



Standard Specification for Determination of Child Resistance of Portable Fuel Containers for Consumer Use¹

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1. Scope

1.1 This specification establishes recognized requirements for determining the child resistance of portable gasoline, kerosene, and diesel containers intended for use by consumers. This specification does not cover single-trip prepackaged containers.

1.1.1 “Containers” as defined herein means the receptacle for gasoline, kerosene, or diesel fuel, including its spouts, retrofit spouts, caps and other closure mechanisms and components intended for use by consumers. If any such spout, retrofit spout, cap or other closure mechanism is sold separately for use with or on portable gasoline, kerosene, or diesel receptacles, it must be designed to and function in compliance with this specification when installed on any such receptacle.

1.2 This specification includes gas/oil mixtures as commonly used for two-cycle engines.

1.3 This specification includes single- and multi-compartment containers.

1.4 This standard addresses the effectiveness of the child resistance (CR) device only after closure cycling, but does not address closure effectiveness:

- 1.4.1 When at high or low temperatures,
- 1.4.2 After thermal aging of polymers,
- 1.4.3 After exposure to sunlight,
- 1.4.4 After exposure to intended fuels, and
- 1.4.5 After physical abuses, such as drops or impacts.

NOTE 1—Please see [Appendix X1](#) for additional information on these exemptions.

1.5 The values stated in inch-pound units are to be regarded as standard. The values given in parentheses are mathematical conversions to SI units that are provided for information only and are not considered standard.

1.6 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the*

responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2. Referenced Documents

2.1 ASTM Standards:²

[F852 Specification for Portable Gasoline Containers for Consumer Use](#)

[F976 Specification for Portable Kerosene and Diesel Containers for Consumer Use](#)

2.2 CARB Documents:³

[CP-501 Certification Procedure 501 For Portable Fuel Containers And Spill-Proof Spouts](#)

[TP-501 Test Procedure for Determining Integrity of Spill-Proof Spouts and Spill-Proof Systems](#)

[TP-502 Test Procedure for Determining Diurnal Emissions from Portable Fuel Containers](#)

2.3 Other Document:

[40 CFR 59.623 What must I include in my application?](#)⁴

3. Requirements

3.1 General Requirements:

3.1.1 Containers and closures shall first meet all requirements of Specifications [F852](#) and [F976](#) where applicable, and also those feasible and appropriate test requirements of CARB CP-501, TP-501, TP-502, and EPA Regulation 40 CFR 59.623, capable of being adapted to portable fuel containers having CR closures, including ultraviolet (UV) exposure (5.13.1) and immersion (5.11) tests of the closures.

3.1.2 Containers, components, and closures shall be new with container half full of water for testing in accordance with Sections [4](#) and [5](#).

² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard’s Document Summary page on the ASTM website.

³ Available from California Air Resources Board, 1001 “I” Street, Sacramento, CA 95814, <http://www.arb.ca.gov>.

⁴ Available from U.S. Government Printing Office Superintendent of Documents, 732 N. Capitol St., NW, Mail Stop: SDE, Washington, DC 20401, <http://www.access.gpo.gov>.

¹ This specification is under the jurisdiction of ASTM Committee F15 on Consumer Products and is the direct responsibility of Subcommittee F15.10 on Standards for Flammable Liquid Containers.

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3.1.3 Individual containers, closed with closures shall be tested as described in Section 4 after having been subjected, in sequence, to:

3.1.3.1 Low-temperature exposure at 0°F (−17.8°C) for 8 h.

3.1.3.2 Elevated temperature exposure at 140°F (60°C) for 8 h.

3.1.3.3 Opening and closing of each closure for 250 cycles.

3.1.4 Containers shall then be inverted and inspected visually before and after testing to determine any leakage. Containers indicating leakage shall not be used in further testing.

3.1.5 Containers tested by the methods described in Sections 4 and 5 shall meet the following specifications:

3.1.5.1 Child-resistant effectiveness for each and every closure on a container of not less than 85 %, without a demonstration, and not less than 80 % after a demonstration, of the proper means of opening when 200 children are tested per closure.

3.1.5.2 *Senior Adult Test*—Containers shall have a senior adult-use effectiveness (SAUE) of not less than 90 % for the senior adult panel test of Section 5 for all closures of the container.

