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# Naming of Drug Products Containing Salt Drug Substances

## Guidance for Industry

**U.S. Department of Health and Human Services  
Food and Drug Administration  
Center for Drug Evaluation and Research (CDER)**

**June 2015  
Labeling**

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# Naming of Drug Products Containing Salt Drug Substances

## Guidance for Industry<sup>1</sup>

This guidance represents the current thinking of the Food and Drug Administration (FDA or Agency) on this topic. It does not create any rights for any person and is not binding on FDA or the public. You can use an alternative approach if it satisfies the requirements of the applicable statutes and regulations. To discuss an alternative approach, contact the FDA staff responsible for this guidance as listed on the title page.

### I. INTRODUCTION

This guidance for industry is intended to help you, the sponsor, understand how products with active ingredients that are salts may be affected by CDER's implementation of the United States Pharmacopeia (USP) policy entitled, *Monograph Naming Policy for Salt Drug Substances in Drug Products and Compounded Preparations*<sup>2</sup> (the USP Salt Policy). Your involvement with the implementation of this policy helps to ensure drug product naming that is consistent with the USP Salt Policy, which became effective on May 1, 2013.

This guidance addresses prescription drug products approved under the Federal Food, Drug, and Cosmetic Act (FD&C Act).<sup>3</sup> This guidance does not address implementation of the USP Salt Policy for nonprescription drug products<sup>4</sup> or biological products licensed under the Public Health Service Act (PHS Act).<sup>5</sup>

In general, FDA's guidance documents do not establish legally enforceable responsibilities. Instead, guidances describe the Agency's current thinking on a topic and should be viewed only as recommendations, unless specific regulatory or statutory requirements are cited. The use of the word *should* in Agency guidances means that something is suggested or recommended, but not required.

### II. DISCUSSION

The USP Salt Policy is a naming and labeling policy applicable to drug products that contain an active ingredient that is a salt. The policy stipulates that USP will use the name of the active moiety, instead of the name of the salt, for such a drug product when creating a drug product

<sup>1</sup> This guidance has been prepared by the Center for Drug Evaluation and Research (CDER) at the Food and Drug Administration.

<sup>2</sup> The *Monograph Naming Policy for Salt Drug Substances in Drug Products and Compounded Preparations* is published in USP General Chapter <1121> *Nomenclature*. Please see Appendix 1.

<sup>3</sup> See section 505 of the FD&C Act. This guidance does not address naming and labeling of compounded preparations.

<sup>4</sup> See 21 CFR 201.66.

<sup>5</sup> See section 351 of the PHS Act.

## *Contains Nonbinding Recommendations*

39 monograph title. The USP Salt Policy also states that USP will base the strength of the product  
40 on the active moiety. The policy allows for exceptions under specified circumstances.

41  
42 The USP Salt Policy became effective on May 1, 2013, and USP is now applying it to all new  
43 drug product monographs for products that contain an active ingredient that is a salt. It affects  
44 the development of new drug products, because a USP monograph title for a new drug product,  
45 in most instances, serves as the nonproprietary or “established” name of the related drug  
46 product.<sup>6</sup> A drug product with a label or labeling that contains a name that is inconsistent with  
47 the applicable monograph title risks being misbranded.<sup>7</sup>

48  
49 The USP Salt Policy only applies to the monograph titles for drug products. The policy will not  
50 apply to the titles of monographs for drug substances (active ingredients). Accordingly, the  
51 names of active ingredients (e.g., salts) will not be affected.

### **A. USP Salt Policy Overview<sup>8</sup>**

52  
53  
54  
55 The USP Salt Policy provides the following:

- 56  
57 1. When an active ingredient in a drug product is a salt, the drug product monograph title will  
58 contain the name of the active moiety (or neutral form), and not the name of the salt (e.g.,  
59 “newdrug tablets” instead of “newdrug hydrochloride tablets”).
- 60  
61 2. The strength also will be expressed in terms of the active moiety (e.g., “100 mg newdrug”)  
62 rather than the salt strength equivalent (e.g., “123.7 mg newdrug hydrochloride”).
- 63  
64 3. If the name and strength of a drug product are expressed in terms of the active moiety, the  
65 full name and full strength (or proportion, if CDER has determined proportion is more  
66 appropriate) of the active ingredient (e.g., salt), will appear elsewhere on the drug product  
67 label and labeling.<sup>9</sup>
- 68  
69 4. The USP Salt Policy provides for exceptions to the “active moiety” naming approach, when  
70 the name of the salt conveys vital information from a clinical perspective. In these cases, the  
71 drug product monograph title will include the name of the salt, and the strength of the drug  
72 product also is expressed in terms of the salt form (active ingredient).
- 73  
74 5. USP does not anticipate changing existing monograph titles, unless necessary for safety.  
75 USP and CDER have agreed to coordinate regarding any necessary retrospective name  
76 changes.

