 - Flammable Solids (including Dangerous-When-Wet materials)
- Class 5 - Oxidizers and Organic Peroxides
- Class 6 - Toxic Materials and Infectious Substances
- Class 7 - Radioactive Materials
- Class 8 - Corrosive Materials
- Class 9 - Miscellaneous (includes ORM-D, a consumer commodity that could cause annoyance or discomfort to crew or passengers)

Oxidizers and Organic Peroxides

Organic Peroxides are hazardous because they readily provide oxygen and therefore contribute to combustion.

Hydrogen Peroxide is an example of an oxidizer.

Common Exceptions

(Reference: FOM Chapter 10, Subpart D and CFR 49, Part 175.10)

Personal Consumer Commodities



- Each container may not exceed 16 fluid ounces
- Total quantity per person is 70 fluid ounces



- The items pictured to the left would be ok in someone's luggage; however, a box of twelve 6-oz. bottles of aftershave would not (total > 70 oz.)

Gasoline-powered Tools



- Gas-powered tools are allowed if:
 - They are in their original packaging (it's OK if previously opened).
 - They have never contained any gas.....ever.

Paint



- Latex-based paints are OK.
- Oil-based paints are classified as Flammable Liquids and are HAZMAT! Do not accept oil-based paints or stains.

Scuba Tanks



- Full scuba tanks are considered Non-Flammable Compressed Gas, a HAZMAT class division.
- Reduce the pressure in the tank to under 40 PSI, and it is no longer considered compressed. Therefore, it is no longer HAZMAT.

Medical Oxygen? NO!



- Per our GOM, we are *NEVER* allowed to take medical oxygen!
- Do not confuse compressed air (i.e. scuba tanks) with oxygen containers!

Electric Wheelchair



- Electric wheelchairs are OK, provided the battery terminals are disconnected and the battery is stored upright in a non-spillable battery box.
- If the wheelchair battery is kept in a non-spillable box on the wheelchair itself, make sure the wheelchair is stored upright.

Alcoholic Beverages



- Alcohol must not exceed 70% by volume (140 proof)
- Containers must not be larger than 5 liters



- Alcoholic beverages with less than 24% alcohol by volume are not subject to quantity limitations.

Butane Curling Irons



- No more than one pair per person
- Safety cover must be secured over the heating element to act as a positive gas shutoff switch
- The device *cannot* be used in flight

Ammunition



- Allowed as checked baggage only.
- Must be kept separate from firearm(s).
- Limit = 11 lbs. per passenger
- Must be stored in a wood, metal, or fiberboard (cardboard) box.

Dry Ice



- Must be properly labeled and stored in a *breathable* container (not airtight)
- Limited to 4.4 lbs per passenger as baggage

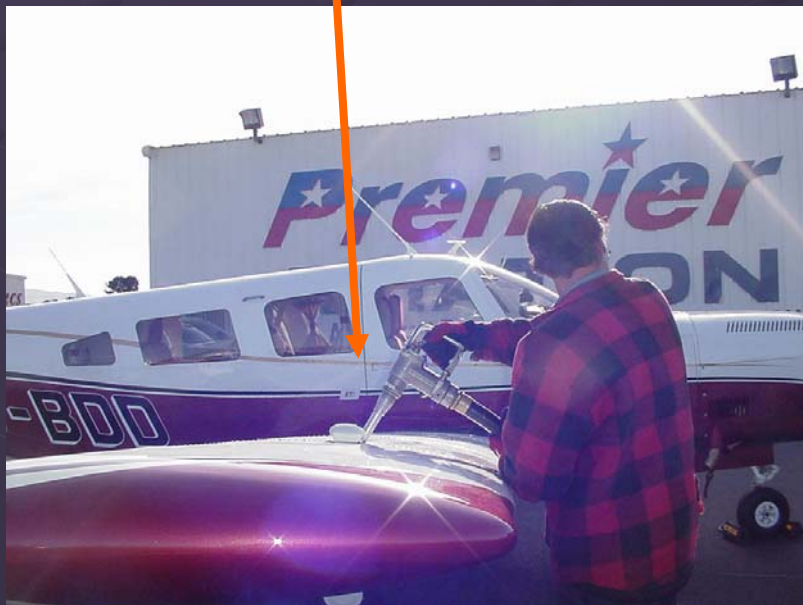




What about stuff for
the airplane?

Items required for airworthiness are NOT considered HAZMAT

Examples: Fuel



Fire Extinguisher



Replacement & “Day to Day” items

Replacement Airworthiness Items are not exempt from HAZMAT status.

Items used in the day to day operation of the airline are not exempt from HAZMAT status.

Aerosol Windshield Cleaner



However, a replacement aircraft battery may be shipped on our aircraft, provided it is fully enclosed in a fiberboard box or 5-sided slip cover.

When in doubt, don't accept it!