4. Test Procedure

4.1 General:

4.1.1 For testing in accordance with Section 4, containers with multiple closures shall have each closure tested separately. Closure(s) not being tested shall be sealed off so they will not function but will appear as they would normally.

4.1.2 Reclosable containers, if assembled by the testing agency, shall be properly secured at least 72 h before beginning the test to allow the materials (for example, the closure liner) to “take a set.” Torque-dependent closures shall be secured at the same torque as applied normally by adult consumers.

4.1.3 All containers shall be handled so that no damage or jarring will occur during storage or transportation.

4.1.4 The containers shall be tested at room temperature (23 ± 3°C).

4.2 Child-Resistant Test (Test Subjects/Selection Criteria):

4.2.1 Use from 1 to 4 groups of 50 children, as required under the sequential testing criteria in Table 1. A consent form (Appendix X3) must be completed for each child participating in the testing.

4.2.2 No more than 20 % of the children in each group shall be tested at or obtained from any given site.

4.2.3 Each group of children shall be randomly selected as to age, subject to the limitations set forth below.

4.2.4 Thirty percent of the children in each group shall be of age 42 to 44 months, 40 % of the children in each group shall

be of age 45 to 48 months, and 30 % of the children in each group shall be of age 49 to 51 months.

4.2.5 The children’s ages in months shall be calculated as follows:

4.2.5.1 Arrange the birth date and test date by the numerical designations for month, day, and year (for example, test date: 8/3/1990; birth date: 6/23/1986).

4.2.5.2 Subtract the month, day, and year numbers for the birth date from the respective numbers for the test date. It is possible that this will result in negative numbers for the months or days.

4.2.5.3 Multiply the difference in years by 12 to obtain the number of months in the difference in years and add this value to the number of months that was obtained when the birth date was subtracted from the test date (that is, $4 \times 12 = 48$; $48 + 2 = 50$). This figure either will remain the same or be adjusted up or down by one month, depending on the number of days obtained in the subtraction of the birth date from the test date.

4.2.5.4 If the number of days obtained by subtracting the days in the birth date from the days in the test date is +16 or more, one month is added to the number of months obtained above. If the number of days is −16 or less, subtract 1 month. If the number of days is between −15 and +15 inclusive, no change is made in the number of months. Thus, for the example given above, the number of days is −20 and the number of months is therefore $50 - 1 = 49$ months.

4.2.5.5 The difference between the number of boys and the number of girls in each age range shall not exceed 10 % of the number of children in that range. Select children without an obvious or overt physical or mental handicap.

4.3 *Child-Resistant Tests (Test Failures)*—A test failure shall be any child who opens the closure or gains access to the container’s contents.

4.4 *Sequential Test*—The sequential test is initially conducted using 50 children, and depending on the results, the criteria in Table 1 determines whether the container is either child resistant or not child resistant or whether further testing is required. Further testing is required if the results are inconclusive and involves the use of one or more additional groups of 50 children each, up to a maximum of 200 children. No individual shall administer the test to more than 30 % of the children tested in each group. Table 1 gives the acceptance (pass), continue testing, and rejection (fail) criteria to be used for the first 5 min and the full 10 min of the children’s test. If the test continues past the initial 50-child panel, the container openings shown in Table 1 are cumulative.

TABLE 1 Number of Closure Openings: Acceptance (Pass), Continue Testing, and Rejection (Fail) Criteria for the First 5 min and the Full 10 min of the Children’s Protocol Test

Test Panel	Cumulative Number of Children	Closure Openings					
		First 5 min			Full 10 min		
		Pass	Continue	Fail	Pass	Continue	Fail
1	50	0–3	4–10	11+	0–5	6–14	15+
2	100	4–10	11–18	19+	6–15	16–24	25+
3	150	11–18	19–25	26+	16–25	26–34	35+
4	200	19–30		31+	26–40		41+

4.5 *Test Procedures*—The children shall be divided into groups of two. The testing shall be done in a location that is familiar to the children, for example, their customary nursery school or regular kindergarten. No child shall test more than two closures. When more than one closure is being tested, each closure shall be dissimilar, and they shall be presented to the paired children in random order. This order shall be recorded. The children shall be tested by the procedure incorporated in the following test instructions:

4.6 *Detailed Standardized Child Test Instructions:*

4.6.1 The children shall have no overt physical or mental handicaps. No child with a permanent or temporary illness, injury, or handicap that would interfere with his/her effective participation shall be included in the test.

