

§ 799.5025 Testing consent orders for mixtures without Chemical Abstracts Service Registry Numbers.

This section sets forth a list of mixtures (with no Chemical Abstracts Service Registry Numbers) which are

the subject of testing consent orders adopted under 40 CFR part 790. Listed below are the mixtures which are the subject of these orders and the FEDERAL REGISTER citations providing public notice of such orders.

Mixture/substance (CAS No.)	Required test	FR citation
Di(heptyl, nonyl, undecyl) phthalate (D711P) as a mixture of the following six substances:		
(1) diheptyl phthalate (branched and linear isomers), CAS No. 68515-44-6	Environmental effects	January 9, 1989.
(2) dinonyl phthalate (branched and linear isomers), CAS No. 68515-45-7	Do	Do
(3) di(heptyl, nonyl) phthalate (branched and linear isomers), CAS No. 111381-89-6	Do	Do
(4) diundecyl phthalate (branched and linear isomers), CAS No. 3648-20-2	Do	Do
(5) di(heptyl, undecyl) phthalate (branched and linear isomers), CAS No., 111381-90-9	Do	Do
(6) di(nonyl, undecyl) phthalate (branched and linear isomers), CAS No. 111381-91-0	Do	Do

[55 FR 3059, Jan. 30, 1990]

Subpart D—Multichemical Test Rules

§ 799.5050 Multi-test requirements for specific chemical substances.

(a) *General testing provisions*—(1) *Identification of test substance*. Table 1 in paragraph (a)(5) of this section identifies those chemical substances that shall be tested in accordance with this section. The purity of each test substance shall be 99 percent or greater, unless otherwise specified in Table 1.

(2) *Persons required to submit study plans, conduct tests, and submit data*. All persons who manufacture (including import) or process or intend to manufacture or process, including persons who manufacture or process or intend to manufacture or process one or more of the substances listed in Table 1 in paragraph (a)(5) of this section as a by-product, or who import or intend to import products which contain one or more of the substances listed in Table 1 in paragraph (a)(5) of this section after the effective date specified in Table 1 under paragraph (a)(5) of this section to the end of the reimbursement period, shall submit letters of intent to conduct testing, submit study plans, conduct tests and submit data, or submit exemption applications, as specified in this section, subpart A of

this part, and parts 790 and 792 of this chapter for single-phase rulemaking. Persons who manufacture, import, or process one or more of the substances listed in Table 1 in paragraph (a)(5) of this section only as an impurity are not subject to these requirements.

(3) *Applicability of test guidelines*. The guidelines and other test methods cited in Table 1 under paragraph (a)(5) of this section are referenced here as they exist on the effective date listed in Table 1 for that specific test.

(4) *Reporting requirements*. All testing requirements in this section are subject to the submission of interim progress reports every 6 months beginning 6 months after the effective date for that specific test listed in Table 1 under paragraph (a)(5) of this section. The date for the submission of final reports is specified as the number of months after the effective date for the specific test listed in Table 1 under paragraph (a)(5) of this section.

(5) *Designation of specific chemical substances and applicable testing requirements*. The substances identified by name and CAS number in Table 1 of this paragraph shall be tested in accordance with the designated testing requirements and any additional requirements and limitations specified in the following Table 1:

