than 150 mm (6 inches) apart. All stand-
cchions and other unprotected struc-
tural members must be similarly clean
and battened. The underside of the
deck above the magazine must be clean
and free of rust and scale, but need not
be battened.

(d) The top of the stow within the
magazine must be at least 30 cm (12
inches) from the underside of the deck
above.

(e) A type A magazine constructed in
the square of a cargo space may not be
loaded from the top.

(f) When other Class 1 (explosive) ma-
terials are stowed with Class 1 (explo-
sive) materials for which magazine
stowage type A is required, they or
their packagings may have no exposed
external parts made of ferrous metal or
aluminum alloy.

§ 176.132 [Reserved]

§ 176.133 Magazine stowage Type C.

The construction requirements for
magazine stowage type C are the same
as for a closed cargo transport unit in
§ 176.63(e). In addition, the magazine
must be located as near as practicable
to the centerline of the vessel and must
not be closer to the vessel’s side than a
distance equal to one-eighth of the ves-
sel’s beam or 2.4 m (8 feet), whichever
is less.

[69 FR 76184, Dec. 20, 2004]

§ 176.134 Vehicles.

Closed vehicles may be used to trans-
port Class 1 (explosive) materials re-
quiring magazine stowage when carried
by vessel if they meet the requirements
of the appropriate magazine stowage
type. See §176.168 of this subpart for
additional requirements relating to the
transport of Class 1 (explosive) mate-
rials in vehicles.

§ 176.136 Special stowage.

(a) Special stowage is required for
certain articles presenting both explo-
sive and chemical hazards, such as
smoke or lachrymatory (compatibility
group G or H), toxic (compatibility
group K), or substances and articles
which present a special risk (compat-
ibility group L). Except as permitted in
paragraph (c) of this section, Class 1
(explosive) materials requiring special
stowage must be stowed on deck unless
such stowage is impracticable and the
COTP authorizes special stowage below
deck. Where on deck stowage is rec-
ommended and an alternative stowage
below deck is permitted by the COTP,
the stowage must always be subject to
special stowage.

(b) Class 1 (explosive) materials for
which special stowage is required must
be stowed as far away as practicable
from living, accommodation, and work-
ing areas, and may not be overstowed.
Closed cargo transport units in which
such Class 1 (explosive) materials are
stowed may not be located closer to
the vessel’s side than a distance equal
to one-eighth of the vessel’s beam or
2.4 m (8 feet), whichever is less.

(c) Class 1 (explosive) materials in
compatibility groups G and H may be
transported in steel magazines or in
freight containers. If a freight con-
tainer is used for this purpose, the
floor of the freight container must be
leakproof; for example, an all-metal
container may be used and a fillet of
cement or other material worked
across the bottom of the door opening.

(d) Class 1 (explosive) materials
stowed in one compartment may not be
of more than one compatibility group,
except the COTP may allow Class 1 (ex-
plosive) materials of compatibility
groups G and H in separate steel maga-
zines to be stowed in the same com-
partment, not less than 3 m (10 feet)
apart.

(e) Class 1 (explosive) materials in
compatibility groups K and L must be
stowed in a steel magazine regardless
of the stowage position in the vessel.

[69 FR 76184, Dec. 20, 2004]

§ 176.137 Portable magazine.

(a) Each portable magazine used for
the stowage of Class 1 (explosive) mate-
rials on board vessels must meet the
following requirements:

(1) It must be weather-tight, con-
structed of wood or metal lined with
wood at least 2 cm (0.787 inch) thick,
and with a capacity of no more than 3.1
cubic m (110 cubic feet).

(2) All inner surfaces must be smooth
and free of any protruding nails, screws
or other projections.

(3) If constructed of wood, a portable
magazine must be framed of nominal 5
§ 176.138 Deck stowage.

(a) [Reserved]

(b) Class 1 (explosive) materials may not be stowed within a horizontal distance of 6 m (20 feet) from any fire, machinery exhaust, galley uptake, locker used for combustible stores, or other potential sources of ignition. They must be clear of walkways and cargo working areas, fire hydrants, steam pipes, and means of access; away from all other facilities necessary for the safe working of the vessel, and not less than a horizontal distance of 8 m (26 feet) from the bridge, accommodation areas, and lifesaving appliances.

(c) Where vessels are fitted with container fastening arrangements, freight containers containing Class 1 (explosive) materials may be overstowed by containers of compatible Class 1 (explosive) materials or non-hazardous cargo. Where vessels are not fitted with container fastening arrangements, freight containers loaded with Class 1 (explosive) materials may be stowed only on the bottom tier of the stowage.


§ 176.140 Segregation from other classes of hazardous materials.

(a) Class 1 (explosive) materials must be segregated from other packaged hazardous materials in accordance with § 176.83.

(b) Class 1 (explosive) materials must be segregated from bulk solid dangerous cargoes in accordance with the IMDG Code (IBR, see § 171.7 of this subchapter). Notwithstanding § 176.83(b), ammonium nitrate and sodium nitrate may be stowed together with blasting explosives, except those containing chlorates, provided the mixed stowage is treated as blasting explosives (see § 176.410(e)).


§ 176.142 Hazardous materials of extreme flammability.

(a) Except as allowed by paragraph (b) of this section, certain hazardous materials of extreme flammability may not be transported in a vessel carrying Class 1 (explosive) materials. This prohibition applies to the following liquid hazardous materials:

Carbon disulfide.  UN1131 ... Class 3
Diethylzinc ... UN1366 ... Division 4.2
Dimethylzinc ... UN1370 ... Division 4.2
Magnesium alkys.  UN3053 ... Division 4.2
Methyl phosphonous chloride.  NA2845 ... Division 6.1
Methyl phosphono-chloride.  UN1259 ... Division 6.1
Pyrophoric liquid, inorganic, n.o.s.  UN3194 ... Division 4.2

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