This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.



# Standard Classification of Child-Resistant Packages<sup>1</sup>

This standard is issued under the fixed designation D3475; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon ( $\varepsilon$ ) indicates an editorial change since the last revision or reapproval.

## 1. Scope

1.1 This classification covers various types of child-resistant packages.

1.2 The examples for each type of child-resistant packaging are not intended to be all-inclusive, but are included only as an aid in the understanding and comprehension of each type of classification.

1.3 Listings are not to be considered endorsements or approval of the package by ASTM.

1.4 This international standard was developed in accordance with internationally recognized principles on standardization established in the Decision on Principles for the Development of International Standards, Guides and Recommendations issued by the World Trade Organization Technical Barriers to Trade (TBT) Committee.

## 2. Terminology

2.1 Definitions of Terms Specific to This Standard:

2.1.1 child-resistant package—as defined by the Poison Prevention Packaging Act, packaging that is designed or constructed to be significantly difficult for children under five years of age to open or obtain a toxic or harmful amount of the substance contained therein within a reasonable time, and not difficult for normal adults to use properly, but does not mean packaging which all such children cannot open or obtain a toxic or harmful amount within a reasonable time.<sup>2</sup>

2.1.2 *unit dose package*—an immediate product container/ package designed and labeled in such a manner that each individual product package is intended to be opened or used one time in a generally non-reclosable or non-resealable manner, separately from the other individual product units in the package, or the entire contents of a single unit package intended for use in one application. 2.1.2.1 *Discussion*—Normally used for pharmaceutical, human healthcare, and nutritional products in dry solid, topical, transdermal, or liquid form. A unit of sale package may contain one or more individual unit dose packages, that is, individually wrapped transdermal patches, pre-filled syringes and syringe cartridges, blister cards with multiple tablets or capsules, and so forth. Unit dose packages may or may not be child-resistant in accordance with the regulatory requirements of the package contents.

2.1.3 *unit use/single use package*—an immediate product container/package, which may include label directions for use, designed in such a manner that each individual product package is intended to be opened or used one time separately from the other individual product units in the package, or the entire contents of a single unit package intended for use in one application.

2.1.3.1 *Discussion*—These packages are generally nonreclosable or non-reusable. A unit of sale package may consist of one or more non-reusable individual packages. Generally used for household, automotive, chemical, pesticide, veterinary, garden and other products not intended for human ingestion. Package styles may include some aerosol, that is, foggers, soluble film, canisters, pouches, and so forth, filled with liquids, dries, powders, and other product forms. Packages may or may not be child-resistant in accordance with the regulatory requirements of the package contents.

#### 3. Significance and Use

3.1 This classification scheme defines the type of motions, skills, or tools required for a particular type of child-resistant package and provides examples of current packaging within that type.

3.2 Reference to a particular package in this classification is not intended in any manner to denote endorsement or approval of the package by ASTM.

3.3 Packages have been included as examples based on manufacturers' claims of child-resistance. Child-resistant package functionality for any specific product type must be determined by the packager/manufacturer following the guide-lines of the PPPA of 1970 and the most current version of the CFR Title 16 Part 1700 and Title 40 Part 157.<sup>2</sup> The listing of a package in this classification is not an indication of whether

<sup>&</sup>lt;sup>1</sup> This classification is under the jurisdiction of ASTM Committee F02 on Primary Barrier Packaging and is the direct responsibility of Subcommittee F02.50 on Package Design and Development.

Current edition approved May 1, 2020. Published August 2020. Originally approved in 1976. Last previous edition approved in 2018 as D3475 – 18. DOI: 10.1520/D3475-20.

<sup>&</sup>lt;sup>2</sup> Code of Federal Regulations, Title 16, Part 1700 and Title 40, Part 157. 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.

or not it has been successfully tested in accordance with the aforementioned guidelines.

3.4 Additions or deletions to the examples should be reported to Subcommittee F02.50 on Package Design and Development, for incorporation into this classification during the next revision.

3.5 Additions require F02.50 Task Group review of CFR Title 16 Part 1700 full protocol testing reports. Reports should cover procedures and all CFR Title 16 Part 1700 required reporting elements. Additional information may be requested.

3.6 Use of a package cited in this classification allows for the statement "CONFORMS TO ASTM D3475," and does not allow for the use of the ASTM logo or result in an ASTM certification mark.

#### 4. Basis of Classification

4.1 The functional basis for classification and the classifications appear in Table 1.

| TABLE 1 | Classification | of | <b>Child-Resistant</b> | Packages |
|---------|----------------|----|------------------------|----------|
|---------|----------------|----|------------------------|----------|

