

NOTICE OF PROPOSED RULEMAKING HEARING BEFORE THE COLORADO SOLID AND HAZARDOUS WASTE COMMISSION

SUBJECT:

For consideration of the amendment of 6 CCR 1007-3, Parts 260, 261, and 264, along with the accompanying Statement of Basis and Purpose, the following will be considered:

Amendment of 6 CCR 1007-3, Parts 260, 261, and 264 - Regulations Pertaining to Hazardous Waste - Modernizing Ignitable Liquids Determinations

These modifications are made pursuant to the authority granted to the Solid and Hazardous Waste Commission in Section 25-15-302(2), C.R.S.

These amendments to Parts 260, 261 and 264 of the Colorado Hazardous Waste Regulations (6 CCR 1007-3) correspond to and provide equivalency with the Environmental Protection Agency (EPA) Modernizing Ignitable Liquids Determinations final rule published in the Federal Register on July 7, 2020 {85 FR 40594-40608}, and which became effective on September 8, 2020.

The federal rule finalized updates to the regulations for the identification of ignitable hazardous waste under the Resource Conservation and Recovery Act (RCRA), and codified existing guidance regarding the definition of aqueous for purposes of 40 CFR 261.21(a)(1). The federal rule also updated cross references to Department of Transportation (DOT) regulations, made certain other conforming amendments and technical corrections to the \$261.21 regulations, and added mercury thermometer alternatives in the air sampling and stack emissions test methods in SW-846 Test Methods 0010, 0011, 0020, 0023A, and 0051.

These amendments are considered to be neither more nor less stringent than the existing provisions, and Colorado is not required to adopt these provisions. However, the Division believes that the adoption of these amendments will help provide greater clarity to hazardous waste identification, provide flexibility in testing requirements, and enhance protection of human health and the environment.

Any information that is incorporated by reference in these proposed rules is available for review at the Colorado Department of Public Health and Environment, Hazardous Materials and Waste Management Division and any state publications depository library.

Pursuant to Section 24-4-103(3), C.R.S., a notice of proposed rulemaking was submitted to the Secretary of State on April 15, 2021. Copies of the proposed rulemaking will be mailed to all persons on the Solid and Hazardous Waste Commission's mailing list on or before the date



of publication of the notice of proposed rulemaking in the Colorado Register on April 25, 2021.

The proposed rulemaking materials may also be accessed at <u>https://cdphe.colorado.gov/shwc-rulemaking-hearings</u>

WRITTEN TESTIMONY

Any alternative proposals for rules or written comments relating to the proposed amendment of the regulation will be considered. The Solid and Hazardous Waste Commission will accept written testimony and materials regarding the proposed alternatives. The commission strongly encourages interested parties to submit written testimony or materials to the Solid and Hazardous Waste Commission Office, via email to

<u>cdphe.hwcrequests@state.co.us</u> by Wednesday, May 5, 2021, at 11:59 p.m. Written materials submitted in advance will be distributed to the commission members prior to the day of the hearing. Submittal of written testimony and materials on the day of the hearing will be accepted, but is strongly discouraged.

HEARING SCHEDULE:

DATE:	Tuesday, May 18, 2021
TIME:	9:00 a.m.
PLACE:	Due to social distancing requirements due to COVID-19,
	the meeting will be held <u>online only</u> at:

https://us02web.zoom.us/meeting/register/tZYlfuuqqz4vHtw50-wjtUPFg-NjY4axkHiA

Oral testimony at the hearing regarding the proposed amendments may be limited.

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Brandy Valdez Murphy, Administrator



