

Tool Talk Safety Meeting

September 26, 2023

Hazard Communication & Bill of Lading

Communication for transporting hazardous materials has four basic elements: a Bill of Lading, Marking, Labeling and Placarding. Also, the driver of a Plural Component Striper should know the individual tank capacity, the max load when full, and if the weight of hazardous materials (HM) transported is greater than 1,001 lbs. where placarding is required and the driver is required to have the hazardous material endorsement.

- 1. **Bill of Lading**—The loader and driver must make sure that each truck has an accurate bill of lading for each day and that any hazardous materials are accurately listed on the BOL. A sample BOL is attached.
- 2. **Marking**—Basic package marking requirements have the material description, ID number, instructions, UN marks or other descriptions of the hazardous materials contained in the package.
- 3. Labeling— Containers holding hazardous materials must be labeled properly and identify the specific hazards posed by the hazardous materials.
- 4. **Placarding**—Placards are required when transporting hazardous materials weighing 1,001 lbs. or more.

NOTE: <u>Class 2 Gasses</u>; <u>Class 3 Flammables</u> and <u>Class 8 Corrosive</u> are the most common types of Hazardous Materials transported by PK.



DOT CHART 15

Attached on the following pages for reference is the USDOT Chart 15 - Hazardous Materials Markings, Labeling and Placarding Guide. The attached guide provides guidance on Haz-Mat Container Labeling and required placarding when transporting 1,001 lbs. or more Hazardous materials.



Pipeline and Hazardous Materials Safety Administration

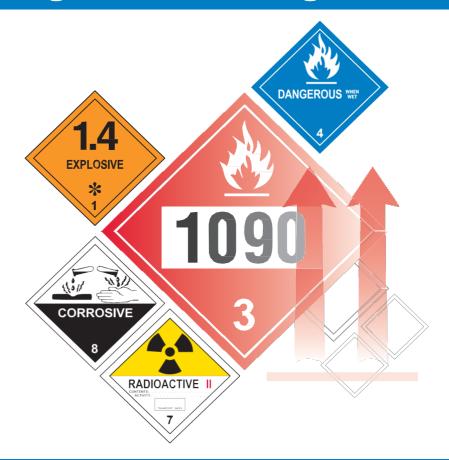
DOT CHART 15 Hazardous Materials Markings, Labeling and Placarding Guide

Referto 49 CFR, Part 172:

Marking - Subpart D

Labeling - Subpart E

Placarding - Subpart F



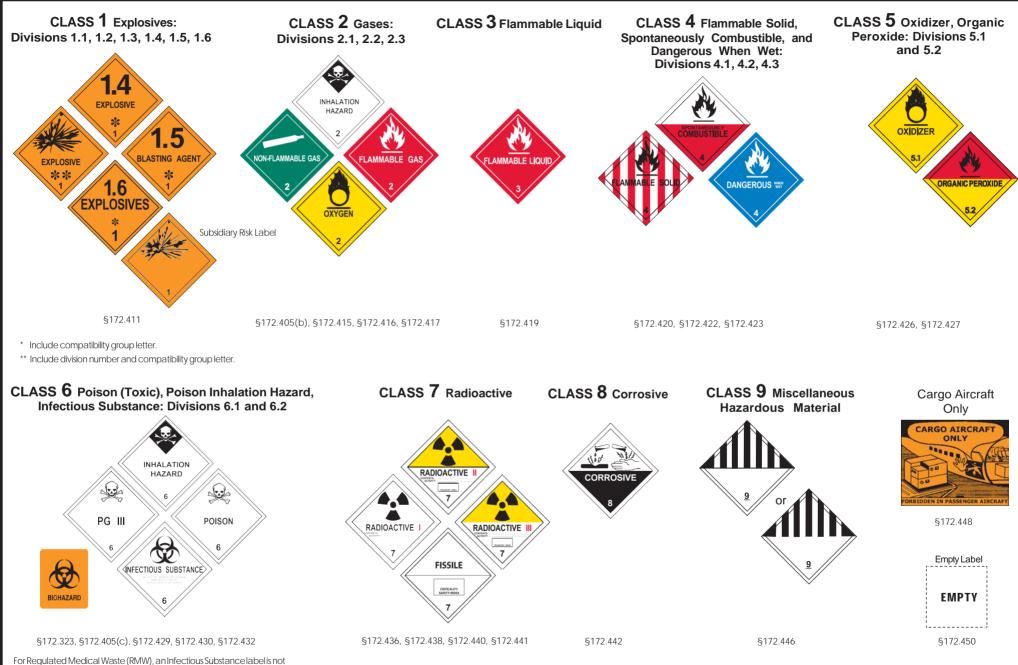
NOTE: This document is for general guidance only and should not be used to determine compliance with 49 CFR, Parts 100-185.