|              | Description  | Example  |
|--------------|--|--|
|              | TYPE I RECLOSABLE PACKAGING—   | CONTINUOUS THREAD CLOSURE  |
| A            | Random push down while turning; no orientation of the push down force necessary  | Kerr CR-I, II, III, IV and CRTE; Berry Global, Inc. Clic-Loc and Clic-Loc III,<br>Argus-Loc; Centor Inc. Ultra-Loc, Ultra-Loc "C"; Alcoa Tot-Gard III; Van<br>Blarcom metal-on-metal, Saf-Cap I, II, III, and IIIA; Ferdinand Gutman; Poly<br>Seal Corp.; Reliable Products; Berry Global, Inc. F.G. (Final Generation),<br>Carow-Turnloc; Comar-Secure Cap; Reike-FS652; CCL Container Corporator<br>(tube) & RPC Containers Ltd. (closure) Tube Secure; Van Blarcom Closures<br>Inc. Dropper Closure, Saf-Cap Convertible, 1-1/8 Beta Closure; Bericap North<br>America, Bericap SK28/26 CR Slitband; Sanner of America, Child Resistant<br>Screw Cap; Mold-rite Plastics CRC Pictorial Screw Cap, PDT Push Down &<br>Turn Screw Cap; Drug Plastics & Glass Co., Inc. SecuRx; Gerresheimer<br>Boleslawiec S.A. NG 38C; Berry Global, Inc. CR-I/TEIII; Berry Global, Inc.<br>CR-III; Berry Global, Inc. CR3A/LR; Berry Global, Inc. CR5; Berry Global, Inc.<br>CR4; Berry Global, Inc. MAC Duma |
| В            | Localized squeeze force while turning; the force must be applied to a designated location on the closure skirt ITeh Stan (https://standa   | <ul> <li>Econo-Lok, DOT, Dougherty Brothers; Fastex; Berry Global, Inc. Squeeze and<br/>Turn; Berry Global, IncSqueeze &amp; turn jigger-Lite-touch; Weatherchem-Top<br/>Squeeze; Kerr-Tab II Squeeze &amp; Turn; Rieke FS633, HZ43CR, HZ24CR; US<br/>Can-Screw top; Squeeze Lok Low Profile, FG; Rieke Corporation Stolz<br/>HZ32CR: Val-Pak Products, 63-400 Squeeze Cap: Berry Global, Inc. DOT</li> </ul>  |
| С            | Random squeeze while turning; no orientation of the squeeze force is necessary   |  |
| D            | Holding a fitment while turning; two-handed operation is normally required   | Thomas Closure Moldcraft; M & M Industries, IncLife Latch; Berry Global, Inc.<br>Lite-Touch  |
| EFGH<br>IJKL | Key or device required to open<br>Random lift while turning; no orientation of the lift force is necessary<br>Localized lift of cap skirt or tab on closure while turning<br>Localized push down while turning; force must be applied to a designated<br>place on the top of the closure<br>Set combination before turning<br>Pull tab then turn<br>Align arrows, then push tab down, then turn<br>Turn closure until stops, then lift and continue trying to open | <ul> <li>Research and Devices; Ben King Associates Baby Safe; Tredegar</li> <li>Charles A. Breskin; Alcoa Tot Gard II 9a79/astm-d3475-20</li> <li>Mack Wayne Plastics; Anchor Hocking Mold Craft; Berry Global, Inc.</li> <li>None at this time<br/>Intermova Gate Lok, Lefty Lok</li> <li>Berry Global, Incpail; Berry Global, Inc. ZH05SQ; Berry Global, Inc.<br/>T05SCR(B) &amp; L05SCR; Berry Global, Inc. ZH05SQ; Berry Global, Inc.</li> </ul>   |
| М            | Localized push in while turning, force must be applied to designated place on  | ZH50SQ<br>Bway Corporation Screw Top   |
| N            | closure<br>Localized push back lever while turning, force must be applied to designated place of<br>Localized push back lever while turning, force must be applied to designated   | None at this time  |
| ~            | place on closure   |  |
| 0            | Turn the top cap until stops, then push down and turn TYPE II RECLOSABLE PACKAG  |  |
| A            | Random push down while turning   | Eyelet Specialty; Pac-Tec IncPalm-N-Turn; Centor Inc. Screw Loc; Kerr CR-V;<br>Berry Global, Inc. Friendly and Safe; Thornton Plastics Tot-Lok; Child Related<br>Research, Inc. Push-Palm; Design Consultant Plastics; Inventive Packaging<br>Corp., Clarke Container Push & Turn; Cebal Americas (tube) & Berry Global,<br>Inc. (closure) TubeLok; Berry Global, Inc. Purse Pak; Berry Global, Inc.,<br>Spring-Loc; Berry Global, Inc. PursePak; Berry Global, Inc. Tube-Loc  |
| В            | Hold fitment down while turning closure  | Berry Global, Inc. Snap-Lok, Econo-Lok; Centor Inc. 1-Clic; CannaContainers,<br>CR Vial  |
| C<br>D       | Unlock outer ring to release lugs<br>Depress fitment and slide to one side   | Thornton Plastics<br>Plastic box with sliding lug lock (manufacturer unknown); Creative Packaging  |
| Е            | Holding of fitment while turning; two-handed operation is normally required<br>and no orientation of holding force is specified  | Lok-Pak<br>None at this time   |

