HAZARDOUS MATERIALS LOAD AND SEGREGATION CHART

	CLASS	C. MCA	ZAI Sources			<u>چ</u> ر	1								2.3							6.1 UIDS	8
CLASS			⁄ స్ <u>శ</u> 1.1	ANY	× > >	1.2	/ 1.3	/ 1.4	/ 1.5	/ 1.6	2.1 V	2.2 V			3 V	4.1 V	4.2	4.3	5.1 V	<u>5.2</u>		7 V	
1	and compatibility group	OSIVES * 1	1.2	QUANTITY	A	オ	ボ	オ	ボ	ボ	X	X	X	X	X	X	X	X	X	X	X	X	X
	*Add division number and compatibility group	OSIVES * 1	1.3	ANY QUANTITY		*	*	*	*	*	X		X	X	X		X	X	X	X	X		X
	*Add compatibility group	.4 osives *	1.4	1,001 Ibs.		*	*	*	*	*	0		0	0	0		0				0		0
	VERY INSENSITIVE EXPLOSIVES	.5 sting ents 1	1.5	1,001 Ibs.	A	*	*	*	*	*	X	X	X	X	X	X	X	X	X	X	X	X	X
	EXTREMELY INSENSITIVE EXPLOSIVES	.6 osives N 1	1.6	1,001 Ibs.		*	*	*	*	*													
class 2	FLAMMABLE GASES	MABLE AAS 2	2.1	1,001 Ibs.		X	X	0	X				X	0							0	0	
	NON-TOXIC NON- FLAMMABLE GASES	AMMABLE GAS 2	2.2	1,001 Ibs.	В	X			X														
	POISONOUS GAS	LATION ZARD 2	2.3	ANY QUANTITY		X	X	0	X		X				X	X	X	X	X	X			X
	POISONOUS GAS	LATION ZARD 2	2.3	ANY QUANTITY		X	X	0	X		0				0	0	0	0	0	0			0
CLASS 3		MABLE 3	3	1,001 Ibs.		X	X	0	X				X	0					0		X		
class 4	FLAMMABLE SOLIDS		4.1	1,001 Ibs.		X			X				X	0							X		0
	SPONTANEOUSLY COMBUSTIBLE	A A	4.2	1,001 Ibs.		X	X	0	X				X	0							X		X
	DANGEROUS WHEN WET MATERIALS	ROUS VER	4.3	ANY QUANTITY		X	X		X				X	0							X		0
CLASS 5	OXIDIZERS	DIZER 5.1	5.1	1,001 Ibs.	A	X	X		X				X	0	0						X		0
		GANIC IOXIDE	5.2	1,001 Ibs.	F	X	X		X				X	0							X		0
class 6	POISONOUS LIQUIDS	LATION ZARD 6	6.1	ANY QUANTITY	E	X	X	0	X		0				X	X	X	X	X	X			X
CLASS 7	RADIOACTIVE MATERIALS	DACTIVE 7	7	ANY QUANTITY (yellow III label)		X			X		0												
class 8		a ROSIVE 8	8	1,001 Ibs.		X	X	0	X				X	0		0	X	0	0	0	X		
class 3	 State of any hazard class or division or a blank space in the Table indicates that no restrictions apply. (2) The letter "X" in the Table indicates that these materials may not be loaded, transported, or stored together in the same transport vehicle or storage facility 																						
class 6	OTHER THAN INHALATION HAZARD, ZONES A or B	c	PĈ III 6	1,001 Ibs.	CE	tran not (4) The sect (5) The	sportation be loaded erials tog "*" in the ion. note " A "	n, commin d above c ether whe ne Table in ' in the th	ngling of or adjacer on it is kn ndicates t ird colum	hazardou nt to Clas lown that that segre nn of the -	is materia s 4 (flam the mixtu egation a Table me	als would mable) or ure of cor mong diff ans that,	not occu r Class 5 ntents wo ferent Cla notwithst	r. Notwith (oxidizing uld not c ss 1 (exp anding th	nstanding g) materia ause a fir blosive) m ne require	the methals; excepter or a data the method and the second attended attende attended attended	nods of se ot that shi ingerous s governe	eparation ippers ma evolution ed by the	employe ay load tr of heat o compati	d, Class uckload s	8 (corrosi hipments e in parag	ve) liquid of such raph (f) c	of this
class 9	MISCELLANEOUS			1,001 Ibs.	C D	(6) Whe haze may othe mat	en the §1 ard must be stow	72.101 Ta be applie ed togeth	able or §1 d when t er withou	hat segre It regard 1	of this sub gation is to segreg	ochapter more res ation req	requires a strictive th uired for	a package an that r any seco	e to bear equired b ndary ha ammable	a subsid by the prin zard if th b, poisond	mary haz e materia ous, or as	ard. How Is are no phyxiant	ever, haz t capable gases, o	on appro ardous m of reaction r formation	aterials ong dange ng dange n of corro	f the sam rously wi osive or u	ne class th each instable
A. See instructions §177.848(e)(5). B. For domestic transportation of oxygen, compressed or oxygen, refrigerated liquid, the oxygen placard may be used in place of NON-FLAMMABLE GAS placard (§172.504(f)(7). C. No applicable segregation restrictions in §177.848(d). Discont and the instruction of the oxygen placed may be used in place of NON-FLAMMABLE GAS placard (§172.504(f)(7). C. No applicable segregation restrictions in §177.848(d). Discont and the instruction of the instru												f paragra subchap d transpo nsported e A mate erial, Clas	upter, cyanides, cyanide mixtures or solutions sorted with acids; Division 4.2 materials may d with Class 8 liquids; and Division 6.1 lerial may not be stored, loaded and ass 8 liquids, and Division 4.1, 4.2, 4.3, 5.1										