1 2 3	DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
5 4 5 6	Solid and Hazardous Waste Commission/Hazardous Materials and Waste Management Division
7 8 9	6 CCR 1007-3
10 11 12	HAZARDOUS WASTE
13 14 15 16	Modernizing Ignitable Liquids Determinations
17 18	1) Section 260.11 is revised to read as follows:
19 20 21 22 23 24 25 26 27 28 29 30 31 32	§ 260.11 Incorporation by reference. (a)(1) When used in parts 260 through 268 and part 100 of these regulations, the following publications are incorporated by reference. Copies of <u>all approved</u> materials incorporated by reference in the federal regulations <u>are available for inspection at the OLEM Docket in the Environmental Protection Agency</u> <u>Docket Center (EPA/DC), West William Jefferson Clinton Bldg., Rm. 3334, 1301 Constitution Ave. NW,</u> <u>Washington, DC. may be inspected at the Library, U.S. Environmental Protection Agency, 1200</u> Pennsylvania Ave., NW. (3403T), Washington, DC 20460, libraryhq@epa.gov; or at the National Archives and Records Administration (NARA). The EPA/DC Public Reading Room hours of operation are 8:30 a.m. to 4:30 p.m., Monday through Friday, excluding legal holidays. The telephone number of the EPA/DC Public Reading Room is (202) 566-1744, and the telephone number for the OLEM Docket is (202) 566-0270. These approved materials are also available for inspection at the National Archives and Records Administration (NARA0. For information on the availability of this material at NARA, email fedreg.legal@nara.gov_call 202-741-6030, or go to: www.archives.gov/federal-register/cfr/ibr-locations.html.http://www.archives.gov/federal_register/code_of_federal_regulations/ibr_locations.html.
33 34 35 36 37	(2) All cited references are for that reference that is valid on the particular date of adoption of the pertinent section of these regulations and do not include later amendments or editions of the incorporated material.(3) Materials or regulations incorporated by reference in these regulations are available for examination at the Colorado Department of Public Health and Environment and at the state
38 39 40 41 42 43	publications depository libraries. Information concerning all materials or regulations incorporated by reference in 6 CCR 1007-3 may be obtained by contacting: Regulatory and Program Authorization Coordinator Colorado Department of Public Health and Environment Hazardous Materials & Waste Management Division 4300 Cherry Creek Drive South

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- 44 Denver, CO 80246-1530
- 45 (4) Federal statutes and regulations that are cited in parts 260 through 268 and part 100 of these 46 regulations that are not specifically adopted by reference shall be used as guidance in interpreting the
- 47 Federal regulations in 40 CFR Parts 260 through 266, 268, 270 and 124.
- 48 (b) American Petroleum Institute (API). The following materials are available from the American
- 49 Petroleum Institute (API), 1220 L Street, Northwest, Washington, DC 20005, (855) 999-9870,
- 50 <u>www.api.org.</u>
- 51 (1) API Publication 2517, Third Edition, February 1989, "Evaporative Loss from External Floating 52 Roof Tanks," IBR approved for § 265.1084.
- 53 (2) [Reserved]
- 54 (bc) <u>ASTM International (ASTM).</u> The following materials are available for purchase from the American 55 <u>Society for Testing and Materials</u>ASTM International (ASTM), 100 Barr Harbor Drive, P.O. Box C700,
- 56 West Conshohocken, PA 19428-2959, (877) 909-ASTM, www.astm.org.
- 57 (1) ASTM D-93-79 or D-93-80, "Standard Test Methods for Flash Point by Pensky-Martens Closed
 58 Cup Tester," IBR approved for § 261.21(a).
- 59 (2) ASTM D-93-80, "Standard Test Methods for Flash Point by Pensky-Martens Closed Cup Tester,"
 60 IBR approved for § 261.21(a).
- 61 (23) ASTM D-1946-82, "Standard Method for Analysis of Reformed Gas by Gas Chromatography,"
 62 IBR approved for §§ 264.1033, and 265.1033.
- 63 (34) ASTM D-2267-88, "Standard Test Method for Aromatics in Light Naphthas and Aviation
 64 Gasolines by Gas Chromatography," IBR approved for § 264.1063.
- (4<u>5</u>) ASTM D-2382-83, "Standard Test Method for Heat of Combustion of Hydrocarbon Fuels by
 Bomb Calorimeter (High-Precision Method)," IBR approved for §§ 264.1033, and 265.1033.
- 67 (56) ASTM D-2879-92, "Standard Test Method for Vapor Pressure--Temperature Relationship and
 68 Initial Decomposition Temperature of Liquids by Isoteniscope," IBR approved for § 265.1084.
- 69 (67) ASTM D-3278-78, "Standard Test Methods for Flash Point for Liquids by Setaflash Closed
 70 Tester," IBR approved for § 261.21(a).
- (8) ASTM D8174–18 "Standard Test Method for Finite Flash Point Determination of Liquid Wastes by
 Small Scale Closed Cup Tester." Approved March 15, 2018, IBR approved for § 261.21(a).
- 73 (9) ASTM D8175–18 "Standard Test Method for Finite Flash Point Determination of Liquid Wastes by
 74 Pensky-Martens Closed Cup Tester." Approved March 15, 2018, IBR approved for § 261.21(a).
- (75 (710) ASTM E-168-88, "Standard Practices for General Techniques of Infrared Quantitative Analysis,"
 76 IBR approved for § 264.1063.
- 77 (811) ASTM E-169-87, "Standard Practices for General Techniques of Ultraviolet-Visible Quantitative
 78 Analysis," IBR approved for § 264.1063.
- 79 (912) ASTM E-260-85, "Standard Practice for Packed Column Gas Chromatography," IBR approved
 80 for § 264.1063.