4.6.2 The testing shall take place in a well-lit location that is familiar to the children and is isolated from all distractions.

4.6.3 The tester, or another adult, shall escort a pair of children to the test area. The tester shall seat the two children so that there is no visual barrier between the children and the tester.

4.6.4 The tester shall talk to the children to make them feel at ease.

4.6.5 The children shall not be given the impression that they are in a race or contest. They are not to be told that the test is a game or that it is fun. They are not to be offered a reward.

4.6.6 The tester shall record all data before, or after, the test so that full attention can be on the children during the test period.

4.6.7 The tester shall use a stopwatch(s) or other timing devices to time the number of seconds it takes the child to open the container and to time the 5-min test periods.

4.6.8 To begin the test, the tester shall hand the children identical containers, indicate by gesture which opening is being tested and say, *“Please try to open this for me.”*

4.6.9 If a child refuses to participate after the test has started, the tester shall reassure the child and gently encourage the child to try. If the child continues to refuse, the tester shall ask the child to hold the container in his/her lap until the other child is finished. This pair of children shall not be eliminated from the results unless the refusing child disrupts the participation of the other child.

4.6.10 Each child shall be given up to 5 min to open his/her container. The tester shall watch the children at all times during the test. The tester shall minimize conversation with the children as long as they continue to attempt to open their containers. The tester shall not discourage the children verbally or with facial expressions. If a child gets frustrated or bored and stops trying to open his/her container, the tester shall reassure the child and gently encourage the child to keep trying (for example, *“Please try to open the container”*).

4.6.11 The children shall be allowed freedom of movement to work on their containers as long as the tester can watch both children (for example, they can stand up, get down on the floor, or bang or pry the package).

4.6.12 If a child is endangering himself or others at any time, the test shall be stopped and the pair of children eliminated from the final results.

4.6.13 The children shall be allowed to talk to each other about opening the containers and shall be allowed to watch each other try to open the containers.

4.6.14 A child shall not be allowed to try to open the other child’s container.

4.6.15 If a child opens his/her container, the tester shall say, *“thank you,”* take the container from the child and put it out of the child’s reach. The child shall not be asked to open the container a second time.

4.6.16 At the end of the 5-min period, the tester shall demonstrate how to open the container if either child has not opened his or her container. A separate “demo” package shall be used for the demonstration.

4.6.17 Before beginning the demonstration, the tester shall ask the children to set their containers aside. The children shall not be allowed to continue to try to open their containers during the demonstration period.

4.6.18 The tester shall say, *“Watch me open my container.”*

4.6.19 Once the tester gets the children’s full attention, the tester shall hold the demo container approximately 2 ft (0.6 m) from the children and open the container at a normal speed as if the tester were going to use the contents. There shall be no exaggerated opening movements.

4.6.20 The tester shall not discuss or describe how to open the container.

4.6.21 To begin the second 5-min period, the tester shall say, *“Now you try to open your containers.”*

4.6.22 If one or both children have not used their teeth to try to open their containers during the first 5 min, the tester shall say immediately before beginning the second 5-min period, *“You can use your teeth if you want to.”* This is the only statement that the tester shall make about using teeth.

4.6.23 At the end of the test period, the tester shall say, *“Thank you for helping.”* If children were told that they could use their teeth, the tester shall say, *“I know I told you that you could use your teeth today, but you should not put things like this in your mouth again.”* In addition, the tester shall say, *“Never open containers like this when you are by yourself. This kind of container might have something in it that would make you sick.”*

4.6.24 The children shall be escorted back to their classroom or other supervised area by the tester or another adult.

4.6.25 If the children are to participate in a second test, the tester shall have them stand up and stretch for a short time before beginning the second test. The tester shall take care that the children do not disrupt other tests in progress.

5. Senior Testing

5.1 *Senior Adult Panel, Test Subjects*—Use a group of 100 senior adults. Not more than 24 % of the senior adults tested shall be obtained from or tested at any one site. Each group of senior adults shall be randomly selected as to age, subject to the limitations set forth below. Twenty-five percent of the participants shall be 50 to 54 years of age, 25 % of participants shall be 55 to 59 years of age, and 50 % of the participants shall be 60 to 70 years old. Seventy percent of the participants of ages 50 to 59 and ages 60 to 70 shall be female (17 or 18 females shall be apportioned to the 50- to 54-year age group).