(Rev. 1/11)

HAZARDOUS MATERIALS LOAD AND SEGREGATION CHART

COMPATIBILITY TABLE FOR CLASS 1 (EXPLOSIVE) MATERIALS													
COMPATIBILITY GROUP	A	в	с	D	Е	F	G	н	J	к	L	N	s
Α		Х	Х	Х	Х	Х	Х	Х	Х	Х	х	Х	х
В	Х		х	X (4)	x	X	x	x	X	x	x	X	4/5
С	Х	x		2	2	X	6	x	X	x	x	3	4/5
D	Х	X (4)	2		2	х	6	x	X	x	x	3	4/5
E	Х	x	2	2		х	6	x	X	x	x	3	4/5
F	Х	x	х	X	x		x	x	X	x	x	X	4/5
G	Х	x	6	6	6	Х		x	X	x	x	X	4/5
н	Х	x	Х	X	X	Х	x		X	x	x	X	4/5
J	Х	x	Х	X	X	Х	x	x		x	x	X	4/5
К	Х	x	Х	X	X	Х	x	x	X		x	X	4/5
L	Х	x	Х	X	X	Х	x	x	X	x	1	X	x
N	Х	x	3	3	3	Х	x	x	X	x	x		4/5
S	Х	4/5	4/5	4/5	4/5	4/5	4/5	4/5	4/5	4/5	x	4/5	

§177.848

(g) Instructions for using the compatibility table for Class 1 (explosive) materials are as follows:

(1) A blank space in the Table indicates that no restrictions apply

(2) The letter "X" in the Table indicates that explosives of different compatibility groups may not be carried on the same ransport vehicle

(3) The numbers in the Table mean the following

"1" means an explosive from compatibility group L shall only be carried on the same transport vehicle with an identical (i) explosive.

(ii) "2" means any combination of explosives from compatibility groups C, D, or E is assigned to compatibility group E. (iii) "3" means any combination of explosives from compatibility groups C, D, or E with those in compatibility group N is assigned to compatibility group D.

(iv) "4" means 'see §177.835(g)' when transporting detonators.

"5" means Division 1.4S fireworks may not be loaded on the same transport vehicle with Division 1.1 or 1.2 (explosiv (v) natérials

(vi) "6" means explosive articles in compatibility group G, other than fireworks and those requiring special handling loaded, transported and stored with other explosive articles of compatibility groups C, D and E, provided that substances (such as those not contained in articles) are not carried in the same vehicle. ay be explosive ns the low

(h) Except as provided in paragraph (i) of this section, explosives of the same compatibility group but of different divisimaly be transported together provided that the whole shipment is transported as though its entire contents were of the I numerical division (i.e., Division 1.1 being lower than Division 1.2). For example, a mixed shipment of Division 1.2 (explomaterials and Division 1.4 (explosive) materials, both of compatibility group D, must be transported as Division 1.2 (explomaterials). materials

(i) When Division 1.5 materials, compatibility group D, are transported in the same freight (explosive) materials, compatibility group D, the shipment must be transported as Division 1.1 (explosive) container as Division 1.2 sive) materials, compatibility group D.

ORM-D

aterials that rec unit load dev

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INHALATION

HAZARD

6

CORROSIVE

INHALATION

HAZARD

2

DANGEROUS W

PLACARDS NOT REQUIRED FOR:

- 1. Infectious substances (Division 6.2).
- 2. Combustible liquids in non-bulk packagings.
- 3. ORM-D materials
- 4. Limited quantities when identified on pape
- 5. Radioactive (Class 7) I or II labels
- 6. Small quantities per §173.4.
- 7. Excepted quantities per §173.4a.
- 8. Class 9 materials in domestic transport.