TABLE 1.—CHEMICAL SUBSTANCES SUBJECT TO TESTING UNDER THIS SECTION

CAS No.	Chemical name/types of testing	Basic testing requirements	(b) Additional testing requirements	Limitations and Restrictions	Final Reports Due	Effective dates
60-29-7	Diethyl Ether					
	Health effects testing:					
	Acute neurotoxicity:					
	Functional observational battery	§ 798.6050, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(i), (9)(i).	.....	9 mo.	(9/9/93)
	Motor activity	§ 798.6200, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(i), 2)(i).	.....	9 mo.	(9/9/93)
	Subchronic neurotoxicity:					
	Functional observational battery	§ 798.6050, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	.....	21 mo.	(9/9/93)
67-64-1	Acetone					
	Health effects testing:					
	Acute neurotoxicity:					
	Functional observational battery	§ 798.6050, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(i), 2)(i).	.....	9 mo.	(9/9/93)
	Motor activity	§ 798.6200, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(i), 2)(i).	.....	9 mo.	(9/9/93)
	Subchronic neurotoxicity:					
	Functional observational battery	§ 798.6050, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	.....	21 mo.	(9/9/93)
71-36-3	1-Butanol					
	Health effects testing:					
	Acute neurotoxicity:					
	Functional observational battery	§ 798.6050, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(i), 2)(i).	.....	9 mo.	(9/9/93)
	Motor activity	§ 798.6200, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	.....	21 mo.	(9/9/93)
	Neuropathology	§ 798.6400, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	.....	21 mo.	(9/9/93)
	Schedule-controlled operant behavior	§ 798.6500, except paragraphs (d)(2)(i)(A), (iii)(A), (6), (7) and (8)(v).	(1)(i), (3)(i), (6)(ii), (vi), 2)(i).	.....	30 mo.	(9/9/93)

TABLE 1.—CHEMICAL SUBSTANCES SUBJECT TO TESTING UNDER THIS SECTION—Continued

CAS No.	Chemical name/types of testing	Basic testing requirements	(b) Additional testing requirements	Limitations and Restrictions	Final Reports Due	Effective dates
78-83-1	Motor activity	§ 798.6200, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(i), 2)(i).	.....	9 mo.	(9/9/93)
	Subchronic neurotoxicity: Functional observational battery	§ 798.6050, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	.....	21 mo.	(9/9/93)
	Motor activity	§ 798.6200, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	.....	21 mo.	(9/9/93)
	Neuropathology	§ 798.6400, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	.....	21 mo.	(9/9/93)
	Schedule-controlled operant behavior	§ 798.6500, except paragraphs (d)(2)(i)(A), (iii)(A), (6), (7) and (8)(v).	(1)(i), (3)(i), (6)(ii), (vi), 2)(i).	.....	24 mo.	(9/9/93)
	Isobutyl Alcohol Health effects testing: Acute neurotoxicity: Functional observational battery	§ 798.6050, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(i), 2)(i).	.....	9 mo.	(9/9/93)
	Motor activity	§ 798.6200, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(i), 2)(i).	.....	9 mo.	(9/9/93)
	Subchronic neurotoxicity: Functional observational battery	§ 798.6050, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	.....	21 mo.	(9/9/93)
	Motor activity	§ 798.6200, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	.....	21 mo.	(9/9/93)
	Neuropathology	§ 798.6400, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	.....	21 mo.	(9/9/93)
108-10-1	Schedule-controlled operant behavior	§ 798.6500, except paragraphs (d)(2)(i)(A), (iii)(A), (6), (7) and (8)(v).	(1)(i), (3)(i), (6)(ii), (vi), 2)(i).	.....	36 mo.	(9/9/93)
	Methyl Isobutyl Ketone Health effects testing: Acute neurotoxicity: Functional observational battery	§ 798.6050, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(i), 2)(i).	.....	9 mo.	(9/9/93)
	Motor activity	§ 798.6200, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(i), 2)(i).	.....	9 mo.	(9/9/93)
	Subchronic neurotoxicity: Functional observational battery	§ 798.6050, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	.....	21 mo.	(9/9/93)