No individual tester shall administer the test to more than 35 % of the senior adults tested. Select adults with no obvious or overt physical or mental disability.

5.2 Screening Procedures—Participants who are unable to open the container being tested in the first 5-min time period are given a screening test. The screening tests for this purpose shall use two containers with conventional (not child-resistant (CR) or “special”) closures. The containers shall be the same as those being tested for child resistance but shall have conventional (not child-resistant) closures. Persons who cannot open and close both of the screening containers in 1-min screening tests shall not be counted as participants in the senior adult panel.

5.3 Senior Adult Use Effectiveness (SAUE)—The percentage of adults who both opened all closures of the container in the first (5-min) test period and opened and (if appropriate) properly resecured all closures of the container in the 1-min test period.

5.4 Test Procedures—The senior adults shall be tested individually rather than in groups of two or more. The senior adults shall receive only such printed instructions on how to open and secure properly the special packaging as will appear on or accompany the container as it is delivered to the consumer. The senior adult panel is tested according to the procedure incorporated in the following senior adult panel test instructions:

5.5 Test Instructions—The following test instructions are used for all senior tests. If non-reclosable containers are being tested, the commands to close the package are eliminated.

5.5.1 No adult with a permanent or temporary illness, injury, or disability that would interfere with his/her effective participation shall be included in the test.

5.5.2 Each adult shall read and sign a consent form (**Appendix X2**) before participating. Use any appropriate language from the consent form to recruit potential participants. Before beginning the test, the tester shall say, “*Please read and sign this consent form.*” If an adult cannot read the consent form for any reason (forgot glasses, illiterate, and so forth), he/she shall not participate in the test.

5.5.3 Each adult shall participate individually and not in the presence of other participants or onlookers.

5.5.4 The tests shall be conducted in well-lit and distraction-free areas.

5.5.5 Records shall be filled in before or after the test, so that the tester’s full attention is on the participant during the test period. Recording the test times to open and re-secure the container are the only exceptions.

5.5.6 To begin the first 5-min test period, the tester says, “*I am going to ask you to open and properly close all the caps on these two identical containers according to the instructions found on the caps.*” (Specify other instruction locations if appropriate.)

5.5.7 The first container is handed to the participant by the tester, who says, “*Please open all the caps on this container according to the instructions on the caps.*” (Specify other instruction locations if appropriate.) After the participant opens the container, the tester says, “*Please close all the caps on the*

container properly, according to the instructions on the caps.” (Specify other instruction locations if appropriate.)

5.5.8 Participants are allowed up to 5 min to read the instructions and open and close the package. The tester uses a stopwatch(s) or other timing device to time the opening and resealing times. The elapsed times in seconds to open the container and to close the container are recorded on the datasheet as two separate times.

5.5.9 After 5 min, or when the participant has opened and closed the container, whichever comes first, the tester shall take all test materials from the participant. The participant shall be permitted to remove and replace the closure more than once if the participant initiates these actions. If the participant does not open the container and stops trying to open it before the end of the 5-min period, the tester shall say, “*Are you finished with that container, or would you like to try again?*” If the participant indicates that he/she is finished or cannot open the container and does not wish to continue trying, skip to **5.5.13**.

5.5.10 To begin the second test period, the tester shall give the participant another, but identical, container and say, “*This is an identical container. Please open all the caps on it according to the instructions on the caps.*” (Specify other instruction locations if appropriate.) After the participant opens the container, the tester says, “*Please close all the caps on the container properly, according to the instructions on the caps.*” (Specify other instruction locations if appropriate.)

5.5.11 The participants are allowed up to 1 min (60 full s) to open and close the container. The elapsed times in seconds to open and close the containers are recorded on the datasheet as two separate times. The time that elapses between the opening of the container and the end of the instruction to close the container is not counted as part of the 1-min test time.

5.5.12 After the 1-min test, or when the participant has opened and finished closing the container, whichever comes first, the tester shall take all the test materials from the participant. The participant shall not be allowed to handle the container again. If the participant does not open the container and stops trying to open it before the end of the 1-min period, the tester shall say, “*Are you finished with that container, or would you like to try again?*” If the participant indicates that he/she is finished or cannot open the container and does not wish to continue trying, this shall be counted as a failure of the 1-min test.