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TABLE 1 Continued

| 17 Align two points them push up on lab or lip         17 Align two points them push up on lab or lip         18 Past be them push up on lab or lip         19 Past be release. In the them push up on lab or lip         10 Past be release. In the them push up on lab or lip         10 Past be release. In them them push up on lab or lip         11 Past be release. In them them push up on lab or lip         12 Past be release. In them them push up on lab or lip         13 Past up to release.         14 Past be release. In them them push up on lab or lip         15 Past be release. In them them push up on lab or lip         16 Past be release. In them them push up on lab or lip         17 Past be release. In them them push up on lab or lip         18 Past be release. In them them push up on lab or lip         19 Past be release. In them them push up on lab or papelic points simultaneously         19 Past be release. In them them push up on lab or papelic points simultaneously         19 Past be release. In them them push up them push up on lab or lip         10 Past be release. In them them push up them push up on lab or lip         10 Past be release. In them them push up them push up them push up on lab or lip. Past Past Past Past Past Past Past Past   |   |  | -   |
|--|---|--|---|
| (1) Align two points then push up on lab or lip     (2) Align two points then push up on lab or lip     (2) Rotate then lift     Localeted downward pressure to opon     Localeted downward pressure     Localeted townward pressure     Localeted downward pressure     Localeted townward town press     Localeted town  |   | Description  | Example   |
| Boyen Makay, Clarke Acataline Sing Lok, VM Handbage Acataliane Sing   | A |  | Bristol-Myers; Calmar Snap Safe; Stull; Plastic Research; Henlopen Snap Cap   |
| <ul> <li>Locatized downward pressure to copen</li> <li>Downward pressure on to pwt imitianeous up to an edges</li> <li>(1) Press to release and the nith hingd tab (dispensing cap)</li> <li>(2) Press to release and the nith hingd tab (dispensing cap)</li> <li>(3) Pruch up to release</li> <li>(4) Push in or up, o toth, to release</li> <li>(5) Push in and the set of the up to the set of the up to price the up to price the set of the up to price th</li></ul>  |   |  | Boyle Midway; Clarke Container Snap Lok; VH Technologies-virtual hinge  |
| <ul> <li>Downward pressure in toy with simultaneous upward pull on edges<br/>(P) Press to release and them impode to disponsing cap)</li> <li>Press to release. I follow by filing force on tab (removable cap)</li> <li>Press to release. I follow by filing force on tab (removable cap)</li> <li>Press to release. I follow by filing force on tab (removable cap)</li> <li>Press to release. I follow by filing force on tab (removable cap)</li> <li>Press to release.</li> <li>Pre</li></ul>   |   | (2) Rotate then lift   | Continental Carlisle Co. Unikon; Magenta CorpPillpack   |
| (1) Press to release and then ith miged tab (dispensing cap)       (2) Press to release follow by lifting force on to (removable cap)       (3) Press to release follow by lifting force on to (removable cap)       (3) Press to release follow by lifting force on to (removable cap)       (3) Press to release follow by lifting force on to (removable cap)       (3) Press to release follow by lifting force on to (removable cap)       (3) Press to release follow by lifting force on to (removable cap)       (3) Press to release for this model (dispensing cap)       (4) Press to release and it mosp elicit point simulaneously       (5) Press to release and it mosp elicit point simulaneously       (5) Press to release and it mosp elicit point simulaneously       (5) Press to release and it mosp elicit point simulaneously       (5) Press to release and it mosp elicit point simulaneously       (6) Press to release and it mosp elicit point simulaneously       (6) Press to release and it mosp elicit point simulaneously       (6) Press to release and it mosp elicit point simulaneously       (1) Press to release and it mosp elicit point simulaneously       (1) Press to release and it mosp elicit point simulaneously       (1) Press to release and it mosp elicit point simulaneously       (1) Press to release and it mosp elicit point simulaneously       (1) Press to release and it mosp elicit point simulaneously       (1) Press to release and it mosp elicit point simulaneously       (2) Press to release and it mosp elicit point simulaneously       (2) Press to release and it mosp elicit point simulaneously       (2) Press to release and it mosp elicit point simulaneously       (2) Press to release and it mosp elicit point simulaneously       (2) Press to release and it m  | В |  |   |
| <ul> <li>(2) Press to release, follow by lifting force on tab (removable cap)</li> <li>(3) Postu pio release</li> <li>(4) Put in or release</li> <li>(4) Put in or release</li> <li>(5) Put in or release</li> <li>(6) Put in or release</li> <li>(7) Put in and up then flip up</li> <li>(8) Put in and up then flip up</li> <li>(9) Put in and up then flip up</li> <li>(1) Squeeze and lift one specific point simultaneously</li> <li>(2) Squeeze two specific point simultaneously to point</li> <li>(3) Squeeze two specific point simultaneously to point</li> <li>(3) Squeeze two specific point simultaneously to point</li> <li>(4) Squeeze two specific point simultaneously to unck alies, then squeeze</li> <li>(5) Squeeze two specific point simultaneously to unck alies, then squeeze</li> <li>(6) Squeeze two specific point simultaneously to unck alies, then squeeze</li> <li>(7) Put in and up then flip up</li> <li>(7) Squeeze works and lift two specific point simultaneously to unck alies, then squeeze</li> <li>(8) Squeeze while uning and pulling up</li> <li>(9) Lift to the specific point simultaneously to unck alies, then squeeze</li> <li>(9) Squeeze while uning and pulling up</li> <li>(11) Lift to the specific point simultaneously to point</li> <li>(11) Lift to the specific point simultaneously to unck alies, then squeeze</li> <li>(12) Lift to the specific point simultaneously to unck alies, then squeeze</li> <li>(12) Lift to the specific point simultaneously</li> <li>(14) Lift to the specific point simultaneously<td>5</td><td></td><td>Magenta Corp.; Lumlite PopLok; MeadWestvaco (MWV): Slatersville, LLC; PS</td></li></ul>  | 5 |  | Magenta Corp.; Lumlite PopLok; MeadWestvaco (MWV): Slatersville, LLC; PS  |
| <ul> <li>(3) Public to release</li> <li>(4) Public to release</li> <li>(5) Public to release</li> <li>(6) Public to release</li> <li>(7) Public to release</li> <li>(8) Public to release</li> <li>(9) Public to release</li> <li>(10) Public to release</li> <li>(11) Public to release</li> <li>(12) Public to release</li> <li>(13) Public to release</li> <li>(14) Public to release</li> <li>(15) Public to</li></ul>   |   | (2) Press to release, follow by lifting force on tab (removable cap)             |   |
| (6) Public neitase and fith namped lid (dispensing cap)     (7) Public neitase and fith namped lid (dispensing cap)     (  |   | (3) Push up to release   | Stull Easy Flip 2008 captive hinge; Stull Technologies, Pry Open Closure  |