TABLE 1.—CHEMICAL SUBSTANCES SUBJECT TO TESTING UNDER THIS SECTION—Continued

CAS No.	Chemical name/types of testing	Basic testing requirements	(b) Additional testing requirements	Limitations and Restrictions	Final Reports Due	Effective dates
109-99-9	Motor activity	§ 798.6200, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	.....	21 mo.	(9/9/93)
	Neuropathology	§ 798.6400, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	.....	21 mo.	(9/9/93)
	Schedule-controlled operant behavior	§ 798.6500, except paragraphs (d)(2)(i)(A), (iii)(A), (6), (7) and (8)(v).	(1)(i), (3)(i), (6)(ii), (vi), 2)(i).	.....	30 mo.	(9/9/93)
	Health effects testing:					
	Acute neurotoxicity:					
	Functional observational battery	§ 798.6050, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(i), 2)(i).	.....	9 mo.	(9/9/93)
	Motor activity	§ 798.6200, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(i), 2)(i).	.....	9 mo.	(9/9/93)
	Subchronic neurotoxicity:					
	Functional observational battery	§ 798.6050, except paragraphs (d)(1)(i), (5) and (6)	(1)(i), (6)(ii), 2)(i).	.....	21 mo.	(9/9/93)
	Motor activity	§ 798.6200, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	.....	21 mo.	(9/9/93)
Neuropathology	§ 798.6400, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	.....	21 mo.	(9/9/93)	
Schedule-controlled operant behavior	§ 798.6500, except paragraphs (d)(2)(i)(A), (iii)(A), (6), (7) and (8)(v).	(1)(i) (3)(i), (6)(ii), (vi), 2)(i).	.....	36 mo.	(9/9/93)	
110-80-5	2-Ethoxyethanol					
	Health effects testing:					
	Acute neurotoxicity:					
	Functional observational battery	§ 798.6050, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(i), 2)(i).	.....	9 mo.	(9/9/93)
	Motor activity	§ 798.6200, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(i), 2)(i).	.....	9 mo.	(9/9/93)
	Subchronic neurotoxicity:					
Functional observational battery	§ 798.6050, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	.....	21 mo.	(9/9/93)	
Motor activity	§ 798.6200, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	.....	21 mo.	(9/9/93)	
Neuropathology	§ 798.6400, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	.....	21 mo.	(9/9/93)	

TABLE 1.—CHEMICAL SUBSTANCES SUBJECT TO TESTING UNDER THIS SECTION—Continued

CAS No.	Chemical name/types of testing	Basic testing requirements	(b) Additional testing requirements	Limitations and Restrictions	Final Reports Due	Effective dates					
123-86-4	Schedule-controlled operant behavior	§ 798.6500, except paragraphs (d)(2)(i)(A), (iii)(A), (6), (7) and (8)(v).	(1)(i), (3)(i), (6)(ii), (vi), 2)(i).	30 mo.	(9/9/93)					
	<i>n</i> -Butyl Acetate										
	Health effects testing:										
	Acute neurotoxicity:										
	Functional observational battery						§ 798.6050, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(i), 2)(i).	9 mo.	(9/9/93)
	Motor activity						§ 798.6200, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(i), 2)(i).	9 mo.	(9/9/93)
	Subchronic neurotoxicity:										
Functional observational battery	§ 798.6050, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	21 mo.	(9/9/93)						
Motor activity	§ 798.6200, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	21 mo.	(9/9/93)						
Neuropathology	§ 798.6400, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	21 mo.	(9/9/93)						
141-78-6	Schedule-controlled operant behavior	§ 798.6500, except paragraphs (d)(2)(i)(A), (iii)(A), (6), (7) and (8)(v).	(1)(i), (3)(i), (6)(ii), (vi), 2)(i).	36 mo.	(9/9/93)					
	Ethyl Acetate										
	Health effects testing:										
	Acute neurotoxicity:										
	Functional observational battery						§ 798.6050, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(i), 2)(i).	9 mo.	(9/9/93)
	Motor activity						§ 798.6200, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(i), 2)(i).	9 mo.	(9/9/93)
	Subchronic neurotoxicity:										
	Functional observational battery						§ 798.6050, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	21 mo.	(9/9/93)
	Motor activity						§ 798.6200, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	21 mo.	(9/9/93)
	Neuropathology						§ 798.6400, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2)(i).	21 mo.	(9/9/93)
Schedule-controlled operant behavior	§ 798.6500, except paragraphs (d)(2)(i)(A), (iii)(A), (6), (7) and (8)(v).	(1)(i), (3)(i), (6)(ii), (vi), 2)(i).	24 mo.	(9/9/93)						
628-63-7	<i>n</i> -Amyl Acetate										
	Health effects testing:										
	Acute neurotoxicity:										