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81 82	(13) ASTM E681–85 "Standard Test Method for Concentration Limits of Flammability of Chemicals (Vapors and gases)," Approved November 14, 1985, IBR approved for § 261.21(a).
83	(<u>1</u> 0) ASTM E 926-88, "Standard Test Methods for Preparing Refuse-Derived Fuel (RDF) Samples for
84	Analyses of Metals," Test Method CBomb, Acid Digestion Method.
85	(ed) <u>Environmental Protection Agency (EPA)</u> . The following materials are available for purchase <u>Materials</u>
86	<u>cited in paragraphs (d)(1) through (d)(3) is available</u> from: the National Technical Information Service,
87	5285 Port Royal Road, Springfield, VA 22161; or for purchase from the Superintendent of Documents,
88	U.S. Government Printing Office, Washington, DC 20402, (202) 512-1800; <u>EPA's National Service Center</u>
89	for Environmental Publications at https://www.epa.gov/nscep. Material cited in paragraph (d)(4) of this
90	section is available at https://www.epa.gov/hw-sw846.
91	(1) "APTI Course 415: Control of Gaseous Emissions," EPA Publication EPA-450/2-81-005,
92	December 1981, IBR approved for §§ 264.1035, 265.1035, <u>and 100.41 (40 CFR §</u> 270.24, 270.25 <u>)</u> .
93	(2) Method 1664, Revision A, n-Hexane Extractable Material (HEM; Oil and Grease) and Silica Gel
94	Treated n-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry,
95	PB99-121949, IBR approved for Part 261, Appendix IX.
96	<u>(i) Revision A, EPA–821–R–98–002, February 1999, IBR approved for Appendix IX to 40 CFR</u>
97	<u>Part 261.</u>
98	<u>(ii) Revision B, EPA–821–R–10–001, February 2010, IBR approved for Appendix IX to 40 CFR</u>
99	<u>Part 261.</u>
100	(3) "Screening Procedures for Estimating the Air Quality Impact of Stationary Sources, Revised",
101	October 1992, EPA Publication No. EPA–450/R–92–019, IBR approved for Appendix IX to § 264.348
102	(40 CFR Part 266, Appendix IX).
103 104 105 106 107 108	(34) The following methods as published in the test methods compendium known as "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, Third Edition. A suffix of "A" in the method number indicates revision one (the method has been revised once). A suffix of "B" in the method number indicates revision two (the method has been revised twice). A suffix of "C" in the method number indicates revision three (the method has been revised twice). A suffix of "C" in the method number indicates revision three (the method has been revised three times). A suffix of "D" in the method number indicates revision four (the method has been revised four times).
109	(i) Method 0010, <u>Modified Method 5 Sampling Train, Revision 1, dated August 2018,dated</u>
110	September 1986 and in the Basic Manual, IBR approved for <u>40 CFR P</u> art 261, Appendix IX.
111	(ii) (viii) Method 0011, <u>Sampling for Selected Aldehyde and Ketone Emissions from Stationary</u>
112	<u>Sources, Revision 1, dated August 2018, dated December 1996 and in Update III,</u> IBR approved
113	for <u>40 CFR</u> Part 261, Appendix IX, and <u>Appendix IX to § 264.348 (40 CFR</u> Part 266, Appendix
114	IX <u>)</u> .
115 116 117	(ii) (iii) Method 0020, <u>Source Assessment Sampling System (SASS), Revision 1, dated August 2018, dated September 1986 and in the Basic Manual,</u> IBR approved for <u>40 CFR</u> Part 261, Appendix IX.
118	<u>(iv) (ix)</u> Method 0023A, <u>Sampling Method for Polychlorinated Dibenzo-p-Dioxins and</u>
119	<u>Polychlorinated Dibenzofuran Emissions from Stationary Sources, Revision 2, dated August</u>
120	<u>2018, dated December 1996 and in Update III,</u> IBR approved for <u>40 CFR</u> Part 261, Appendix IX,
121	<u>Appendix IX to § 264.348 (40 CFR Part 266, Appendix IX)</u> , and <u>§ 264.342(b) (40 CFR § 266.104)</u> .