| (6) Push in and tip up       CSP Technologies, ACTIV-VIAL, Flopak Packaging EZ STOR9 (UCCS)         (7) Push in and tip up       Permail-Lye; J. L. Clark, Berry Global, Inc. Flop-Lok, Berry Global, Inc. Series         (8) Squeeze and it it was specific points simultaneously to open       Series and the specific points simultaneously to open         (8) Squeeze two specific points simultaneously to unlock sides, then squeeze       Series and the specific points simultaneously to unlock sides, then squeeze         (9) Squeeze two specific points simultaneously to unlock sides, then squeeze       Series and the specific point simultaneously to unlock sides, then squeeze         (10) Squeeze two specific points simultaneously to unlock sides, then squeeze       Series and the specific points simultaneously to unlock sides, then squeeze         (11) Squeeze the specific points simultaneously to unlock sides, then squeeze       Series and the specific points simultaneously to unlock sides, then squeeze         (12) Technologies, MI, Coopen Stat, Packalan, EC,  |   |  |   |
| <ul> <li>(2) Ptablin and up then thip up</li> <li>(3) Squeeze and lift noe specific point simultaneously</li> <li>(3) Squeeze two points simultaneously to cpoint</li> <li>(4) Squeeze two points simultaneously to unlock sides, then squeeze</li> <li>(5) Squeeze two points simultaneously to unlock sides, then squeeze</li> <li>(5) Squeeze two points simultaneously to unlock sides, then squeeze</li> <li>(6) Squeeze two points simultaneously to unlock sides, then squeeze</li> <li>(7) Squeeze two points simultaneously to unlock sides, then squeeze</li> <li>(7) Squeeze two points simultaneously to unlock sides, then squeeze</li> <li>(7) Squeeze two points simultaneously to unlock sides, then squeeze</li> <li>(7) Squeeze two points simultaneously to unlock sides, then squeeze</li> <li>(8) Squeeze two points simultaneously to unlock sides, then squeeze</li> <li>(9) Square Squeeze two points simultaneously to unlock sides, then squeeze</li> <li>(9) Square Squeeze two points simultaneously</li> <li>(11) Licki, Cerptonic Squeeze two points simultaneously</li> <li>(12) Lift boding tab then push up</li> <li>(11) Licki, Cerptonic Squeeze two context site status the counterrotate cap to a second indox, then counterotate cap to a second indox, then counterrotate cap to a secon</li></ul>   |   |  |   |
| (i) Squeeze and lift two specific points simultaneously     (2) Squeeze and lift one specific point simultaneously     (3) Squeeze have opacific point simultaneously     (3) Squeeze have opacific point simultaneously     (3) Squeeze have opacific point simultaneously     (4) Squeeze have opacific point simultaneously     (5) Squeeze have opacific point simultaneously     (5) Squeeze have opacific point simultaneously     (5) Squeeze have opacific point simultaneously     (6) Squeeze have opacific point simultaneously     (7) Squeeze have opacodue have opacific have opacific have opacific have opacific have  |   |  |   |
| <ul> <li>(3) Squeeze two paints simultaneously to open</li> <li>Berry Global, Inc: FTC 1 1900, FTCR 19</li></ul>   | Ξ |  | Pennwalt-Lye; J. L. Clark; Berry Global, Inc. Flip-Lok; Berry Global, Inc. Series   |
| <ul> <li>Squeeze two specific points simultaneously to unlock sides, then squeeze specific points simultaneously to unlock sides specific points simultaneously to unlock sides specific points simultaneously to unlock sides specific points simultaneously to unlock sides, then squeeze specific points simultaneously to unlock sides specific points simultaneo</li></ul>   |   |  | Dema Olahal Jacob FTOD 10000 FTOD 10100 FTOD 10500 Dellar Du  |
| <ul> <li>specific point on third side while itiling id</li> <li>Requires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires key device or fingenali or coin or other tool to open</li> <li>Sequires kool</li> <li>Sequires kool</li> <li>Sequires kool</li></ul>  |   | (3) Squeeze two points simultaneously to open                                    | Packaging LLC, Rx Squeeze Vial; LA Packaging, SqueezeTops Pharmacy  |
| Silgan Corp. LokTop; Myco Corp. Surelock, Vicap; Berry Global, Inc. Snap Corp.         Silgan Corp. LokTop; Myco Corp. Surelock, Vicap; Berry Global, Inc. 2008 (Corp. Surelock, Vicap; Berry Global, Inc. 2008 (Corp  | = | specific point on third side while lifting lid                                   | Shaw-Clayton Press N Pop; Norman J. Larus   |
| Cin-Made Corporation (Container) CMI (closure) Tec Loc; Continental Fibre Durn Leverpray; Berry Global, Inc: Plastican, Inc. Lever Lock; Cin Made Corp. Friction FI Puly; Sigan on Pa<br>Container Products Inc. Lever Lock; Cin Made Corp. Friction FI Puly; Sigan on Pa<br>States (Corporation 28MM-410 CR) Biopensing Mozze (Cosure; Berry Global,<br>Inc. 172CR, IL28; T16CR(B) and L16CR, Mead/Westvaco (MWV):<br>Statesralle, LLC: PS 186 Loctop.<br>Internova Corp. Flap Lock<br>Statesralle, LLC: PS 186 Loctop.<br>Internova Corp. Sharp: American National Can Co.; Reed-Lane, Inc.<br>Hargo Flavbie Packaging (Pos-HPack); Sharp: Hack Chemical Co.;<br>American National Can Co.; Reed-Lane, Inc.<br>Hargo Flavbie Packaging (Pos-HPack); Sharp: Hack Chemical Co.;<br>American National Can Co.; Reed-Lane, Inc.<br>Hargo Flavbie Packaging (Pos-HPackaging LLC; Cannaline<br>TYPE V UNIT NON-RECLOSABLE PACKAGIMG—RIGID<br>All metal can<br>None at this time<br>Localized squeeze while lifting removes overcap (contents are exposed<br>Hold fitteent still while lifting (actuates normally)<br>Hold fitteent still while lifting (actuates normally)<br>Hold fitteent still while lifting (actuates normally)<br>Directional vercap-actuator while requires a finger longer than that of a child<br>Prests for lease, lift hingged tab a center of the closure filonger tha | G | Requires key device or fingernail or coin or other tool to open                  | Silgan Corp. LokTop; Myco Corp. Surelock, Vicap; Berry Global, Inc. Snap Cap;   |
| Plastics Corporation 28MM-410 CR Dispensing Nozzić Closure; Berry Global.<br>Inc. TOZCR, L028, T16CR(M) and L16CR, MeadWestvaco (MWV):<br>Statersville, LLC: PR 166 Loctop.<br>Internova Corp. Flag Lok<br>Statil Snag. Corp. Flag Lok<br>Statil Snag. Corp. Flag Lok<br>Statil Snag. Corp. Statil Snag. Corp. Statil<br>Statil Snag. Corp. Statil Snag. Corp. Statil<br>Robert Linketter Associaties<br>Yellowstone Environmental Science, Inc. WiseCap<br>Internova Corp. Flag Lok<br>Shag: Reynolds Aluminum (Safety Pak 101); PCM Corp.; Cardinal Health;<br>West Pharma-Service: Reed-Lane, Inc.         0 Oriented tear       Shag: Reynolds Aluminum (Safety Pak 101); PCM Corp.; Cardinal Health;<br>West Pharma-Service: Reed-Lane, Inc.         1 Requires tool       Shag: Reextains National Can Co.; Reed-Lane, Inc.         1 Requires tool       Schering Corp.; Scharp, American National Can Co.; Reed-Lane, Inc.         1 Requires tool       None at this time         2 Requires tool       None at this time         2 Requires tool       None at this time         3 Requires tool       None at this time         3 Requires tool       None at this time         4 Requires tool       None at this time         5 Requires tool       None at this time         1 Requires tool       None at this time         2 Red-Lane, Inc. <td></td> <td></td> <td>Cin-Made Corporation (container) CMI (closure) Tec Loc; Continental Fibre<br/>Drum Leverpak; Berry Global, Inc.; Plastican, Inc. Lever/Toggle Band on Pa</td>  |   |  | Cin-Made Corporation (container) CMI (closure) Tec Loc; Continental Fibre<br>Drum Leverpak; Berry Global, Inc.; Plastican, Inc. Lever/Toggle Band on Pa |