### **B. How CDER is Applying the USP Salt Policy**

77  
78  
79  
80 We are applying the USP Salt Policy to prescription drug products under development for which  
81 approval is sought under section 505 of the FD&C Act.

82

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<sup>6</sup> See section 502(e)(3) of the FD&C Act.

<sup>7</sup> See section 502(e)(1)(A)(i) of the FD&C Act.

<sup>8</sup> See USP General Chapter <1121> *Nomenclature*.

<sup>9</sup> See section III.B. for additional information related to the labeling of products that are salts.

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83 CDER's application of the USP Salt Policy should help avoid medication errors that could result  
84 from a mismatch of established name and strength (e.g., the name includes the salt but the  
85 strength is based on active moiety). In addition, we anticipate that the policy will make it easier  
86 for healthcare practitioners to calculate an equivalent dose when transferring patients from one  
87 dosage form to another (e.g., calculating dose from an injection to a tablet), even if the products  
88 contain active ingredients that are different salts, because the strengths and names both will be  
89 based on the active moiety.

90  
91 We recommend you consistently use the established name of the drug product as determined  
92 under the USP Salt Policy in all contexts in which a product's established name is used.

#### **C. How CDER is Applying Exceptions**

93  
94  
95 We anticipate that most drug products containing active ingredients that are salts will be named  
96 using the active moiety, in accordance with the USP Salt Policy. To facilitate implementation of  
97 the policy and its exceptions, we have developed the procedures described below that we  
98 generally intend to follow when considering whether an exception to the USP Salt Policy is  
99 appropriate. To help determine if your product meets one of the exceptions listed below, contact  
100 the review division for your specific drug product and request a meeting. Early communication  
101 for a potential exception (at Pre-IND or Phase I) is important because it could affect how the  
102 product could be developed so that the name and dosing is based on the active moiety or the salt.  
103 The Agency, not the sponsor, will determine whether USP Salt Policy exceptions apply, and  
104 early discussions will help us decide. As we apply the USP Salt Policy, we may identify  
105 additional grounds for exceptions.  
106

107  
108 1. The name of the salt could be retained if any of the following conditions are met:

- 109 a. The active ingredient is a relatively simple salt and administration of the entire salt is  
110 therapeutically important. Examples include: lithium carbonate; iron sulfate, and  
111 other oral and intravenous iron salts; calcium gluconate and other calcium salts;  
112 potassium chloride; magnesium sulfate; sodium or potassium phosphate; and sodium  
113 citrate.  
114
- 115 b. Scientific evidence demonstrates the salt form affects the absorption, distribution,  
116 metabolism, and/or excretion (ADME) of the drug in a manner that influences the  
117 clinician's product selection.  
118
- 119 c. Clinically significant amounts of cations (e.g., sodium, potassium, magnesium or  
120 calcium) accompany the active moiety of a drug product. Clinical significance may  
121 be related to the recommended maximum daily amount of an electrolyte intake in  
122 special patient populations. Examples include: recommended daily intake of sodium  
123 in patients with congestive heart failure or recommended daily intake of potassium in  
124 patients with chronic kidney disease.  
125
- 126 d. There is a significant evidence-based safety concern that the counter-ion part of the  
127 salt could cause acid-base disturbances, hepatic, renal or other organ damage, or  
128 hypersensitivity reactions.  
129

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- 131 2. The name of the salt could be retained if any of the following safety or historical conditions  
132 are met:  
133
- 134 a. The name of the salt is necessary to maintain consistency with other dosage forms of  
135 the same active ingredient (salt). For example, if a tablet dosage form that was  
136 approved before May 1, 2013 included the salt in its established name and the drug  
137 product's strength is based on the salt form, the naming convention would not change  
138 for a new capsule dosage form with the same active ingredient (salt) that is approved  
139 after the effective date.  
140
- 141 b. We identify that the USP Salt Policy should not be applied because there are relevant,  
142 documented safety reasons (e.g., documented medication errors related to name or  
143 strength) in a closely related product.  
144
- 145 c. If we name a drug product according to the USP Salt Policy (e.g., the name and  
146 strength of the product are based on the active moiety) and, postapproval, there are  
147 safety concerns, we will consider whether a retrospective name change is appropriate.  
148 CDER and USP have agreed to coordinate any retrospective name changes.  
149

### **III. HOW TO IMPLEMENT THE USP SALT POLICY**

#### **A. Product Development**

154 When developing a drug product that may be affected by the USP Salt Policy, we encourage you  
155 to do the following:  
156