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122 (iii) (v) Method 0030, Volatile Organic Sampling Train, dated September 1986 and in the Basic 123 Manual, IBR approved for 40 CFR Part 261, Appendix IX. 124 (vi) (x) Method 0031, Sampling Method for Volatile Organic Compounds (SMVOC), dated December 1996 and in Update III, IBR approved for 40 CFR Part 261, Appendix IX. 125 126 (vii) (xi) Method 0040, Sampling of Principal Organic Hazardous Constituents from Combustion 127 Sources Using Tedlar® Bags, dated December 1996 and in Update III, IBR approved for 40 CFR Part 261, Appendix IX. 128 129 (viii) (xiii) Method 0050, Isokinetic HCI/CI₂ Emission Sampling Train, dated December 1996 and in 130 Update III, IBR approved for 40 CFR Part 261, Appendix IX, Appendix IX to § 264,348 (40 CFR 131 Part 266, Appendix IX), and <u>§ 264.345 (40 CFR § 266.107)</u>. 132 (ix) (xiii) Method 0051, Midget Impinger HCI/Cl₂ Emission Sampling Train, Revision 1, dated 133 August 2018, dated December 1996 and in Update III, IBR approved for 40 CFR Part 261, 134 Appendix IX, Appendix IX to § 264.348 (40 CFR Part 266, Appendix IX), and § 264,345 (40 CFR 135 § 266.107). 136 (x) (xiv) Method 0060, Determination of Metals in Stack Emissions, dated December 1996 and in 137 Update III, IBR approved for 40 CFR Part 261, Appendix IX, § 264,344 (40 CFR § 266.106), and 138 Appendix IX to § 264.348 (40 CFR Part 266, Appendix IX). 139 (xi) (xv) Method 0061, Determination of Hexavalent Chromium Emissions from Stationary 140 Sources, dated December 1996 and in Update III, IBR approved for 40 CFR Part 261, Appendix 141 IX, § 264.344(40 CFR § 266.106), and Appendix IX to § 264.348 (40 CFR Part 266, Appendix IX). 142 (xii) (xvii) Method 1010AB, Test Methods for Flash Point by Pensky-Martens Closed-Cup Tester, 143 dated December 2018, dated November 2004 and in Update IIIB, IBR approved for § 261.21 and 144 40 CFR Part 261, Appendix IX. 145 (xiii) (xviii) Method 1020BC, Standard Test Methods for Flash Point by Setaflash (Small Scale) 146 Closed-Cup Apparatus, dated December 2018, dated November 2004 and in Update IIIB, IBR 147 approved for § 261.21 and 40 CFR Part 261, Appendix IX. (xiv) (xix) Method 1110A, Corrosivity Toward Steel, dated November 2004 and in Update IIIB, 148 149 IBR approved for § 261.22 and 40 CFR Part 261, Appendix IX. 150 (xv) (xx) Method 1310B, Extraction Procedure (EP) Toxicity Test Method and Structural Integrity 151 Test, dated November 2004 and in Update IIIB, IBR approved for <u>40 CFR</u> Part 261, Appendix IX. 152 (xvi) (v) Method 1311, Toxicity Characteristic Leaching Procedure, dated September 1992 and in 153 Update I, IBR approved for 40 CFR Part 261, Appendix IX, and §§ 261.24, 268.7, 268.40. 154 (xvii) (vii) Hethod 1312, Synthetic Precipitation Leaching Procedure, dated September 1994 and 155 in Update III, IBR approved for Part 261, Appendix IX. 156 (xviii) (iv) Method 1320, Multiple Extraction Procedure, dated September 1986 and in the Basic 157 Manual, IBR approved for <u>40 CFR</u> Part 261, Appendix IX. 158 (xix) (vi) Method 1330A, Extraction Procedure for Oily Wastes, dated September 1992 and in 159 Update I, IBR approved for 40 CFR Part 261, Appendix IX.