| Lift locking tab then push up       Internova Corp. Flap Lok         Random squeeze while turning and pulling up       Stull Stag OnTwist Off         Align two points, push down outer ring, then push up tab or lip       Stull Stag OnTwist Off         Rotate cap to a first index, then counterrotate cap to a second index, then       Yellowstone Environmental Science, Inc. WiseCap         Ift cap       TYPE IV UNIT NON-RECLOSABLE PACKAGING—FLEXIBLE (STRIP/POUCH)         Internov Corp. Starg: American National Can Co.; Reed-Lane, Inc.         Hargo Flexible Packaging (Pos-I-Pak); Sharp: Hach Chemical Co.;         Hargo Flexible PackAging (Pos-I-Pak); Sharp: Hach Chemical Co.;         Hargo Flexible PackAging (Pos-I-Pak); Sharp: Hach Chemical Co.;         Pace, Reed-Lane, Inc.         Paceuries tool         Hargo Flexible PackAging (Pos-I-Pak); Sharp: Hach Chemical Co.;         Paceuries tool         TYPE V UNIT NON-RECLOSABLE PACKAGINO—RIGIO         Paceuries tool         Requires tool         Requires tool         Requires tool         Requires tool         Package is not opened or activated to expose contents: (1) One piece plastic         unit with multiple holes to allow use of product without human contact;         and (2) Two piece plastic unit with multiple holes to allow use of product without human contact;         Push down while turning (actuates normaliy) <td></td> <td></td> <td>Plastics Corporation 28MM-410 CR Dispensing Nozzle Closure; Berry Globa<br/>Inc. T02CR, L02S, T16CR(B) and L16CR, MeadWestvaco (MWV):</td>   |   |  | Plastics Corporation 28MM-410 CR Dispensing Nozzle Closure; Berry Globa<br>Inc. T02CR, L02S, T16CR(B) and L16CR, MeadWestvaco (MWV):                    |
| Random squeeze while turning and pulling up       Stull Snap OnTWis Off         Align two points, push down outer ring, then push up tab or ito       Robert Linkletter Associates         Yellowstone Environmental Science, Inc. WiseCap       TYPE IV UNIT NON-RECLOSABLE PACKAGING—FLEXIBLE (STRIP/POUCH)         Internal (hidden) tear notch       Sharp; Reynolds Aluminum (Safety Pak 101); PCM Corp.; Cardinal Health; West Pharma-Services; Reed-Lane, Inc.         Oriented tear       ASTIVITIAL       Schering Corp.; Sharp; American National Can Co.; Reed-Lane, Inc.         Requires tool       Hargo Packble Packaging (Pos-Pak); Sharp; Haer Chenical Co.; Pactech Packaging (LC; Cannaline         TYPE V UNIT NON-RECLOSABLE PACKAGING—RIGID       Pacce Packbe Packaging (LC; Cannaline         Requires tool       All metal can         None at this time       Standard packaging         Peelable backing or coating       Standard packaging         Package is not opened or activated to expose contents: (1) One piece plastic unit with multiple holes to allow use of product without human contact; and (2) Two piece plastic unit with multiple holes to allow use of product without human contact         Push down while turning - closure is not removed; contents are exposed       None at this time         TYPE VI UNIT RECLOSABLE PACKAGIG       Kinght Engineering; Berry Global, Inc.; Cobra Plastics inc. 65 mm NICP; Berry Global, Inc.; Cobra Plastics inc. 65 mm NICP; Berry Global, Inc.; Cobra Plastics inc. 65 mm NICP; Berry Global, Inc.; Cobra Plastics inc. 65 mm NICP; Berry Global, Inc.   |   |  |   |
| Align two points, push down outer ring, then push up tab or lip<br>itit cap       Rotate cap to a first index, then counterrotate cap to a second index, then<br>lift cap       Pober Linkletter Associates         Internal (hidden) tear notch       TYPE IV UNIT NON-RECLOSABLE PACKAGING—FLEXIBLE (GTRIP/POUCH)         Internal (hidden) tear notch       Sharp: Reynolds Aluminum (Safety Pak 101); PCM Corp.; Cardinal Health;<br>West Pharma-Services; Reed-Lane, Inc.         Internal (hidden) tear notch       Sharp: Reynolds Aluminum (Safety Pak 101); PCM Corp.; Cardinal Health;<br>West Pharma-Services; Reed-Lane, Inc.         Internal (hidden) tear notch       Sharp: Reynolds Aluminum (Safety Pak 101); PCM Corp.; Cardinal Health;<br>West Pharma-Services; Reed-Lane, Inc.         Internal (hidden) tear notch       Sharp: Reynolds Aluminum (Safety Pak 101); PCM Corp.; Cardinal Health;<br>West Pharma-Services; Reed-Lane, Inc.; Patcech Packaging (LC; Cannaline         Internal (hidden) tear       TYPE V UNIT NON-RECLOSABLE PACKAGING—RIGID         Requires tool       All metal can         Requires tool       All metal can         Requires tool       None at this time         Package is not opened or activated to expose contents: (1) One piece plastic<br>unt with multiple holes to allow use of product<br>without human contact;       Nopac Twist 'n' Use (on tube)         Push down while turning – closure is not removed; contents are exposed<br>through hole in closure tip.       Nopac Twist 'n' Use (on tube)         Itruey of the in closure tip.       TYPE VI UNIT RECLOSABLE PACKAGE   | 1 |  |   |
| <ul> <li>Fordate cap to a first index, then counterrotate cap to a second index, then it cap it</li></ul>  |   |  |   |
| TYPE IV UNIT NON-RECLOSABLE PACKAGING—FLISIBLE (STRIP/POUCH)           Internal (hiden) tear notch         Sharp: Reynolds Aluminum (Safety Pak 101); PCM Corp.; Cardinal Health;<br>West Pharma-Services; Reed-Lane, Inc.           Oriented tear         ASTIM D14/7           Requires tool         Targo Flexible Packdaign (Pos-I-Pack); Sharp; Hanch Chemical Co;<br>Paco; Reed-Lane, Inc.; Pactech Packaging (Pos-I-Pack); Sharp; Alach Chemical Co;<br>American National Can Co.; Cardinal Health;<br>Paco; Reed-Lane, Inc.; Pactech Packaging LLC; Cannaline           TYPE V UNIT NON-RECLOSABLE PACKAGING—RIGID         American National Can Co.; Cardinal Health;<br>Paco; Reed-Lane, Inc.; Pactech Packaging LLC; Cannaline           Requires tool         TYPE V UNIT NON-RECLOSABLE PACKAGING—RIGID           A Requires tool         All metal can           Requires tool         None at this time           Package is not opened or activated to expose contents: (1) One piece plastic<br>unit with multiple holes to allow use of product         None at this time           TYPE VI UNIT RECLOSABLE PACKAGE         None at this time           Localized squeeze while lifting removes overcap (actuates normally)         TYPE VI INERCOSABLE PACKAGES           Localized squeeze while lifting (actuates normally)         TYPE VI INERCOSABLE PACKAGE           Hold firment still while lifting (actuates normally)         Thomas Closure           None at this time         TYPE VI INERCOSOL PACKAGES           Hold firment still while lifting (actuates normally) <td>&lt;</td> <td>Rotate cap to a first index, then counterrotate cap to a second index, then</td> <td></td>  | < | Rotate cap to a first index, then counterrotate cap to a second index, then      |   |