5.5.13 Participants who do not open the container in the first 5-min test period are asked to open and close two non-child-resistant screening containers. The participants are given a 1-min test period for each container. The tester shall give the participant a container and say, “*Please open and properly close this container.*” The tester records the time for opening and closing, or 61 s, whichever is less, on the datasheet. The tester then gives the participant the second container and says, “*Please open and properly close this container.*” The time to open and resecure, or 61 s, whichever is less, shall be recorded on the datasheet.

5.5.14 Participants who cannot open and resecure both of the non-child-resistant screening containers are not counted as part of the 100-seniors panel. Additional participants are selected and tested.

5.5.15 No adult shall test more than one container per sitting.

5.5.16 If more adults in a sex or age group are tested than are necessary to determine SAUE, the last person(s) tested shall be eliminated from that group.

5.5.17 Records shall be kept of the number of adults unable to open and the number of the other adults tested who fail to resecure properly the special container. The number of adults who successfully open the special container and then properly resecure the special container (if resealing is appropriate) is the percent of adult-use effectiveness of the special container. In the case of unit packaging, the percent of adult-use effectiveness shall be the number of adults who successfully open a single (unit) container.

6. Adult-Resecuring Procedure

6.1 The adult-resealing test shall be used where an objective determination (for example, visual or mechanical) that a container is properly resealed cannot be made. The adult-resealing test is performed as follows:

6.2 After the adult participant in either the senior adult test or the younger adult has resealed the container, or at the end of the test period (whichever comes first), the tester shall take the container and place it out of reach. The adult participant shall not be allowed to handle the container again.

6.3 The containers that have been opened and appear to be resealed by adults shall be tested by children according to the child-test procedures to determine if the containers have been properly resealed. The containers are given to the children without being opened or resealed again for any purpose.

6.4 Using the results of the adult tests and the tests of apparently-resealed containers by children, the adult-use effectiveness is calculated as follows:

6.4.1 Adult-Use Effectiveness:

6.4.1.1 The number of adult opening and resealing failures, plus the number of containers that were opened by the children during the full 10-min test that exceeds 20 % of the apparently resealed containers equals the total number of failures.

6.4.1.2 The total number of containers tested by adults (which is 100) minus the total number of failures equals the percent adult-use effectiveness.

7. Records and Recommendations

7.1 The following instructions and procedures are recommended for use where appropriate.

7.2 Report Format for Child Test:

7.2.1 Identification:

7.2.1.1 Closeup color photograph(s) clearly identifying the container and showing the opening instructions on the closure.

7.2.1.2 Product name.

7.2.1.3 Product manufacturer.

7.2.1.4 Closure model (trade name—for example, “KLIK & SNAP”).

7.2.1.5 Closure size (for example, 28 mm).

7.2.1.6 Closure manufacturer.

7.2.1.7 Closure material and color(s) (for example, white polypropylene).

7.2.1.8 Closure liner material.

7.2.1.9 TAC seal material.

7.2.1.10 Opening instructions (quote exactly, for example, “*while pushing down, turn right*”). Commas are used to separate words that are on different lines.

7.2.1.11 Symbols, numbers, and letters found inside the closure.

7.2.1.12 Package model.

7.2.1.13 Package material and color.

7.2.1.14 Net contents.

7.2.1.15 Symbols, numbers, and letters on the bottom of the container.

7.2.1.16 Other product identification, for example, EPA Registration Number.

7.2.2 Procedures:

7.2.2.1 Describe all procedures for preparing the test containers.

7.2.2.2 Describe the testing procedures.

7.2.2.3 Describe all instructions given to the children.

7.2.2.4 Define an individual container failure.

7.2.3 Results:

7.2.3.1 Openings in each 5-min period and total openings for males and females in each age group.

7.2.3.2 Opening methods (for example, normal opening, teeth, and so forth).

7.2.3.3 Mean opening times and standard deviation for each 5-min test period.

7.2.3.4 The percentage of containers tested at each site as a percentage of total containers.

7.2.3.5 The percentage of containers tested by each tester as a percentage of total containers.

7.2.3.6 Child-resistant effectiveness for the first 5-min period and the total test period.

7.2.4 Report Format for Adult-Resecuring Test:

7.2.4.1 Identification:

(1) Closeup color photograph(s) clearly identifying the container and showing the top of the closure.