* The new limited quantity marking designates hazardous material packages prepared for air transport (Y) and packages <u>not</u> prepared for air transport (all other modes). The ORM-D classification and the use of packagings marked "Consumer commodity, ORM-D" is authorized until December 31, 2020, for domestic highway, rail, and vessel transportation. Transitional exception—Square-on-point with Identification Number: except for transportation by aircraft and until December 31, 2014, a package containing a limited quantity may be marked with identification number, preceded by the letters "UN" or "NA".

Hazardous Materials Warning Labels

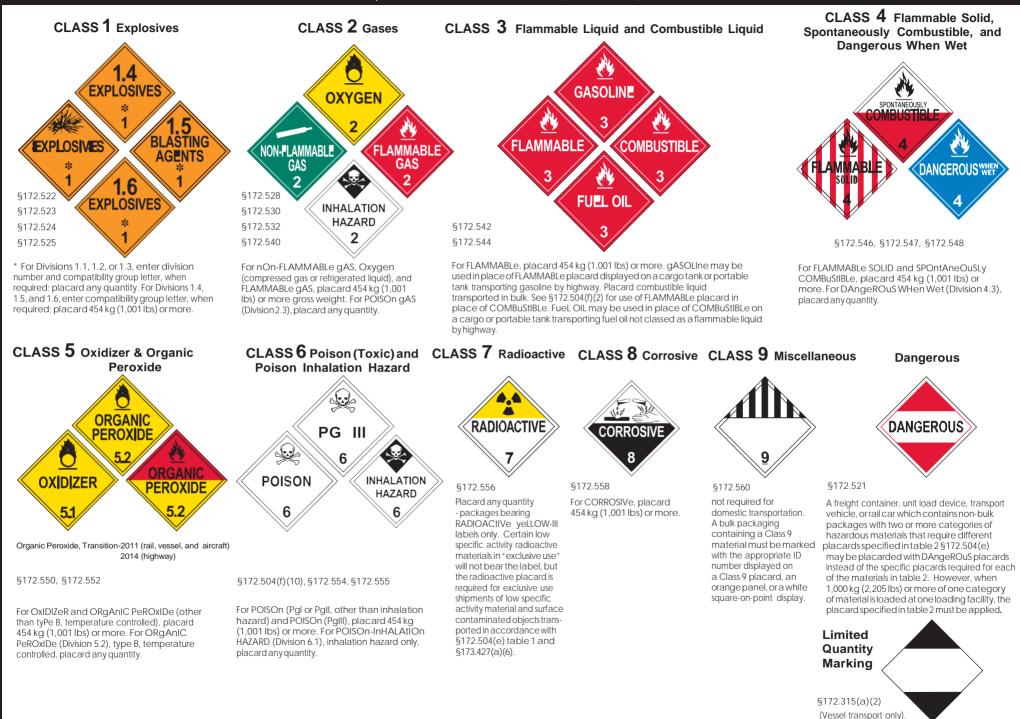
Actuallabelsize: at least 100 mm (3.9 inches) on all sides



For Regulated Medical Waste (RMW), an Infectious Substance label is not required on an outer packaging if the OSHA Biohazard marking is used as prescribed in 29 CFR 1910.1030(g). A bulk package of RMW must display a BIOHAZRD marking.

Hazardous Materials Warning Placards

Actual placard size: at least 250 mm (9.84 inches) on all sides



General Guidelines on Use of Warning Labels and Placards LABELS PLACARDS

See 49 CFR, Part 172, Subpart E, for complete labeling regulations.

