



www.hazcaptain.com

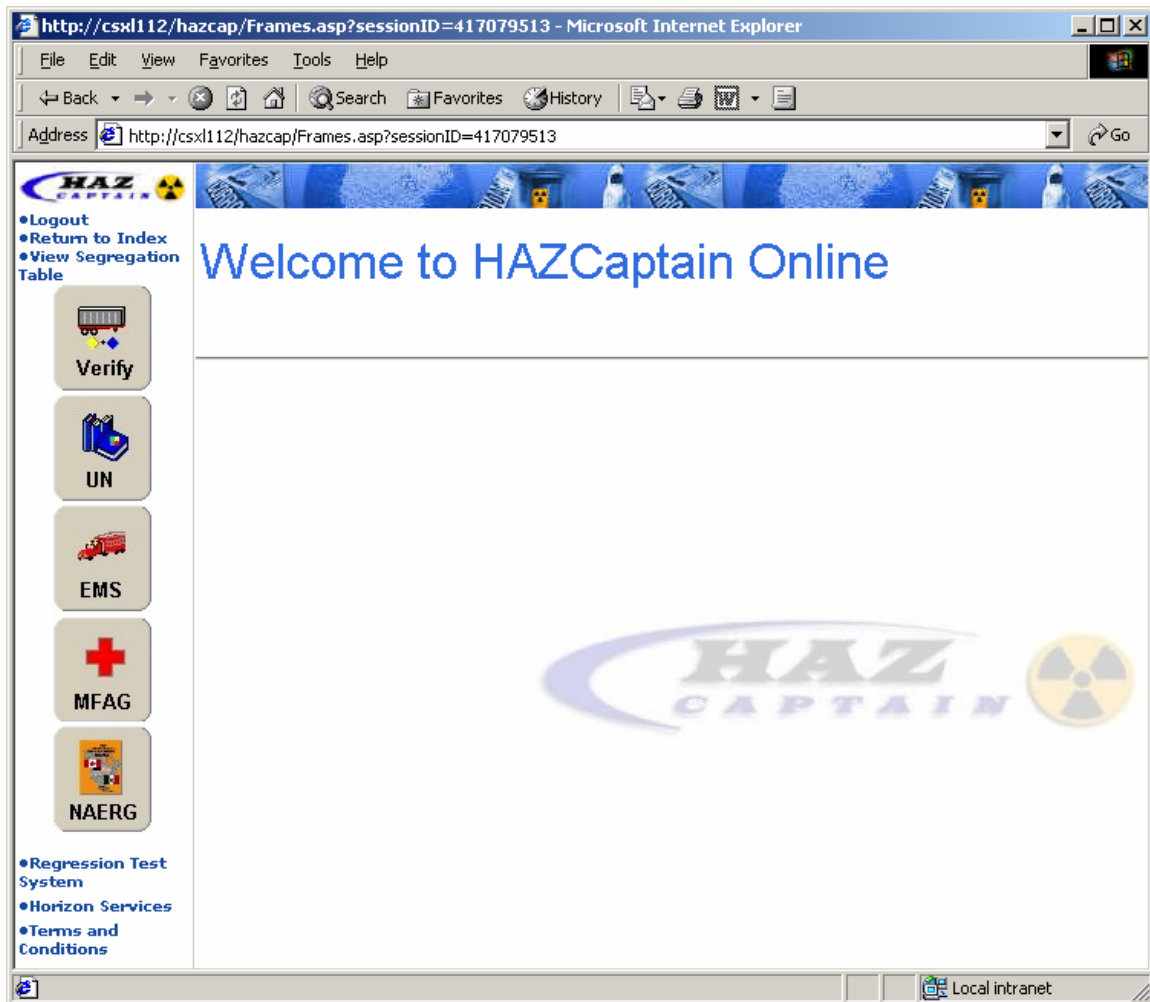
USER GUIDE

Making every load safe and compliant
using the latest regulations



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HAZcaptain Web Tool Tutorial



Welcome to HAZcaptain, this is the Index page.

On the left hand navigation, you can view information by clicking on a link or a button to retrieve the particular information you are wanting to see.