| Internal (hidden) tear notch       Sharp; Reprolds Aluminum (Safety Pak 101); PCM Corp.; Cardinal Health;<br>West Pharma-Services; Reed-Lane, Inc.         Oriented tear       ASTM D147         Requires tool       Hargo Flexible Packaging (Pos-I-Pak); Sharp; Hach Chemical Co.;<br>Hargo Flexible Packaging (Pos-I-Pak); Sharp; Hach Chemical Co.;<br>Paco; Reed-Lane, Inc.; Pactech Packaging (LC; Cardinal Health;<br>More at this time         Requires tool       TYPE V UNIT NON-RECLOSABLE PACKAGEID         Peelable backing or coating       All metal can         None at this time       Standard packaging         Peelable backing or coating       Standard packaging         Package is not opened or activated to expose contents: (1) One piece plastic<br>unit with multiple holes to allow use of product without human contact;<br>and (2) Two piece plastic unit with multiple holes to allow use of product without human contact;       None at this time         Push down while turning – closure is not removed; contents are exposed<br>through hole in closure tip.       TYPE VI UNIT RECLOSABLE PACKAGE         Metered device       None at this time         Metered device       None at this time         Hold fitment still while ittring (actuates normally)       Thomas Closure         Hold fitment still while ittring (actuates normally)       Thomas Closure         None at this time       None at this time         Nere at this time       None at this time         Nore at this time       None at this t   |   |  | KAGING-ELEXIBLE (STBIP/POLICH)  |
| <ul> <li>Oriented tear</li> <li>ASTM D447</li> <li>Schenig Corp.; Sharp; American National Can Co.; Reed-Lane, Inc.;<br/>Pargo Flexible Packaging (Pos-I-Pak); Sharp; Hach Chemical Co.;<br/>Prace: Reed-Lane, Inc.; Pactech Packaging LLC; Cannaline</li> <li>Pequires tool</li> <li>Requires tool</li> <li>All metal can</li> <li>None at this time</li> <li>Standard packaging</li> <li>Package is not opened or activated to expose contents: (1) One piece plastic<br/>unit with multiple holes to allow use of product without human contact;<br/>and (2) Two piece plastic unit with multiple holes to allow use of product without human contact</li> <li>Push down while turning – closure is not removed; contents are exposed<br/>through hole in closure tip.</li> <li>TYPE VI UNIT RECLOSABLE PACKAGE</li> <li>Metered device</li> <li>None at this time</li> <li>Type VI UART RECLOSABLE PACKAGE</li> <li>Kongth Engineering: Berry Global, Inc.; Cobra Plastics Inc. 65 mm NICR; Berry<br/>Global, Inc. 2025P &amp; 211SP; Berry Global, Inc. 211NSR; Berry Global, Inc.</li> <li>Hold fitment still while lifting (actuates normally)</li> <li>Requires use of a key or device to open (actuates normally)</li> <li>Requires use of a key or device to open (actuates normally)</li> <li>Requires use of a key or device to open (actuates normally)</li> <li>Requires use of a key or device to open (actuates normally)</li> <li>Requires and averap-actuator must be oriented, then pressed</li> <li>Directional overcap-actuator metal then pressed</li> <li>Directional overcap-actuator frequires a finger longer than that of a child</li> <li>Press to release, lift hinged tab at center of the closure followed by an upward<br/>force on the tab to remove overcap (actuates normally)</li> <li>Directional overcap-actuator that</li></ul>  | 1 |  | Sharp; Reynolds Aluminum (Safety Pak 101); PCM Corp.; Cardinal Health;  |
| Product       Hargo Clexible Packaging (Pos-I-Pak); Sharp; Hach Chemical Co.;<br>American National Can Co.; Cardinal Health; hundred Standards/sist/a299471f-62         American National Can Co.; Cardinal Health; hundred Standards/sist/a299471f-62       American National Can Co.; Cardinal Health; hundred Standards/sist/a299471f-62         Requires tool       All metal can         Requires tool       All metal can         Requires localized force       None at this time         Peelable backing or coating       Standard packaging         Package is not opened or activated to expose contents: (1) One piece plastic<br>unit with multiple holes to allow use of product       None at this time         It mough hole in closure is not removed; contents are exposed<br>through hole in closure itp.       None at this time         TYPE VI INT RECLOSABLE PACKAGE       None at this time         It coalized squeeze while lifting removes overcap (actuates normally)       Knight Engineering; Berry Global, Inc.; Cobra Plastics Inc. 65 mm NICR; Berry<br>Global, Inc. 2025P & 211SP; Berry Global, Inc. 211NSR; Berry Global, Inc.<br>211SRC         Hold fitment still while lifting (actuates normally)       Thomas Closure         None at this time       211SRC         Directional overcap-actuator must be oriented, then pressed       None at this time         Directional overcap-actuator must be oriented, then pressed       None at this time         Directional overcap-actuator must be oriented, then pressed       None at this time </td <td>3</td> <td>Oriented tear</td> <td></td>   | 3 | Oriented tear  |   |
| Pace: Reed-Lane, Inc.; Pactech Packaging LLC; Cannaline         TYPE V UNIT NON-RECLOSABLE PACKAGING—RIGID         A       Requires tool       All metal can         B       Requires tool       All metal can         B       Peelable backing or coating       Standard packaging         Peelable backing or coating       Standard packaging         Package is not opened or activated to expose contents: (1) One piece plastic<br>unit with multiple holes to allow use of product<br>without human contact       Neopac Twist 'n' Use (on tube)         Push down while turning – closure is not removed; contents are exposed       Neopac Twist 'n' Use (on tube)         through hole in closure tip.       TYPE VI UNIT RECLOSABLE PACKAGE         Vetered device       None at this time         TYPE VI UNIT RECLOSABLE PACKAGE         A       Metered device         A       Metered device         A       Catized squeeze while lifting removes overcap (actuates normally)         Kinght Engineering: Berry Global, Inc. 211NSR; Berry Global, Inc.         B       Hold fitment still while turning (actuates normally)         Clobal; Inc. 202SP & 211SP; Berry Global, Inc. 211NSR; Berry Global, Inc.         B       Hold fitment still while iting (actuates normally)         Directional overcap-actuator must be oriented, then pressed         Directional overcap-actuator must  | ) | Requires tool  |   |