- 157 1. Consider whether the USP Salt Policy applies to your product. Does your product contain an  
158 active ingredient that is a salt?  
159
- 160 2. If you think your product qualifies for an exception, contact CDER for preliminary feedback  
161 on whether the USP Salt Policy or one of its exceptions applies to your product. You should  
162 provide data to support your position.  
163
- 164 3. Develop your product so the name and strength match and are defined in accordance with the  
165 USP policy or CDER feedback.  
166

#### **B. Labels and Labeling Information**

168 Application of the USP Salt Policy does not affect existing statutory and regulatory requirements  
169 for drug products.  
170

- 171 1. You should create labels and labeling with the following in mind:  
172
- 173 a. The name of the active ingredient in a drug product is not subject to or affected by  
174 application of the USP Salt Policy. This means that the established name of the drug  
175 product may be different than the established name of the active ingredient (e.g., the  
176 active ingredient in "new drug tablets" will remain "newdrug hydrochloride"). The name  
177 and the amount of the active ingredient (salt) should appear on the container label, carton  
178

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- 179 labeling, and other labeling as required by statute and regulation even when the active  
180 moiety is used in the established name and strength of the drug product.<sup>10</sup>  
181
- 182 b. Products that use the active moiety in the name and strength should include an  
183 equivalency statement to indicate the amount of active moiety related to the amount of  
184 active ingredient (salt). This equivalency statement should appear on the container label,  
185 carton labeling, and other labeling.<sup>11</sup>  
186
- 187 c. Products that include the name of the active ingredient (salt) in the established name of  
188 the drug product, because they qualify for an exception, also should include an  
189 equivalency statement indicating the strength in terms of the active moiety. The  
190 equivalency statement should appear on the container label, carton labeling, and other  
191 labeling.<sup>12</sup>  
192
- 193 d. The established name of the drug product and the active ingredient should be correctly  
194 displayed throughout the labeling.  
195
- 196 2. You should pay careful attention to the language used in the following locations in the  
197 prescribing information:  
198
- 199 a. Confirm that the product title in the Highlights section of the Prescribing Information<sup>13</sup> is  
200 accurate.  
201
- 202 b. Confirm that the Dosage Forms and Strengths section<sup>14</sup> clearly states the product contents  
203 in a manner that allows the reader to understand whether the strength is based on the  
204 active moiety or active ingredient (salt).  
205
- 206 c. Confirm that the Description section<sup>15</sup> for drug products containing an active ingredient  
207 that is a salt clearly identifies the active ingredient (salt), the active moiety, and the  
208 strengths of each. This can be accomplished with the use of an equivalency statement.  
209

#### **C. USP Salt Policy Does not Impact Statutory or Regulatory Requirements Related to Active Ingredients**

213 Using the name of the active moiety in the established name and in the expression of strength  
214 does not implicate or change other statutory and regulatory requirements related to “active  
215 ingredient.” For example, an applicant for an abbreviated new drug application will still have to  
216 demonstrate that the company’s proposed generic product has the same active ingredient as the  
217 reference listed drug.<sup>16</sup> The *Orange Book: Approved Drug Products with Therapeutic  
218 Equivalence Evaluations* will continue to provide listings based on the active ingredient.

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<sup>10</sup> See section 502(e)(1)(A)(ii) of the FD&C Act.

<sup>11</sup> See Appendix 2, Example 1.

<sup>12</sup> See Appendix 2, Example 2.

<sup>13</sup> See 21 CFR 201.57(a)(2).

<sup>14</sup> See 21 CFR 201.57(a)(8), and 21 CFR 201.57(c)(4).

<sup>15</sup> See 21 CFR 201.57(c)(12)(i).

<sup>16</sup> See sections 505(j)(2)(A)(ii) and 505(j)(4)(C) of the FD&C Act.



## *Contains Nonbinding Recommendations*

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### **IV. PRODUCTS THAT FAIL TO FOLLOW THE USP SALT POLICY RISK BEING MISBRANDED**

The USP Salt Policy became effective on May 1, 2013. After that date, we anticipate that titles for new USP drug product monographs<sup>17</sup> will not include the active ingredient (salt) unless an exception applies. A product with a name that is inconsistent with a USP monograph title<sup>18</sup> risks being misbranded under the FD&C Act.<sup>19</sup>

### **V. REFERENCES**

Section 502 of the FD&C Act: Misbranded Drugs and Devices

Section 505 of the FD&C Act: New Drugs

Section 751 of the FD&C Act: National Uniformity for Nonprescription Drugs

21 CFR 201.10: Drugs; Statement of Ingredients

21 CFR 201.57: Specific Requirements on Content and Format of Labeling for Human Prescription Drug and Biological Products Described in Section 201.56(b)(1)

21 CFR 314.108(a): New Drug Product Exclusivity; Definitions

Monograph Naming Policy for Salt Drug Substances in Drug Products and Compounded Preparations: The USP Salt Policy is published in General Chapter <1121> *Nomenclature*.