(2) Product manufacturer.

(3) Closure model (trade name).

(4) Closure size (for example, 28 mm).

(5) Closure manufacturer.

(6) Closure material and color(s) (for example, white polypropylene).

(7) Closure liner material.

(8) Symbols, numbers, and letters found inside the closure.

(9) TAC seal material.

(10) Opening instructions (quote exactly, for example, “*While pushing down, turn right*”). Commas are used to separate words that are on different lines.

(11) Container model.

(12) Container material and color.

(13) Net contents.

(14) Symbols, numbers, and letters on the bottom of the container.

(15) Other product identification, for example, EPA Registration Number.

7.2.5 Procedures:

7.2.5.1 Describe all procedures for preparing the test containers.

7.2.5.2 Describe the testing procedures in detail.

7.2.5.3 Describe all instructions given to participants.

7.2.5.4 Define an individual container failure and the procedures for determining a failure.

7.2.6 Results:

7.2.6.1 Report Format for Adult Test:

(1) Total containers opened and total containers resecured, packages opened by males and by females, and containers resecured by males and by females.

(2) Mean opening times and standard deviation for total openings, total openings by females, and total openings by males.

(3) Mean resecurings times and standard deviation for total resecurings, total resecurings by females, and total resecurings by males.

(4) The percentage of containers tested at each site as a percentage of total containers.

(5) The percentage of containers tested by each tester as a percentage of total containers.

(6) Methods of opening (for example, normal opening, pried closure off, and so forth).

7.2.6.2 Report Format for Child Test:

(1) Openings in each 5-min period, and total openings, for males and females in each age group.

(2) Opening methods.

(3) Mean opening times and standard deviation for each 5-min test period.

(4) The percentage of containers tested at each site as a percentage of total containers.

(5) The percentage of containers tested by each tester as a percentage of total containers.

7.2.7 Reclosable packages.

8. Keywords

8.1 child resistance; portable diesel containers; portable fuel containers; portable gasoline containers; portable kerosene containers

APPENDIXES

(Nonmandatory Information)

X1. EFFECTIVENESS OF CR DEVICE

X1.1 The CR device effectiveness is evaluated only at room temperature (4.1.4) on preconditioned samples (3.1.2) so only closure cycling is simulated. Due to potential health hazards during CR testing, samples will only be pre-conditioned as per 3.1.2. CR device material or functional changes may be affected by high and low temperatures, thermal aging, fuel exposure, sunlight, or physical abuse. Physical changes such as

swelling, shrinking, cracking, softening, embrittlement, corrosion of metal parts, or damage from drop and impact may alter the CR device’s effectiveness. Pre-conditioning testing, other than 3.1.2, is not required to evaluate CR effectiveness. Testing for material changes as described above will be performed as per Specification F852.

X2. CONSENT FORM FOR “ADULT” CHILD-RESISTANT PACKAGE TESTING

X2.1 The following is the consent form for the “adult” child-resistant package testing:

Independent testing laboratories have been testing child-resistant packages for many years with no known injuries to anyone, although it is possible that a minor injury could happen.

I agree to test a child-resistant container. I understand that I can change my mind at any time. I am between the ages of 50 and 70 inclusive.

Birth date _____
 Name (printed) _____
 Signature _____
 Date _____
 Zip Code _____

Office Use

Site _____
 Sample Number _____
 Test Number _____
 Package Numbers _____

X3. CONSENT FORM FOR “CHILD” CHILD-RESISTANT PACKAGE TESTING

X3.1 The following is the consent form for the “child” child-resistant package testing:

Independent testing laboratories have been testing child-resistant packages for many years with no known injuries to anyone, although it is possible that a minor injury could happen.

I hereby verify that I am the guardian of the child identified below and agree to allow said child test a child-resistant container. I understand that I can change my mind at any time. The child is between the ages of 42 and 51 months.

Child's birth date _____
Child's name (printed) _____
Guardian's name _____
Guardian's Signature _____
Date _____
Zip Code _____
Site _____
Sample Number _____
Test Number _____
Package Numbers _____

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