APPENDIX D TO PART 173—TEST METHODS FOR
BASE-LEVEL VIBRATION TESTING
APPENDIX E TO PART 173 [RESERVED]
APPENDIX F TO PART 173 [RESERVED]
APPENDIX G TO PART 173 [RESERVED]
APPENDIX H TO PART 173—METHOD OF TEST-
ING FOR SUSTAINED COMBUSTIBILITY

AUTHORITY: 49 U.S.C. 5101–5128, 44701; 49
CFR 1.81, 1.96 and 1.97.

EDITORIAL NOTE: Nomenclature changes to

Subpart A—General

§ 173.1 Purpose and scope.

(a) This part includes:
(1) Definitions of hazardous materials for
transportation purposes;
(2) Requirements to be observed in
preparing hazardous materials for ship-
ment by air, highway, rail, or water, or
any combination thereof; and
(3) Inspection, testing, and retesting
responsibilities for persons who retest,
recondition, maintain, repair and re-
buid containers used or intended for
use in the transportation of hazardous
materials.

(b) A shipment of hazardous mate-
rials that is not prepared in accordance
with this subchapter may not be of-
fered for transportation by air, high-
way, rail, or water. It is the respon-
sibility of each hazmat employer subject
to the requirements of this subchapter
to ensure that each hazmat employee
is trained in accordance with the re-
quirements prescribed in this sub-
chapter. It is the duty of each person
who offers hazardous materials for
transportation to instruct each of his
officers, agents, and employees having
any responsibility for preparing haz-
ardous materials for shipment as to ap-
licable regulations in this subchapter.

(c) In general, the Hazardous Mate-
rials Regulations (HMR) contained in
this subchapter are based on the UN
Recommendations and are consistent
with international regulations issued
by the International Civil Aviation Or-
anization (ICAO Technical Instruc-
tions) and the International Maritime
Organization (IMDG Code). However,
the HMR are not consistent in all re-
spects with the UN Recommendations,
the ICAO Technical Instructions or the
IMDG Code, and compliance with the
HMR will not guarantee acceptance by
regulatory bodies outside of the United
States.

49 CFR Ch. I (10–1–14 Edition)

§ 173.2 Hazardous materials classes
and index to hazard class defini-
tions.

The hazard class of a hazardous ma-
terial is indicated either by its class
(or division) number, its class name, or
by the letters “ORM-D.” The following
table lists class numbers, division num-
bers, class or division names and those
sections of this subchapter which con-
tain definitions for classifying haz-
ardous materials, including forbidden
materials.

<table>
<thead>
<tr>
<th>Class No.</th>
<th>Division No. (if any)</th>
<th>Name of class or division</th>
<th>49 CFR reference for definitions</th>
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<td>None</td>
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<td>Forbidden materials</td>
<td>173.21</td>
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<td>Forbidden explosives</td>
<td>173.45</td>
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<td>Explosives (with a mass explosion hazard)</td>
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<td>Explosives (with a projection hazard)</td>
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<td>1</td>
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<td>Explosives (with predominately a fire hazard)</td>
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<td>1</td>
<td>1.4</td>
<td>Explosives (with no significant blast hazard)</td>
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<td>1</td>
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<td>Very insensitive explosives; blasting agents</td>
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<td>1</td>
<td>1.6</td>
<td>Extremely insensitive detonating substances</td>
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<td>Flammable gas</td>
<td>173.115</td>
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<td>Non-flammable compressed gas</td>
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<td>Poisonous gas</td>
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<td>Flammable and combustible liquid</td>
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</table>
### Pipeline and Haz. Matls. Safety Admin., DOT

### § 173.2a

#### Classification of a material having more than one hazard.

(a) Classification of a material having more than one hazard. Except as provided in paragraph (c) of this section, a material not specifically listed in the § 172.101 table that meets the definition of more than one hazard class or division as defined in this part, shall be classified according to the highest applicable hazard class of the following hazard classes, which are listed in descending order of hazard:

1. Class 7 (radioactive materials, other than limited quantities).
2. Division 2.3 (poisonous gases).
3. Division 2.1 (flammable gases).
4. Division 2.2 (nonflammable gases).
5. Division 6.1 (poisonous liquids), Packing Group I, poisonous-by-inhalation only.
6. A material that meets the definition of a pyrophoric material in § 173.124(b)(1) of this subchapter (Division 4.2).

(b) Precedence of hazard table for Classes 3 and 8 and Divisions 4.1, 4.2, 4.3, 5.1 and 6.1. The following table ranks those materials that meet the definition of Classes 3 and 8 and Divisions 4.1, 4.2, 4.3, 5.1 and 6.1.

#### Precedence of Hazard Table

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<th>Hazard class or division and packing group</th>
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<th>5.1 II</th>
<th>5.1 III</th>
<th>6.1, I</th>
<th>6.1, II</th>
<th>6.1, III</th>
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<th>6.1, II oral</th>
<th>6.1, III oral</th>
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<th>8, II liquid</th>
<th>8, III liquid</th>
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