HAZcaptain Web Tool Tutorial

View Segregation Table link

Once you have clicked on this link you will be provided 3 options:

- Segregation Guide

SEGREGATION TABLE																	
Class	1.1	1.2 1.5	1.3	1.4	1.6	2.1	2.2	2.3	3	4.1	4.2	4.3	5.1	5.2	6.1	6.2	7
Explosives 1.1 & 1.5	*	*	*	*	*	4	2	2	4	4	4	4	4	4	2	4	2
Explosives 1.2	*	*	*	*	x	4	2	2	4	4	4	4	4	4	2	4	2
Explosives 1.3	x	*	*	*	x	4	2	2	4	3	3	4	4	4	2	4	2
Explosives 1.4	*	*	*	*	*	2	1	1	2	2	2	2	2	2	x	4	2
Explosives 1.6	*	*	*	*	*	2	1	1	2	2	2	2	2	2	2	4	2
Flammable gases 2.1	4	4	4	2	4	x	x	x	2	1	2	x	2	2	x	4	2
Non-toxic non-flammable gases 2.2	2	2	2	1	2	x	x	x	1	x	1	x	x	1	x	2	1
Poisonous gases 2.3	2	2	2	1	2	x	x	x	2	x	2	x	x	2	x	2	1
Flammable liquids 3	4	4	4	2	4	2	1	2	x	x	2	1	2	2	x	3	2
Flammable solids 4.1	4	4	3	2	3	1	x	x	x	x	1	x	1	2	x	3	2
Spontaneously combustible 4.2	4	4	3	2	3	2	1	2	2	1	x	1	2	2	1	3	2
Dangerous when wet 4.3	4	4	4	2	4	x	x	x	1	x	1	x	2	2	x	2	2
Oxidizing substances 5.1	4	4	4	2	4	2	x	x	2	1	2	2	x	2	1	3	1
Organic peroxides 5.2	4	4	4	2	4	2	1	2	2	2	2	2	2	x	1	3	2
Poisons 6.1	2	2	2	x	2	x	x	x	x	x	1	x	1	1	x	1	x
Infectious substances 6.2	4	4	4	4	4	4	2	2	3	3	3	2	3	3	1	x	3
Radioactive materials 7	2	2	2	2	2	2	1	1	2	2	2	2	1	2	x	3	x
Corrosives 8	4	4	2	2	2	1	x	x	x	1	1	1	2	2	x	3	2
Miscellaneous dangerous substances and articles 9	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x

Numbers and symbols relate to the following terms as defined in this section:	
x	x - Segregation, if any, is chemical specific based on individual UN numbers.
1	1 - "Away from"- 3 meters apart horizontally projected vertically; cannot be in the same freight container without competent authorization
2	2 - "Separated from"- in different compartment or holds below deck; 6 meters apart horizontally on deck. Cannot be in same freight container.
3	3 - "Separated by a complete compartment or hold from"- requires an intervening hold or compartment below deck; on deck at 1 meters horizontal separation must exist. Cannot be in the same freight container.
4	4 - "Separated longitudinally by an intervening complete compartment or hold from"- separation must be at least 24 meters in the horizontal, longitudinal plane with an intervening complete compartment or hold below deck. On deck at least 24 meters separation longitudinally is required. Cannot be in the same freight container.
*	* - See subsection 7.2.7.2 of chapter 7 of the IMDG Code.

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- Explosive Segregation Table

EXPLOSIVE SEGREGATION TABLE														
Group	A	B	C	D	E	F	G	H	I	J	K	L	N	S
A	x													
B		x												x
C			x	x6	x6		x1						x4	x
D			x6	x	x6		x1						x4	x
E			x6	x6	x		x1						x4	x
F						x								x
G			x1	x1	x1		x							x
H								x						x

Numbers and symbols relate to the following terms as defined in this section:	
x	x - Goods of these compatibility groups may be stowed in the same compartment, magazine or freight transport unit.
x1	x1 - Explosive Articles in compatibility group G (other than fireworks; those require special stowage) may be stowed with explosive articles of compatibility groups C, D, E, but not with explosive substances in these compatibility groups.
x2	x2 - A consignment of one type in compatibility group L should only be stowed with a consignment of the same type in compatibility group L.
x3	x3 - Different types of articles of division 1.6 compatibility group N may only be transported together when it is proven there is additional risk of sympathetic detonation between the articles. Otherwise they should be treated as division 1.1.
x4	x4 - When articles of compatibility group N are transported together with articles or substances of compatibility groups C, D, or goods of compatibility group N should be treated as compatibility group D.
x5	x5 - When articles of compatibility group N are transported together with articles or substances of compatibility group S, the articles should be treated as compatibility group N.
x6	x6 - Any combination of articles in compatibility groups C, D, and E should be treated as compatibility group E. Any combination of articles in compatibility groups C and D should be treated as the most appropriate compatibility groups shown in 2.1.2.3 taking account the predominant characteristics of the combined load. This overall classification code should be shown on any label or