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160 161	(v) Method 1311, dated September 1992 and in Update I, IBR approved for Part 261, Appendix IX, and <u>§§</u> 261.24, 268.7, 268.40.
162 163	(vi) Method 1330A, dated September 1992 and in Update I, IBR approved for Part 261, Appendix IX.
164 165	(vii) Method 1312 dated September 1994 and in Update II, IBR approved for Part 261, Appendix IX.
166 167	(viii) Method 0011, dated December 1996 and in Update III, IBR approved for Part 261, Appendix IX, and Part 266, Appendix IX.
168 169	(ix) Method 0023A, dated December 1996 and in Update III, IBR approved for Part 261, Appendix IX, Part 266, Appendix IX, and § 266.104.
170 171	(x) Method 0031, dated December 1996 and in Update III, IBR approved for Part 261, Appendix IX.
172 173	(xi) Method 0040, dated December 1996 and in Update III, IBR approved for Part 261, Appendix IX.
174 175	(xii) Method 0050, dated December 1996 and in Update III, IBR approved for Part 261, Appendix IX, Part 266, Appendix IX, and § 266.107.
176 177	(xiii) Method 0051, dated December 1996 and in Update III, IBR approved for Part 261, Appendix IX, Part 266, Appendix IX, and § 266.107.
178 179	(xiv) Method 0060, dated December 1996 and in Update III, IBR approved for Part 261, Appendix IX, § 266.106, and Part 266, Appendix IX.
180 181	(xv) Method 0061, dated December 1996 and in Update III, IBR approved for Part 261, Appendix IX, § 266.106, and Part 266, Appendix IX.
182	(xvi) Method 9071B, dated April 1998 and in Update IIIA, IBR approved for Part 261, Appendix IX.
183 184	(xvii) Method 1010A, dated November 2004 and in Update IIIB, IBR approved for Part 261, Appendix IX.
185 186	(xviii) Method 1020B, dated November 2004 and in Update IIIB, IBR approved for Part 261, Appendix IX.
187 188	(xix) Method 1110A, dated November 2004 and in Update IIIB, IBR approved for § 261.22 and Part 261, Appendix IX.
189 190	(xx) Method 1310B, dated November 2004 and in Update IIIB, IBR approved for Part 261, Appendix IX.
191 192	(xx) (xxi) Method 9010C, <u>Total and Amenable Cyanide: Distillation,</u> dated November 2004 and in Update IIIB, IBR approved for <u>40 CFR</u> Part 261, Appendix IX and §§ 268.40, 268.44, 268.48.
193 194 195	(xxi) (xxii) Method 9012B, <u>Total and Amenable Cyanide (Automated Colorimetric, with Off-Line</u> <u>Distillation)</u> , dated November 2004 and in Update IIIB, IBR approved for <u>40 CFR</u> Part 261, Appendix IX and §§ 268.40, 268.44, 268.48.

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- 196 (<u>xxii) (xxiii)</u> Method 9040C, <u>pH Electrometric Measurement</u>, dated November 2004 and in Update 197 IIIB, IBR approved for 40 CFR Part 261, Appendix IX and § 261.22.
- 198(xxiii) (xxiv)Method 9045D, Soil and Waste pH,
dated November 2004 and in Update IIIB, IBR
approved for 40 CFR Part 261, Appendix IX.
- 200
 (xxiv) (xxv)
 Method 9060A, Total Organic Carbon, dated November 2004 and in Update IIIB, IBR

 201
 approved for <u>40 CFR</u> Part 261, Appendix IX, and §§ 264.1034, 264.1063, 265.1034, 265.1063.
- 202(xxv) (xxvi)Method 9070A, n-Hexane Extractable material (HEM) for Aqueous Samples, dated203November 2004 and in Update IIIB, IBR approved for <u>40 CFR</u> Part 261, Appendix IX.
- 204(xxvi) (xvi)Method 9071B, n-Hexane Extractable Material (HEM) for Sludge, Sediment, and Solid205Samples, dated April 1998 and in Update IIIA, IBR approved for 40 CFR Part 261, Appendix IX.
- 206(xxvii) Method 9095B, Paint Filter Liquids Test, dated November 2004 and in Update IIIB, IBR207approved, <u>40 CFR</u> Part 261, Appendix IX, and §§ 264.190, 264.314, 265.190, 265.314, 265.1081,208268.32, and 40 CFR § 267.202.