- The Hazardous Materials Table [§172.101, Col. 6] identifies the proper label(s) for the hazardous material listed.
- Any person who offers a hazardous material for transportation MUST label the package, if required [§172.400(a)].
- Labels may be affixed to packages when not required by regulations, provided each label represents a hazard of the material contained in the package [§172.401].
- For labeling mixed or consolidated packages, see §172.404.
- The appropriate hazard class or division number must be displayed in the lower corner of a primary and subsidiary hazard label [§172.402(b)].
- For classes 1,2,3,4,5,6, and 8, text indicating a hazard (e.g., "CORROSIVE") is NOT required on a primary or subsidiary label. The label must otherwise conform to Subpart E of Part 172 [§172.405].
- Labels must be printed on or affixed to the surface of the package near the proper shipping name marking [§172.406(a)].
- When primary and subsidiary labels are required, they must be displayed next to each other [§172.406(c)].
- For a package containing a Division 6.1, PG III material, the POISON label specified in §172.430 may be modified to display the text PG III instead of POISON or TOXIC. Also see §172.405(c).
- The ORGANIC PEROXIDE label [§172.427] indicates that organic peroxides are highly flammable. Use of the ORGANIC PEROXIDE label eliminates the need for a flammable liquid subsidiary label. The color of the border must be black and the color of the flame may be black or white.

Placarding tables

[§172.504(e)]

TABLE 1

Category of material (Hazard Class or division number and additional description, as appropriate)	Placard name
1.1	EXPLOSIVES 1.1
1.2	EXPLOSIVES 1.2
1.3	EXPLOSIVES 1.3
2.3	POISON GAS
4.3	DANGEROUS WHEN WET
5.2 (Organic peroxide, Type B, liquid or solid, temperature controlled)	ORGANIC PEROXIDE
6.1 (Materials poisonous by inhalation	
(see §171.8)) 7 (Radioactive Yellow III label only)	POISON INHALATION HAZARD RADIOACTIVE ¹

¹RADIOACTIVE placard also required for exclusive use shipments of low specific activity material and surface contaminated objects transported in accordance with §173.427(b)(4) and (5) or (c) of the subchapter. TABLE 2

Category of material (Hazard Class or division number and additional description, as appropriate)	Placard name		
1.4	EXPLOSIVES 1.4 EXPLOSIVES 1.5 EXPLOSIVES 1.6. FLAMMABLE GAS. NON-FLAMMABLE GAS. FLAMMABLE COMBUSTIBLE FLAMMABLE SOLID SPONTANEOUSLY COMBUSTIBLE OXIDIZER ORGANIC PEROXIDE		
 6.1 (Other than materials poisonous by inhalation) 6.2 8 9 ORM-D 	POISON (None) CORROSIVE Class 9 (See §172.504(f)(9)) (None)		

See 49 CFR, Part 172, Subpart F, for complete placarding regulations.

- Each person who offers for transportation or transports any hazardous material subject to the Hazardous Materials Regulations must comply with all applicable requirements of Subpart F [§172.500].
- Placardsmay be displayed for a hazardous material, even when not required, if the placarding otherwise conforms to the requirements of Subpart F of Part 172 [§172.502(c)].
- For other than Class 7 or the DANGEROUS placard, text indicating a hazard (e.g., "FLAMMABLE") is not required. Text may be omitted from the OXYGEN placard only if the specific ID number is displayed on the placard [§172.519(b)(3)].
- For a placard corresponding to the primary or subsidiary hazard class of a material, the hazard class or division number must be displayed in the lower corner of the placard [§172.519(b)(4)].
- Except as otherwise provided, any bulk packaging, freight container, unit load device, transport vehicle or rail car containing any quantity of material listed in Table 1 must be placarded [§172.504].
- When the aggregate gross weight of all hazardous materials in non-bulk packages covered in Table 2 is less than 454 kg (1,001 lbs), no placard is required on a transport vehicle or freight container when transported by highway or rail [§172.504(c)].
- Notes: See §172.504(f)(10) for placarding Division 6.1, PG III materials.
- Placarded loads require registration with USDOT. See §107.601 for registration regulations.
- The new ORGANIC PEROXIDE placard became mandatory 1 January 2011 for transportation by rail, vessel, or aircraft and becomes mandatory 1 January 2014 for transportation by highway. The placard will enable transport workers to readily distinguish peroxides from oxidizers [§172.552].

dentification Number displays



Appropriate placard must be used with orange panel.