| TYPE V UNIT NON-RECLOSABLE PACKAGING—RIGID         Requires tool       All metal can         Requires tool       None at this time         Standard packaging       Standard packaging         Package is not opened or activated to expose contents: (1) One piece plastic<br>unit with multiple holes to allow use of product without human contact;<br>and (2) Two piece plastic unit with multiple holes to allow use of product<br>without human contact       Neopac Twist 'n' Use (on tube)         Push down while turning – closure is not removed; contents are exposed<br>through hole in closure tip.       Neopac Twist 'n' Use (on tube)         TYPE VI UNIT RECLOSABLE PACKAGE       None at this time         TYPE VI UNIT RECLOSABLE PACKAGE       None at this time         Clocalized squeeze while lifting removes overcap (actuates normally)       Knight Engineering; Berry Global, Inc. 20SP & 211SP; Berry Global, Inc. 211NSR; Berry Global, Inc. 211NSR; Berry Global, Inc. 211SRC         Hold fitment still while turning (actuates normally)       Thomas Closure         Directional overcap-actuator must be oriented, then pressed       Newman Green, Shellvick Answer Cup 200 TR/CR         Directional overcap-actuator must be oriented, then pressed       Union Carbide; Seaquist; Berry Global, Inc. CR Aerosol<br>locking device and actuator         Press to release, lift hinged tab at center of the closure followed by an upward<br>force on the tab to remove overcap (actuates normally)       None at this time         Directional overcap-actuator that requires the lifting of a   |   |  |   |
| Requires tool       All metal can         Requires localized force       None at this time         Peelable backing or coating       Standard packaging         Package is not opened or activated to expose contents: (1) One piece plastic       Standard packaging         unit with multiple holes to allow use of product without human contact;       Standard packaging         and (2) Two piece plastic unit with multiple holes to allow use of product without human contact       Neopac Twist 'n' Use (on tube)         Push down while turning – closure is not removed; contents are exposed       Neopac Twist 'n' Use (on tube)         through hole in closure tip.       TYPE VI UNIT RECLOSABLE PACKAGE         Metered device       None at this time         TYPE VI LAEROSOL PACKAGES       Knight Engineering: Berry Global, Inc.; Cobra Plastics Inc. 65 mm NICR; Berry Global, Inc. 211NSR; Berry Global, Inc. 211NSR; Berry Global, Inc. 211SRC         Hold fitment still while turning (actuates normally)       Thomas Closure         Hold fitment still while turning (actuates normally)       None at this time         Directional overcap-actuator must be oriented, then pressed       None at this time         Directional overcap-actuator requires sequential simultaneous pushing of locking device and actuator       Union Carbide; Seaquist; Berry Global, Inc. CR Aerosol locking device and actuator         Press to release, lift hinged tab at center of the closure followed by an upward force on the tab to remove overcap (actu  |   |  |   |
| <ul> <li>Requires localized force</li> <li>None at this time</li> <li>Standard packaging</li> <li>Standard pac</li></ul>   |   |  |   |
| Package is not opened or activated to expose contents: (1) One piece plastic<br>unit with multiple holes to allow use of product without human contact;<br>and (2) Two piece plastic unit with multiple holes to allow use of product<br>without human contact         Push down while turning – closure is not removed; contents are exposed<br>through hole in closure tip.       Neopac Twist 'n' Use (on tube)         TYPE VI UNIT RECLOSABLE PACKAGE       None at this time         Metered device       None at this time         TYPE VII AEROSOL PACKAGES       Knight Engineering: Berry Global, Inc.; Cobra Plastics Inc. 65 mm NICR; Berry<br>Global, Inc. 202SP & 211SP; Berry Global, Inc. 211NSR; Berry Global, Inc. 211NSR; Berry Global, Inc. 211SRC         Hold fitment still while turning (actuates normally)       Thomas Closure         Hold fitment still while lifting (actuates normally)       None at this time         Directional overcap-actuator must be oriented, then pressed       None at this time         Directional overcap-actuator which requires a finger longer than that of a child       Shell Chemical         Press to release, lift hinged tab at center of the closure followed by an upward<br>force on the tab to remove overcap (actuates normally)       Shell Chemical         Directional overcap-actuator that requires the lifting of a hinged tab to reveal<br>force on the tab to remove overcap (actuates normally)       None at this time         Directional overcap-actuator that requires the lifting of a hinged tab to reveal<br>force on the tab to remove overcap (actuates normally)       None at this time <t< td=""><td></td><td></td><td>None at this time</td></t<>  |   |  | None at this time   |
| unit with multiple holes to allow use of product without human contact;<br>and (2) Two piece plastic unit with multiple holes to allow use of product<br>without human contact<br>Push down while turning – closure is not removed; contents are exposed<br>through hole in closure tip.<br>TYPE VI UNIT RECLOSABLE PACKAGE<br>None at this time<br>TYPE VI UNIT RECLOSABLE PACKAGE<br>Localized squeeze while lifting removes overcap (actuates normally)<br>Localized squeeze while lifting removes overcap (actuates normally)<br>Hold fitment still while turning (actuates normally)<br>Hold fitment still while turning; no orientation of the downward force is<br>Hold fitment still while turning; no orientation of the downward force is<br>HTL (Hayes-Albion)  | ; |  | Standard packaging  |
| <ul> <li>Push down while turning – closure is not removed; contents are exposed through hole in closure tip.</li> <li>TYPE VI UNIT RECLOSABLE PACKAGE</li> <li>Metered device</li> <li>None at this time</li> <li>TYPE VII AEROSOL PACKAGES</li> <li>Localized squeeze while lifting removes overcap (actuates normally)</li> <li>Hold fitment still while turning (actuates normally)</li> <li>Hold fitment still while turning (actuates normally)</li> <li>Hold fitment still while lifting (actuates normally)</li> <li>Knight Engineering; Berry Global, Inc. 211NSR; Berry Global, Inc. 211NSR; Berry Global, Inc. 211SRC</li> <li>Hold fitment still while lifting (actuates normally)</li> <li>Requires use of a key or device to open (actuates normally)</li> <li>None at this time</li> <li>Directional overcap-actuator must be oriented, then pressed</li> <li>Directional overcap-actuator which requires a finger longer than that of a child</li> <li>Press to release, lift hinged tab at center of the closure followed by an upward force on the tab to remove overcap (actuates normally)</li> <li>Directional overcap-actuator that requires the lifting of a hinged tab to reveal the actuator</li> <li>Random push down while turning; no orientation of the downward force is</li> </ul>   |   | unit with multiple holes to allow use of product without human contact;          |   |
| TYPE VI UNIT RECLOSABLE PACKAGE         Metered device       None at this time         TYPE VII AEROSOL PACKAGES         A Localized squeeze while lifting removes overcap (actuates normally)       Knight Engineering; Berry Global, Inc.; Cobra Plastics Inc. 65 mm NICR; Berry Global, Inc. 202SP & 211SP; Berry Global, Inc. 211NSR; Berry Global, Inc. 211SRC         B Hold fitment still while turning (actuates normally)       Thomas Closure         C Hold fitment still while furning (actuates normally)       None at this time         D Requires use of a key or device to open (actuates normally)       None at this time         D Directional overcap-actuator must be oriented, then pressed       Union Carbide; Seaquist; Berry Global, Inc. CR Aerosol         D Directional overcap-actuator which requires a finger longer than that of a child       Shell Chemical         None at this time       Shell Chemical         D Prest to release, lift hinged tab at center of the closure followed by an upward force on the tab to remove overcap (actuates normally)       None at this time         Directional overcap-actuator that requires the lifting of a hinged tab to reveal the actuator       None at this time   | ) | Push down while turning - closure is not removed; contents are exposed           | Neopac Twist 'n' Use (on tube)  |