TABLE 1.—CHEMICAL SUBSTANCES SUBJECT TO TESTING UNDER THIS SECTION—Continued

CAS No.	Chemical name/types of testing	Basic testing requirements	(b) Additional testing requirements	Limitations and Restrictions	Final Reports Due	Effective dates
	Functional observational battery	§ 798.6050, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(i), 2(i), (10)(i).	.....	9 mo.	(9/9/93)
	Motor activity	§ 798.6200, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(i), 2(i), (10)(i).	.....	9 mo.	(9/9/93)
	Subchronic neurotoxicity:					
	Functional observational battery	§ 798.6050, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2(i), (10)(i).	.....	21 mo.	(9/9/93)
	Motor activity	§ 798.6200, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2(i), (10)(i).	.....	21 mo.	(9/9/93)
	Neuropathology	§ 798.6400, except paragraphs (d)(1)(i), (5) and (6).	(1)(i), (6)(ii), 2(i), (10)(i).	.....	21 mo.	(9/9/93)
	Schedule-controlled operant behavior	§ 798.6500, except paragraphs (d)(2)(i)(A), (iii)(A), (6), (7) and (8)(v).	(1)(i), (3)(i), (6)(ii), (vi), 2(i), (10)(i).	.....	36 mo.	(9/9/93)

(b) *Additional testing requirements.* In addition to the testing requirements specified in Table 1 under paragraph (a)(5) of this section, the following additional requirements also apply when specified for a particular chemical substance in the “(b) Additional testing requirements” column of Table 1:

(1) *Test species and strains.* If a species other than the one specified is used, the test sponsors shall provide justification/reasoning to the Agency for their selection. Commonly used laboratory strains shall be employed. Commonly used species include the mouse, rabbit and hamster. The test species shall be the:

- (i) Rat.
- (ii) [Reserved]

(2) *Age.* [Reserved]

(3) *Sex.* (i) Approximately equal numbers of male and female animals are required for each dose level and control group. As an alternative, one sex may be tested, if 10 animals per dose and control are used.

- (ii) [Reserved]

(4) *Numbers per dose group.* [Reserved]

(5) *Control groups.* [Reserved]

(6) *Duration and frequency of exposure.*

(i) Animals shall be exposed for 6 hours per day for 1 day.

(ii) Animals shall be exposed for 6 hours per day, 5 days per week for a 90-day period.

(iii)–(v) [Reserved]

(vi) A multiple fixed-interval fixed-ratio schedule shall be used. Fixed-ratio and fixed-interval contingencies shall alternate throughout daily test sessions of at least 60 minutes duration.

(7) *Dose levels and dose selection.* [Reserved]

(8) *Test substance and administration.* [Reserved]

(9) *Route of exposure.* (i) Animals shall be exposed via the inhalation route.

- (ii) [Reserved]

(10) *Percent purity.* (i) A technical grade of *n*-amyl acetate shall be the test substance. The percent *n*-amyl acetate in the test substance shall be representative of the technical grades and shall be selected by the test sponsor. The test sponsor shall specify the percent *n*-amyl acetate in the test substance in the test protocol.

- (ii) [Reserved]

(11) *Observation period.* [Reserved]

(12) *Test Procedures.* [Reserved]

EFFECTIVE DATE NOTE: At 58 FR 40291, July 27, 1993, § 799.5050 was added, effective September 9, 1993. At 59 FR 33186, June 27, 1994, § 799.5050 was stayed until further notice.

§ 799.5055 Hazardous waste constituents subject to testing.

(a) *Identification of test substances.* (1) The table in paragraph (c) of this section identifies those chemical substances that shall be tested in accordance with this section.

(2) Substances of at least 98-percent purity shall be used as the test substances.