IDENTIFICATION NUMBER MARKINGS ON ORANGE PANELS OR APPROPRIATE PLACARDS MUST BE DISPLAYED ON: (1) Tank Cars, Cargo Tanks, Portable Tanks, and other Bulk Packagings; (2) Transport vehicles or freight containers containing 4,000 kg (8,820 lbs) in non-bulk packages of only a single hazardous material having the same proper shipping name and identification number loaded at one facility and transport vehicle contains no other material, hazardous or otherwise; and (3) transport vehicles or freight containers containing 1,000 kg (2,205 lbs) of non-bulk packages of materials poisonous by inhalation in Hazard Zone A or B. See §§172.301(a)(3), 172.313(c), 172.326, 172.328, 172.330, and 172.331.



Square white background required for placard for highway route controlled quantity radioactive material and for rail shipment of certain explosives and poisons, and for flammable gas in a DOT 113 tank car (§172.507 and §172.510).

This Chart is available online at the following link: http://phmsa.dot.gov/hazmat



U.S. Department of Transportation

Pipeline and Hazardous Materials Safety Administration USDOT/PHMSA/OHMIT/PHH-50 1200 New Jersey Avenue, SE Washington, D.C. 20590 Phone: (202) 366-4900 Email: training@dot.gov

PHH50-0138-0413

STRAIGHT BILL OF LADING

(Name of Carrier)

P.K. Contracting, Inc. at 1965 Barrett, Troy, M

Date September 26, 2023

Shipper's No. -

the property described below, in apparent good order, except as noted, marked, consigned, and destined as indicated below, which said company agrees to carry to its usual place of delivery at said destination as indicated below.

Consigned to:

P.K. Contracting, Inc. 1965 Barrett, Troy, MI 48084

Destination:

VARIOUS ROUTES

Route:

Delivering

VARIOUS ROUTES

Carrier:	P.K. Contracting, Inc.			Truck No.		USDOT HAZMAT NO. : 061610 551 016SU	
No. of packages	Type of package	HM	Description of materials, special marks, and exceptions	Weight	Labels required	P.K. Designation	P.K. Category
1	Tank	x	UN1090, FLAMMABLE LIQUID, 3, PG II	95 LBS	FLAMMABLE	ACETONE	SOLVENT
1	Tank	x	UN3267, CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S., (CYCLOHEXANAMINE,4,4-METHYLENEBIS(N- (1-METHYLPROPYL)-), 8, III	730 LBS	CORROSIVE	POLYUREA, LPM 5000 WHITE	PLURAL COMPONENT
1	Tank	x	UN2735, AMINES, LIQUID, CORROSIVE, N.O.S., (ALICYCLIC AMINE, 4,4 - BIS(SECBUTYLAMINO) DICYCLOHEXYLMETHANE), 8, II	175 LBS	CORROSIVE	POLYUREA, LPM 5001 YELLOW	PLURAL COMPONENT
1	Tank		NOTREGULATED	500 LBS	NONE	CROSSLINKER 5050, PART B	PLURAL COMPONENT
1	Tank		NOT REGULATED	400 LBS	NONE	GLASS BEADS, REFLECTORIZING	GLASS BEADS
1	Tank		UN1066, NITROGEN, COMPRESSED, 2, PG		Non-flammable	NITROGEN, COMPRESSED	NITROGEN
	•		ed materials are properly classified, described, packaged, marke a according to the applicable regulations of the Department of Tr		and are	HM EMERGENCY RESPONSE TELEPHONE NUMBER	PLACARDS REQUIRED NONE
				Per		1-800-424-9300 (CHEMTREC)	
Shipper:	P.K. Contracting, Inc.			Agent:	P.K. Contracting	ı, Inc.	
Per:	Date:			Per:		Date:	



 MAIN OFFICE

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 Blue
 Road (M-55)

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 City, MI 49651

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 Fax
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 Central MI Office

 3900 S. US-27

 St. Johns, MI 48879

 PHONE
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 Fax
 989-292-4401

TOOL TALK SAFETY MEETING

TOPIC(S): _____ HAZARD COMMUNICATION & BILL OF LADING FOR POLY DETAIL

DATE:

DIVISION:

Foreman/Presenter's Name:

The presenter is to record attendance by printing the first and last name of each person in attendance.

Printed Name			

ADDITIONAL TOPICS AND/OR SUGGESTIONS FOR NEXT TOOL TALK

PARTNER BY CHOICE. SAFETY BY DESIGN.

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