- Container Segregation On Board Container Ships

TABLE OF SEGREGATION OF FREIGHT CONTAINERS ON BOARD CONTAINER SHIPS									
SEGREGATION REQUIREMENT	VERTICAL			HORIZONTAL					
	CLOSED	CLOSED	OPEN	CLOSED VERSUS CLOSED		CLOSED VERSUS OPEN		O	
	VERSUS	VERSUS	VERSUS	ON DECK	UNDER DECK	ON DECK	UNDER DECK	O	
	CLOSED	OPEN	CLOSED						
AWAY FROM 1	ONE ON	OPEN		FORE AND AFT	NO RESTRICTION	NO RESTRICTION	NO RESTRICTION	NO RESTRICTION	O
	TOP OF	ON TOP OF	NOT IN THE SAME						C
		CLOSED	VERTICAL						S
	THE OTHER	PERMITTED	LINE						
		PERMITTED	UNLESS SEGREGATED	ATHWARTSHIPS	NO RESTRICTION	NO RESTRICTION	NO RESTRICTION	NO RESTRICTION	
		OTHERWISE AS FOR	BY A DECK						C
		OPEN							S
		VERSUS							
	OPEN								

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Verify UN Compatibility button



Check your load on line

Select a data type:			
<input checked="" type="radio"/> UN Number (4 digits)	<input type="text"/>	<input type="button" value="Search"/>	Refresh Frames
<input type="radio"/> UN Description	<input type="text"/>		

Delete	UN Number	Chemical Name	Primary Class	Secondary Class	Tertiary Class	Marine pollutant	Reportable Quantity
--------	-----------	---------------	---------------	-----------------	----------------	------------------	---------------------



You can enter a numeric 4 digit un number or un description to search. There is unlimited UN numbers you can verify.

Some UN's have more than 1 value to select from:

Check your load on line

Select a data type:			
<input checked="" type="radio"/> UN Number (4 digits)	<input type="text" value="1263"/>	<input type="button" value="Search"/>	
<input type="radio"/> UN Description	<input type="text"/>		

The 1263 UN number has a multiple values. Please choose

- 3 - Paint (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base
- 3 - Paint (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base
- 3 - Paint (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base
- 3 - Paint (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base



Once you have found the value you are looking for, highlight the line and click on the Submit button.

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You are able to click on the UN number link to view the UN page or click on the Chemical Name link to view more detail about the UN.

Once you have selected all of the UN numbers you want to verify compatibility, you will click on the Check Compatibility button.

Check your load on line	
Select a data type:	
<input checked="" type="radio"/> UN Number (4 digits)	<input type="text" value="1748"/>
<input type="radio"/> UN Description	<input type="text"/>
<input type="button" value="Search"/>	Refresh Frames

Delete	UN Number	Name
<input type="checkbox"/>	1748	Calcium Hypochlorite, Dry or Calcium Hypochlorite Mixture,
<input type="checkbox"/>	1263	Paint (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler

If there are any conflicts, you will see a YES in the Conflict column next to the description name.

UN #	Name	Conflict
1748	Calcium Hypochlorite, Dry or Calcium Hypochlorite Mixture, Dry with more than 39% available chlorine (8.8% available oxygen)	YES
1263	Paint (including paint, lacquer, enamel, stain, shellac solutions, varnish, polish, liquid filler and liquid lacquer base) or Paint Related Material (including paint thinning or reducing compound)	YES

Additional information provided about the conflict will be displayed below this information.

1748 - CONFLICT found. IF You want to ship you MUST have
1263 - 2-Separated from: # 1748
Loading pattern for 1748 :
No compatible loading pattern found ! This UN is INCOMPATIBLE with all other listed Numbers

1263 - CONFLICT found. IF You want to ship you MUST have
1748 - 2-Separated from: # 1263
Loading pattern for 1263 :
No compatible loading pattern found ! This UN is INCOMPATIBLE with all other listed Numbers

HAZcaptain Web Tool Tutorial

Disclaimer Information

Disclaimer: HAZcaptain is based on the IMDG Code (Amdt. 30) and the 2000 North American Emergency Response Guide (ERG2000). It is intended for use as an aid in determining compatible stowage of hazardous materials within a freight container and correct emergency response. While every effort has been made to ensure full adherence to the Code's provisions, and the provisions of ERG2000, there is no warranty, expressed or implied, as to the program's accuracy. The user must accept full accountability and responsibility for compliance with the IMDG Code and all other appropriate national and international rules and regulations, and for correct response to any incident involving hazardous materials.