(de) <u>National Fire Protection Association (NFPA).</u> The following materials are available for purchase from
 the National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101
 (800) 344-3555, www.nfpa.org.

- (1) <u>NFPA 30,</u> "Flammable and Combustible Liquids Code," (NFPA 30), 1977 <u>edition or 1981</u>, IBR approved for §§ 262.16(b), 264.198(b), and 265.198(b), and 40 CFR § 267.202.
- (2) [Reserved]NFPA 30, "Flammable and Combustible Liquids Code," 1981 edition, IBR approved for
 §§ 262.16(b), 264.198(b), and 265.198(b) and 40 CFR § 267.202.

(gf) Organization for Economic Cooperation and Development (OECD). The following materials are
 available for purchase from the Organization for Economic Cooperation and Development, Environment
 Directorate, 2 rue Andre Pascal, F-75775 Paris Cedex 16, France owww.oecd-ilibrary.org/.

- (1) Guidance Manual for the Control of Transboundary Movements of Recoverable Wastes, copyright
 2009, Annex B: OECD Consolidated List of Wastes Subject to the Green Control Procedure and
 Annex C: OECD Consolidated List of Wastes Subject to the Amber Control Procedure, IBR approved
 for §§ 262.82(a), 262.83(b), (d), and (g), and 262.84(b) and (d) of these regulations.
- 223 (2) [Reserved]
- 224
- 225226 2) Section 261.21 is revised to read as follows:
- 227228 § 261.21 Characteristic of ignitability.
- (a) A solid waste exhibits the characteristic of ignitability if a representative sample of the waste has anyof the following properties:
- 231 (1) It is a liquid, other than an aqueous solution containing less than 24 percent alcohol by volume and
- 232 <u>at least 50 percent water by weight</u>, and that has a flash point less than 60°C (140° F), as determined
- by <u>using one of the following ASTM standards: a Pensky Martens Closed Cup Tester, using the test</u>
- 234 method specified in ASTM Standard D-93-79, or <u>ASTM D-93-80, D3278-78, D8174-18, or D8175-18</u>
- 235 as specified in SW-846 Test Methods 1010(B) or 1020(C) (all incorporated by reference, see §

Modernizing Ignitable Liquids Determinations May 18, 2021 S&HW Commission Hearing Page 6 of 10 236 260.11)., or a Setaflash Closed Cup Tester, using the test method specified in ASTM standard D 237 3278-78 (incorporated by reference, see § 260.11).

(2) It is not a liquid and is capable, under standard temperature and pressure, of causing fire through
 friction, absorption of moisture, or spontaneous chemical changes and, when ignited, burns so
 vigorously and persistently that it creates a hazard.

241 (3) It is an ignitable compressed gas.

(i) The term "compressed gas" shall designate any material or mixture having in the container an
absolute pressure exceeding 40 p.s.i. at 70°F or, regardless of the pressure at 70°F, having an
absolute pressure exceeding 104 p.s.i. at 130°F; or any liquid flammable material having a vapor
pressure exceeding 40 p.s.i. absolute at 100°F as determined by ASTM Test D-323.

246 (ii) A compressed gas shall be characterized as ignitable if any one of the following occurs:

(A) Either a mixture of 13 percent or less (by volume) with air forms a flammable mixture or the
flammable range with air is wider than 12 percent regardless of the lower limit. These limits shall
be determined at atmospheric temperature and pressure. The method of sampling and test
procedure shall be <u>the ASTM E 681-85 (incorporated by reference, see § 260.11), or other</u>
<u>equivalent methods</u>
<u>equivalent methods</u>
<u>Associate Administrator,</u> Pipeline and Hazardous Materials <u>Safety Administration</u>
U.S. Department of Transportation (see Note 2).