| TYPE VII AEROSOL PACKAGES         A       Localized squeeze while lifting removes overcap (actuates normally)       Knight Engineering; Berry Global, Inc.; Cobra Plastics Inc. 65 mm NICR; Berry Global, Inc. 202SP & 211SP; Berry Global, Inc. 211NSR; Berry Global, Inc. 211NSR; Berry Global, Inc. 211SRC         B       Hold fitment still while lifting (actuates normally)       Thomas Closure         C       Hold fitment still while lifting (actuates normally)       None at this time         Directional overcap-actuator must be oriented, then pressed       Newman Green, Shellvick Answer Cup 200 TR/CR         Directional overcap-actuator requires sequential simultaneous pushing of locking device and actuator       Union Carbide; Seaquist; Berry Global, Inc. CR Aerosol         A       Directional overcap-actuator which requires a finger longer than that of a child       Shell Chemical         Press to release, lift hinged tab at center of the closure followed by an upward force on the tab to remove overcap (actuates normally)       None at this time         Directional overcap-actuator that requires the lifting of a hinged tab to reveal the actuator       None at this time         Random push down while turning; no orientation of the downward force is       ITL (Hayes-Albion)   |   |  | DSABLE PACKAGE  |
| <ul> <li>Localized squeeze while lifting removes overcap (actuates normally)</li> <li>Localized squeeze while lifting removes overcap (actuates normally)</li> <li>Hold fitment still while turning (actuates normally)</li> <li>Hold fitment still while lifting (actuates normally)</li> <li>Hold state actuator</li> <li>Hold state actuator</li> <li>Hold state actuator is a finger longer than that of a child</li> <li>Hold state actuator is the lifting of a hinged tab to reveal force on the tab to remove overcap (actuates normally)</li> <li>Hold state actuator</li> <li>Hold state actuate actuation</li> <li>Hore state</li></ul>   | ١ |  |   |
| <ul> <li>Hold fitment still while turning (actuates normally)</li> <li>Hold fitment still while lifting (actuates normally)</li> <li>Requires use of a key or device to open (actuates normally)</li> <li>None at this time</li> <li>Directional overcap-actuator must be oriented, then pressed</li> <li>Directional overcap-actuator requires sequential simultaneous pushing of locking device and actuator</li> <li>Directional overcap-actuator which requires a finger longer than that of a child</li> <li>Press to release, lift hinged tab at center of the closure followed by an upward force on the tab to remove overcap (actuates normally)</li> <li>Directional overcap-actuator that requires the lifting of a hinged tab to reveal the actuator</li> <li>None at this time</li> <li>ITL (Hayes-Albion)</li> </ul>   | 1 |  | Knight Engineering; Berry Global, Inc.; Cobra Plastics Inc. 65 mm NICR; Berry Global, Inc. 202SP & 211SP; Berry Global, Inc. 211NSR; Berry Global, Inc. |
| <ul> <li>Hold fitment still while lifting (actuates normally)</li> <li>Requires use of a key or device to open (actuates normally)</li> <li>Directional overcap-actuator must be oriented, then pressed</li> <li>Directional overcap-actuator requires sequential simultaneous pushing of locking device and actuator</li> <li>Directional overcap-actuator which requires a finger longer than that of a child</li> <li>Press to release, lift hinged tab at center of the closure followed by an upward force on the tab to remove overcap (actuates normally)</li> <li>Directional overcap-actuator that requires the lifting of a hinged tab to reveal the actuator</li> <li>None at this time</li> </ul>   | ł | Hold fitment still while turning (actuates normally)                             |   |
| <ul> <li>Requires use of a key or device to open (actuates normally)</li> <li>Directional overcap-actuator must be oriented, then pressed</li> <li>Directional overcap-actuator requires sequential simultaneous pushing of locking device and actuator</li> <li>Directional overcap-actuator which requires a finger longer than that of a child</li> <li>Press to release, lift hinged tab at center of the closure followed by an upward force on the tab to remove overcap (actuates normally)</li> <li>Directional overcap-actuator that requires the lifting of a hinged tab to reveal the actuator</li> <li>None at this time</li> <li>None at this time</li> <li>ITL (Hayes-Albion)</li> </ul>   |   |  |   |
| <ul> <li>Directional overcap-actuator requires sequential simultaneous pushing of locking device and actuator</li> <li>Directional overcap-actuator which requires a finger longer than that of a child</li> <li>Press to release, lift hinged tab at center of the closure followed by an upward force on the tab to remove overcap (actuates normally)</li> <li>Directional overcap-actuator that requires the lifting of a hinged tab to reveal the actuator</li> <li>Random push down while turning; no orientation of the downward force is</li> <li>Union Carbide; Seaquist; Berry Global, Inc. CR Aerosol</li> <li>Shell Chemical</li> <li>None at this time</li> <li>ITL (Hayes-Albion)</li> </ul>   | ) |  |   |
| <ul> <li>Directional overcap-actuator which requires a finger longer than that of a child</li> <li>Press to release, lift hinged tab at center of the closure followed by an upward</li> <li>force on the tab to remove overcap (actuates normally)</li> <li>Directional overcap-actuator that requires the lifting of a hinged tab to reveal</li> <li>the actuator</li> <li>Random push down while turning; no orientation of the downward force is</li> <li>Shell Chemical</li> <li>None at this time</li> <li>ITL (Hayes-Albion)</li> </ul>   |   | Directional overcap-actuator requires sequential simultaneous pushing of         | Union Carbide; Seaquist; Berry Global, Inc. CR Aerosol  |
| <ul> <li>Press to release, lift hinged tab at center of the closure followed by an upward force on the tab to remove overcap (actuates normally)</li> <li>Directional overcap-actuator that requires the lifting of a hinged tab to reveal the actuator</li> <li>Random push down while turning; no orientation of the downward force is</li> </ul>  | ì |  | Shell Chemical  |
| Directional overcap-actuator that requires the lifting of a hinged tab to reveal the actuator<br>Random push down while turning; no orientation of the downward force is ITL (Hayes-Albion)  | 4 | Press to release, lift hinged tab at center of the closure followed by an upward |   |
|  |   | Directional overcap-actuator that requires the lifting of a hinged tab to reveal | None at this time   |
|  | J |  | ITL (Hayes-Albion)  |