All of the UN Compatibility information can be printed.

To return back to the Verification Screen, you can click on the Refresh Frames link or click on the Verify Button.

UN Search



View UN Information

UN Number (4 digits, e.g. 1111)

Search

[Refresh Frames](#)

[Click for UN listings](#)

Select UN from list.

0004 - Ammonium Picrate, dry or wetted w/< 10% water, by mass
0005 - Cartridges for Weapons, with bursting charge
0006 - Cartridges for Weapons, with bursting charge
0007 - Cartridges for Weapons, with bursting charge
0009 - Ammunition, Incendiary, w/ or w/o burster, expelling charge or propelling charge
0010 - Ammunition, Incendiary, w/ or w/o burster, expelling charge or propelling charge
0012 - Cartridges for Weapons, Inert Projectile
0012 - Cartridges, Small Arms
0014 - Cartridges for Weapons, Blank
0014 - Cartridges, Small Arms, Blank

Submit

You can search by the specific UN number or Click on the UN Listing link to view ALL UN's and highlight the line and click on the Submit button.

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Once the UN has been found or selected from the list, you will see the UN Information page.

UN INFORMATION

[Synonyms...](#) [Properties...](#) [Warnings...](#)

[Previous](#) [Next](#)

Materials	Conflicts
None	None
UN Number:	0009
Guide No:	112
Shipping Name:	Ammunition, Incendiary, w/ or w/o burster, expelling charge or propelling charge
Compatibility Group:	G
MFAG No:	
EMS No:	1-02
Marine Pollutant:	No
Reportable Quantity:	...
Other Notes:	<None>
Limited Quantity Amount:	None
Packing Group(s):	...
HAZARD CLASSES	
Primary:	1.2 Explosives
Secondary:	<None>
Tertiary:	<None>
OPTIONAL SEGREGATION CLASS	
	<None>

This page provide options to click on and view other information:

UN INFORMATION

[Synonyms...](#) [Properties...](#) [Warnings...](#)

The Synonyms, Properties and Warnings links have additional information related to the particular UN.

[Previous](#) [Next](#)

The Previous and Next button allows you to scroll back and forth numerically to other UN's.

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Materials	Conflicts
None	None
UN Number:	0009
Guide No:	112
Shipping Name:	Ammunition, Incendiary, w/ or w/o burster, expelling charge or propelling charge
Compatibility Group:	G
MFAG No:	
EMS No:	1-02
Marine Pollutant:	No
Reportable Quantity:	...
Other Notes:	<None>
Limited Quantity Amount:	None
Packing Group(s):	...
HAZARD CLASSES	
Primary:	1.2 Explosives
Secondary:	<None>
Tertiary:	<None>
OPTIONAL SEGREGATION CLASS	
	<None>

This piece of the UN page has links to the UN description, Emergency Response Guide, Emergency Medical Schedule information.

Hazardous Classification and Placarding information is provided in the Primary and Secondary information fields.

Emergency Medical Schedule



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View EMS Schedules

EMS Number (3 or 4 digits, e.g. 1-01)

[Refresh Frames](#)

[Click for EMS listings](#)

Select an existing EMS from list:

1-01 ▲
1-02 □
1-03 □
1-04 □
1-05 □
1-06 □
1-07 □
1-08 □
2-01 □
2-02 ▼

You can search by the specific EMS number or Click on the EMS Listing link to view ALL Emergency Medical Schedule numbers and highlight the line and click on the Submit button.

Once you have selected the EMS number, you will see various information as to handling cargo related to the EMS number.