- (B) <u>It is determined to be flammable or extremely flammable using 49 CFR § 173.115(I).</u> Using
 the Bureau of Explosives' Flame Projection Apparatus (see Note 1), the flame projects more than
 18 inches beyond the ignition source with valve opened fully, or, the flame flashes back and
 burns at the valve with any degree of valve opening.
- (C) Using the Bureau of Explosives' Open Drum Apparatus (see Note 1), there is any significant propagation of flame away from the ignition source.
- (D) Using the Bureau of Explosives' Closed Drum Apparatus (see Note 1), there is any explosion
 of the vapor-air mixture in the drum.
- (4) It is an oxidizer. An oxidizer for the purpose of this subchapter is a substance such as a chlorate,
 permanganate, inorganic peroxide, or a nitrate, that yields oxygen readily to stimulate the combustion
 of organic matter (see Note 4).
- (i) An organic compound containing the bivalent -O-O- structure and which may be considered a
 derivative of hydrogen peroxide where one or more of the hydrogen atoms have been replaced by
 organic radicals must be classed as an organic peroxide unless:
- (A) The material meets the definition of a Class A Division 1.1, 1.2, or 1.3 explosive, or a Class B
 explosive, as defined in § 261.23(a)(8), in which case it must be classed as an explosive,
- (B) The material is forbidden to be offered for transportation according to 49 CFR 172.101 and 49
 CFR 173.21,
- (C) It is determined that the predominant hazard of the material containing an organic peroxide isother than that of an organic peroxide, or

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274 275 276	(D) According to data on file with the Pipeline and Hazardous Materials Safety Administration in the U.S. Department of Transportation (see Note 3) , it has been determined that the material does not present a hazard in transportation.
277 278	(b) A solid waste that exhibits the characteristic of ignitability has the EPA Hazardous Waste Number of D001.
279 280	Note 1 : A description of the Bureau of Explosives' Flame Projection Apparatus, Open Drum Apparatus, Closed Drum Apparatus, and method of tests may be procured from the Bureau of Explosives.
281 282 283 284 285	Note 2 : As part of a U.S. Department of Transportation (DOT) reorganization, the Office of Hazardous Materials Technology (OHMT), which was the office listed in the 1980 publication of 49 CFR 173.300 for the purposes of approving sampling and test procedures for a flammable gas, ceased operations on February 20, 2005. OHMT programs have moved to the Pipeline and Hazardous Materials Safety Administration (PHMSA) in the DOT.
286 287 288 289 290	Note 3 : As part of a U.S. Department of Transportation (DOT) reorganization, the Research and Special Programs Administration (RSPA), which was the office listed in the 1980 publication of 49 CFR 173.151a for the purposes of determining that a material does not present a hazard in transport, ceased operations on February 20, 2005. RSPA programs have moved to the Pipeline and Hazardous Materials Safety Administration (PHMSA) in the DOT.
291 292 293	Note 4 : The DOT regulatory definition of an oxidizer was contained in § 173.151 of 49 CFR, and the definition of an organic peroxide was contained in paragraph 173.151a. An organic peroxide is a type of oxidizer.
294 295 296 297 298	3) The following paragraph in Section 5.0 (Hazardous Waste Combustion Air Quality Screening Procedure) of Appendix IX to Section 264.348 is revised to read as follows:
299 300	Section 5.0 Hazardous Waste Combustion Air Quality Screening Procedure
301	*****
302 303 304 305 306 307 308 309 310 311	If any of these criteria are met or the Director determines that this procedure is not appropriate, then detailed site-specific modeling or modeling using the "Screening Procedures for Estimating the Air Quality Impact of Stationary Sources, <u>Revised</u> ", <u>October 1992</u> , EPA <u>Publication No.</u> 450/ <u>R-92-0194-88-010</u> , Office of Air Quality Planning and Standards, <u>August 1988</u> , is required. Detailed site-specific dispersion modeling must conform to the EPA "Guidance on Air Quality Models (Revised)", EPA 450/2-78-027R, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina, July 1986. This document provides guidance on both the proper selection and regulatory application of air quality models.
312 313 314	4) Section 8.97 (Statement of Basis for the Rulemaking Hearing of May 18, 2021) is added to Part 8 of the Regulations to read as follows:
315 316	
317 318	Statement of Basis and Purpose Rulemaking Hearing of May 18, 2021

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320 **8.97 Basis and Purpose**. 321

These amendments to 6 CCR 1007-3, Parts 260, 261 and 264 are made pursuant to the authority granted to the Solid and Hazardous Waste Commission in § 25-15-302(2), C.R.S.

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325 Modernizing Ignitable Liquids Determinations

These amendments to Parts 260, 261 and 264 of the Colorado Hazardous Waste Regulations (6 CCR
1007-3) correspond to and provide equivalency with the Environmental Protection Agency (EPA)
Modernizing Ignitable Liquids Determinations final rule published in the Federal Register on July 7, 2020
{85 FR 40594-40608}, and which became effective on September 8, 2020.