(b) *Persons required to submit study plans, conduct tests, and submit data.* All persons who manufacture (including import or manufacture as a byproduct) or process or intend to manufacture or process one or more of the substances in paragraph (c) of this section, other than as an impurity, after July 29, 1988, to the end of the reimbursement period shall submit letters of intent to conduct testing, submit study plans, conduct tests, and submit data, or submit exemption applications for those substances they manufacture or process, or intend to manufacture or process, as specified in this section, subpart A of this part, and parts 790 and 792 of this chapter for single-phase rulemaking.

(c) *Designation of testing.* The substances identified in the following table by name and CAS number shall be tested in accordance with the designated requirements under paragraphs (d) and (e) of this section. The paragraph numbers listed for a substance refer to the specific testing and reporting requirements specified in paragraphs (d) and (e) of this section.

Chemical name	CAS No.	Required testing under paragraphs (d) and (e) of this section
Acetamide, 2-fluoro	640-19-7	(e)(1)
Bis(2-chloroethoxy)methane.	111-91-1	(d)(2), (e)(1)
Bis(2-chloroisopropyl)ether.	108-60-1	(d)(2)
4-Bromobenzyl cyanide ...	16532-79-9	(d)(1), (2), (e)(1)
Bromoform	75-25-2	(d)(2)
4-Chlorobenzo-trichloride	5216-25-1	(e)(1)
2,4-D	94-75-7	(d)(2)
Dibromomethane 74-95-3 (d)(2).		
1,2-Dichlorobenzene	95-50-1	(d)(2)
1,1-Dichloroethane	75-34-3	(d)(2)
1,3-Dichloropropanol	96-23-1	(d)(1), (e)(1)
Dihydrosafrole	94-58-6	(d)(2)
Endrin	72-20-8	(d)(2)

Chemical name	CAS No.	Required testing under paragraphs (d) and (e) of this section
Ethyl methacrylate	97-63-2	(d)(2)
Maleic hydrazide	123-33-1	(d)(1), (2)
Malononitrile	109-77-3	(d)(1), (e)(1)
Methanethiol	74-93-1	(d)(1)
Methyl chloride	74-87-3	(d)(2)
p-Nitrophenol	100-02-7	(e)(1)
Pentachlorobenzene	608-93-5	(d)(2)
Pentachloroethane	76-01-7	(d)(2)
1,2,4,5-Tetrachlorobenzene.	95-94-3	(d)(2)
Trichloromethanethiol	75-70-7	(d)(1), (2), (e)(1)

(d) *Chemical fate testing*—(1) *Soil adsorption*—(i) *Required testing.* A soil adsorption isotherm test shall be conducted with the substances designated in paragraph (c) of this section in accordance with § 796.2750 of this chapter except that the provisions of § 796.2750 (b)(1)(vii)(A) shall not apply to 1,3-Dichloropropanol.

(ii) *Reporting requirements.* The sediment and soil adsorption isotherm tests shall be completed and the final results submitted to EPA within 9 months of the effective date of the final rule except that final results for testing of 1,3-Dichloropropanol and Methanethiol shall be completed and submitted to EPA within 11 months and 15 months, respectively, of the effective date of the final rule.

(2) *Hydrolysis*—(i) *Required testing.* A test of hydrolysis as a function of pH at 25 °C shall be conducted with the substances designated in paragraph (c) of this section in accordance with § 796.3500 of this chapter.

(ii) *Reporting requirements.* The hydrolysis tests with the substances designated in paragraph (c) of this section shall be completed and the final results submitted to EPA within 6 months of the effective date of the final rule except that hydrolysis tests for Dibromomethane, Dihydrosafrole, Ethyl methacrylate, and Methyl chloride shall be completed and the final results submitted to EPA within 12 months of the effective date of the final rule; and hydrolysis tests for 1,2-Dichlorobenzene and 1,2,4,5-Tetrachlorobenzene shall be completed and final results submitted to EPA within 9 months of the effective date of the final rule.

(e) *Health effects testing*—(1) *Sub-chronic toxicity*—(i) *Required test.* (A) An