EMERGENCY SCHEDULE 1-06 CLASS 1, DIVISION 1.6

PRIMARY HAZARD	EXPLOSIVE ARTICLES, WITH FIRE HAZARD AND WHICH MAY EVOLVE TOXIC FUMES IN A FIRE
ASSOCIATED HAZARDS	POSSIBLE EVOLUTION OF TOXIC FUMES IN A FIRE
Special Emergency Equipment to be carried	Special Emergency Equipment to be carried Protective clothing (gloves, boots, fire-resistant coveralls, headgear with visors). Self-contained breathing apparatus. Non-sparking * footwear. (* Footwear which has no exposed iron or steel) Soft brushes and plastics trays.
EMERGENCY PROCEDURES	Wear non-sparking * footwear when dealing with SPILLAGE. Avoid sources of ignition (e.g. naked lights, unprotected light bulbs, electric handtools, mechanical shock, friction). Use self-contained breathing apparatus and protective clothing when dealing with FIRE. * Footwear which has no exposed iron or steel
EMERGENCY ACTION: On Deck	
SPILLAGE	Of articles Sweep or pick up articles. If the articles remain intact but appear damaged, segregate and seek advice. Of contents of articles Keep wet. Wash spillage overboard with copious quantities of water.

Medical First Aid Guide



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View MFAG Schedules

MFAG Number (3 digits, e.g. 100)

[Click for MFAG listings](#)

Select an existing MFAG from list:

851 ▲
A1
A2
A3
A4
A5
A6
A7
A8
A9 ▼

You can search by the specific MFAG number or Click on the MFAG Listing link to view ALL Medical First Aid Guide numbers and highlight the line and click on the Submit button.

Once you have selected the MFAG number, you will see various information as to handling cargo related to the MFAG number.

View MFAG Schedules

MFAG Number (3 digits, e.g. 100)

[Refresh Frames](#)

[Click for MFAG listings](#)

APPENDIX-6 TOXIC MENTAL CONFUSION

Mental confusion state is the name given to the condition where a casualty becomes confused and disoriented after being poisoned by a chemical including alcohol and illicit substances. Even hallucinations (hearing voices and/or seeing terrifying images) can occur either as a direct result of the chemical on the brain, e.g. chlorinated hydrocarbons, or indirectly, when the function of vital organs such as heart, liver, or kidney are severely disturbed by poisons.

Diagnosis

- If the mental confusion state is due to a direct action of the chemical on the brain, the casualty will develop the signs and symptoms within 15 to 30 minutes after exposure.
- The casualty may be disorientated as to the date, time and place, and be unable to speak coherently. He may be unable to recognize friends, or perform simple tasks which he does in everyday life.
- On occasions, the casualty may appear drowsy and can only be roused with difficulty.

Look for signs of

- Suffocation (see Table-9)
- Shock (see Table-11)
- Jaundice (see Table-15)
- Acute kidney failure (see Table-12)

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North American Emergency Response Guide



View NAERG

NAERG Number (3 digits, e.g. 111)

[Refresh Frames](#)

[Click for NAERG listings](#)

Select NAERG from list.

- 113 ▲
- 115
- 124
- 151
- 152
- 153
- 128
- 166
- 167
- 168 ▼

You can search by the specific NAERG number or Click on the NAERG Listing link to view ALL North American Emergency Response Guide numbers and highlight the line and click on the Submit button.

Once you have selected the NAERG number, you will see various information as to handling cargo related to the NAERG number.

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View NAERG

NAERG Number (3 digits, e.g. 111)	<input type="text"/>	<input type="button" value="Search"/>	Refresh Frames
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[Click for NAERG listings](#)

153
Substances - Toxic and / or Corrosive (Combustible)

FIRE	Combustible material: may burn but does not ignite readily. When heated, vapors may form explosive mixtures with air: indoors, outdoors, and sewers explosion hazards. Those substances designated with a /b"P"/n may polymerize explosively when heated or involved in a fire. Contact with metal may evolve flammable hydrogen gas. Containers may explode when heated. Runoff may pollute waterways. Substance may be transported in a molten form.
HEALTH	/bTOXIC/n; inhalation, ingestion, or skin contact with material may cause severe injury or death. Contact with molten substance may cause severe burns to skin and eyes. Avoid any skin contact. Effects of contact or inhalation may be delayed. Fire may produce irritation, corrosive and/or toxic gases. Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution.
PUBLIC SAFETY	/bCALL Emergency Response Telephone Number on Shipping Paper first. If shipping Paper not available or no answer, refer to appropriate telephone number listed here: CANUTEC (for Canadian shipments) 613-996-6666 (Collect calls are accepted) *666 cellular (In Canada Only)