The federal rule finalized updates to the regulations for the identification of ignitable hazardous waste under the Resource Conservation and Recovery Act (RCRA), and codified existing guidance regarding the definition of aqueous for purposes of 40 CFR 261.21(a)(1). The federal rule also updated cross references to Department of Transportation (DOT) regulations, made certain other conforming amendments and technical corrections to the § 261.21 regulations, and added mercury thermometer alternatives in the air sampling and stack emissions test methods in SW-846 Test Methods 0010, 0011, 0020, 0023A, and 0051.

The specific amendments being adopted as part of this rulemaking include the following: 341

1) Section 260.11 (Incorporation by reference) – is being amended by:

A) revising the section to list the test methods identified in § 260.11 in alphabetical and numerical order, and to update the information regarding the availability of the incorporated-by-reference materials.

347 348 B) adding SW–846 Method 1010B, SW– 846 Method 1020C, ASTM D8174–18, ASTM D8175– 349 18. and ASTM E681-85 to the list of test methods incorporated by reference in § 261.11. SW-350 846 Method 1010B and SW-846 Method 1020C list the required methods to determine flashpoint 351 for ignitable hazardous waste. SW-846 Method 1010B lists the Pensky-Martens flash point methods, which are ASTM Standards D93-79, D93-80, and D8175-18. SW-846 Method 1020C 352 lists the Setaflash (small-scale) closed cup flash point methods, which are the ASTM Standards 353 354 D3278–78 and D8174–18. ASTM D8174–18 is a test method to determine the flash point of liquid 355 wastes using a small-scale (Setaflash) apparatus. ASTM D8175-18 is a test method used to 356 determine the flash point of liquid wastes using a Pensky-Martens apparatus. ASTM E681-85 is 357 a test method used to determine the upper and lower concentration limits of flammability for 358 chemicals having sufficient vapor pressure to form flammable mixtures with air. 359

C) updating the incorporation by reference listings for SW-846 Methods 0010, 0011, 0020, 0023A
 and 0051. These test methods were updated to allow the use of non-mercury thermometers in
 these air sampling and stack emission test methods.

- D) deleting test method ASTM E 926-88, "Standard Test Methods for Preparing Refuse-Derived
 Fuel (RDF) Samples for Analyses of Metals," Test Method C--Bomb, Acid Digestion Method.
- 367 2) Section 261.21 (Characteristic of ignitability) is being amended by:

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369 370 371 372	A) revising paragraph (a)(1) to update the test methods required for measuring the flash point of a liquid waste when determining if that waste is an ignitable waste. The references to Methods 1010B and 1020C are updated to include ASTM standards D8174-18 and D8175-18.
372 373 374	B) revising paragraph (a)(1) to define aqueous as "at least 50 percent water by weight".
374 375 376 377 378 379	C) revising paragraph (a)(3)(ii)(A) to specify the ASTM standard E 681–85 as the approved test for determining whether any waste that is a compressed gas exhibits the RCRA ignitability characteristic, and to remove reference to the Bureau of Explosives as an approving agency for sampling and test methods.
379 380 381 382 383	D) revising paragraph (a)(3)(ii)(B) to update the definition of ignitable compressed gas within paragraph(a)(3)(ii), removing references to Bureau of Explosives test methods, and mirroring the definition and testing that DOT now requires.
384 385	E) deleting paragraphs (a)(3)(ii)(C) and (D).
385 386 387 388 389	F) revising paragraph (a)(4)(i)(A) to replace the currently referenced "Class A explosive or a Class B explosive" with "Division 1.1, 1.2, or 1.3 explosive" to be consistent with DOT's revised classification system for explosives.
390 391	G) deleting the four notes at the end of § 261.21, which are outdated and no longer necessary.
391 392 393 394 395 396	These amendments are considered to be neither more nor less stringent than the existing provisions, and Colorado is not required to adopt these provisions. However, the Division believes that the adoption of these amendments will help provide greater clarity to hazardous waste identification, provide flexibility in testing requirements, and enhance protection of human health and the environment.
396 397 398	This Basis and Purpose incorporates by reference the applicable portions of the preamble language for the EPA regulations as published in the Federal Register at 85 FR 40594-40608, July 7, 2020.