9. Materials prepared per §173.13

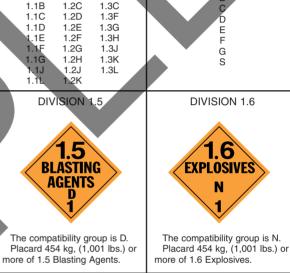
§172.504(g) COMPATIBILITY GROUP LETTER

For shipments of Class 1 (explosive materials) by aircraft or vessel, the applicable compatibility group letter must be displayed on the placards, or labels when applicable, required by this section. When more than one compatibility group placard is required for Class 1 materials, only one placard is required to be displayed, as provided in paragraphs (g)(1) through (g)(4) of this section. For the purposes of paragraphs (g)(1) through (g)(4), there is a distinction between the phrases *explosive articles* and *explosive substances*. *Explosive articles* means an article containing an explosive substance; examples include

a detonator, flare, primer or fuse. Explosive substance means a substance contained in a packaging that is not contained in an article; examples include black powder and smokeless powder.

- Explosive articles of compatibility groups **EXPLOSIVES** C, D or E may be placarded displaying compatibility group E. 1.1D
- (2) Explosive articles of compatibility groups C, D, or E, when transported with those in compatibility group N, may be placarded displaying compatibility group D.
- (3) Explosive substances of compatibility groups C and D may be placarded displaying compatibility group D.
- Explosive articles of compatibility groups C, D, E or G, except for fireworks, may be placarded displaying compatibility group E.

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CLASS 1 EXPLOSIVE PLACARDS

DIVISION 1.4

14 EXPLOSIVES

*

The competibility group is printed in black ink, where the '

more of 1.4 Explosives

Placard 454 kg. (1,001 lbs.) or

* Compatibility Group

is shown

DIVISIONS

1.1, 1.2 & 1.3

The Division number and

Placard any quantity of

1.1A

1.1B

1.1C

1.1D

.1E

.1G

1.1

1 1

compatibility group are printed in black ink where the * is shown.

Division 1.1, 1.2 or 1.3 material.

Compatibility Group 1.2B

* Division Numbers and

1 21

EXPLOSIVES *

DANGEROUS PLACARD FOR MIXED LOADS Placard 454 kg (1.001 lbs.) gross weight of two or more categories of hazardous materials listed in Table 2. A freight container, vehicle, or rail car which contains nonbulk packages with two or more categories of hazardous Total device, transport venicie, or rail car which contains nonbulk packages with two or more categories of hazardous erials that require different placards, as specified in Table 2, may be placarded with a DANGEROUS placard instead of the arate placarding specified for each of the materials in Table 2. However, when 1,000 kg (2,205 pounds) aggregate gross ght or more of one category of material is loaded therein at one loading facility on a freight container, unit load device, sport vehicle, or rail car, the placard specified in Table 2 for that category must be applied.

D

Division 14 Division 1.5 Division 1.6 Division 2.1 DANGEROUS Division 2.2 Class 3 Combustible liquid Division 4.1

Division 4.2 Division 5.1 Division 5.2, other than Type B, liquid or solid, temperature controlled Division 6.1, other than material poisonous by inhalation Class 8 Class 9

§172.505 PLACARDING FOR SUBSIDIARY HAZARDS

(a) Each transport vehicle, freight container, portable tank, unit load device, or rail car that contains a poisonous material subject to the "Poison Inhalation Hazard" shipping description of §172.203(m) must be placarded with a POISON INHALATION HAZARD or POISON GAS placard, as appropriate, on each side and each end, in addition to any other placard required for that material in §172.504. Duplication of the POISON INHALATION HAZARD or POISON GAS placard is not required.

(b) In addition to the RADIOACTIVE placard which may be required by §172.504(e) of this subpart, each transport vehicle, portable tank or freight container that contains 454 kg (1,001 pounds) or more gross weight of fissile or low specific activity uranium hexafluoride shall be placarded with a CORROSIVE placard on each side and each end.

(c) Each transport vehicle, portable tank, freight container or unit load device that contains a material which has a subsidiary hazard of being dangerous when wet, as defined in §173.124 of this subchapter, shall be placarded with DANGEROUS WHEN WET placards, on each side and each end, in addition to the placards required by §172.504.

(d) Hazardous materials that possess secondary hazards may exhibit subsidiary placards that correspond to the placards described in this part, even when not required by this part (see also §172.519(b)(4) of this subpart).