Section 351 of the PHS Act; Regulation of Biological Products

### **VI. DEFINITION**

**Active moiety** - The molecule or ion, excluding those appended portions of the molecule that cause the drug to be an ester,<sup>20</sup> salt (including a salt with hydrogen or coordination bonds), or other noncovalent derivative (such as a complex, chelate, or clathrate) of the molecule, responsible for the physiological or pharmacological action of the drug substance.<sup>21</sup>

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<sup>17</sup> After May 1, 2013, the date the USP Salt Policy became effective, the names of already published drug product monograph titles should not change unless necessary for safety reasons.

<sup>18</sup> USP uses the following as the general format when creating a drug product monograph title: [DRUG][ROUTE OF ADMINISTRATION][DOSAGE FORM]. See USP General Chapter <1121> *Nomenclature*. CDER will generally follow this naming structure for products approved before the creation of a USP monograph title.

<sup>19</sup> See section 502(e)(1)(A)(i) of FD&C Act.

<sup>20</sup> The USP Salt Policy definition of an active moiety does not include “esters.” See USP General Chapter <1121> *Nomenclature*. Consequently, esters should be named as the entire existing covalent entity.

<sup>21</sup> See 21 CFR 314.108(a).

256 **APPENDIX 1: Monograph Naming Policy for Salt Drug Substances in**  
257 **Drug Products and Compounded Preparations<sup>22</sup>**  
258

259 The titles of USP monographs for drug products and compounded preparations formulated with a  
260 salt of an acid or base use the name of the active moiety, as defined below. The strength of the  
261 product or preparation is also expressed in terms of the active moiety.  
262

263 An active moiety is the molecule or ion, excluding those appended portions of the molecule that  
264 cause the drug to be a salt (including a salt with hydrogen or coordination bonds), or other  
265 noncovalent derivative (such as a complex, chelate, or clathrate) of the molecule. The active  
266 moiety is responsible for the physiological or pharmacological action of the drug substance,  
267 without regard to the actual charged state of the molecule in vivo. For example, the active  
268 moiety of a hydrochloride salt of a base is the free base and not the protonated form of the base.  
269 The active moiety of a metal salt of an acid is the free acid.  
270

271 This policy is followed by USP in naming drug products and compounded preparations that are  
272 newly recognized in the USP. Revising existing monographs to conform to this policy is not  
273 intended, except where the USP Council of Experts determines that, for reasons such as safety, a  
274 nomenclature change is warranted.  
275

276 **Labeling:** The labeling clearly states the specific salt form of the active moiety that is present in  
277 the product or preparation because this information may be useful to practitioners and patients.  
278 The names and strengths of both the active moiety and specific salt form (when applicable) are  
279 provided in the labeling.  
280

281 **Exceptions:** In rare cases in which the use of the specific salt form of the active moiety in the  
282 title provides vital information from a clinical perspective, an exception to this policy may be  
283 considered. In such cases, when the monograph title contains the specific salt form of the active  
284 moiety, the strength of the product or preparation also is expressed in terms of the specific salt  
285 form.  
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<sup>22</sup> See USP General Chapter <1121>.

*Contains Nonbinding Recommendations*

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**APPENDIX 2: Sample Labels with Equivalency Statement Language and Formatting for Prescription Drug Products<sup>23</sup>**

We've created the following examples to help you design labels for products subject to the USP Salt Policy.

**Example 1:** Label with name and strength based on active moiety. The information about the salt is included on the side panel.<sup>24</sup>

The new language adds the information about the salt in parentheses with "equivalent to."

Each capsule contains:  
New Drug.....10 mg  
(equivalent to 10.5 mg New Drug Hydrochloride USP)

The image shows a sample drug label for capsules. It features a red header bar at the top. Below the header, the NDC number is 12345-678-90. The trade name is prominently displayed in large black font, followed by "(new drug) Capsules USP" and the strength "10 mg" in red. A pharmacist instruction reads: "Pharmacist: Dispense the accompanying Medication Guide to each patient." The label also includes storage instructions, a barcode, and manufacturer/distributor information. The bottom of the label indicates "Rx only" and "100 CAPSULES".

NDC 12345-678-90

**Trade Name**  
**(new drug) Capsules USP**  
**10 mg**

Pharmacist: Dispense the accompanying Medication Guide to each patient.

Rx only 100 CAPSULES

Each capsule contains:  
New Drug.....10 mg  
(equivalent to 10.5 mg New Drug Hydrochloride USP)

Usual Adult Dose: See package insert.

Dispense in a tight, light-resistant container as defined in the USP, with a child-resistant closure.  
Keep tightly closed.

Store at 25°C (77°F); excursions permitted to 15° to 30 °C (59° to 86°F). [See USP controlled room temperature.]

Manufactured by: ABC Limited (Formulation Division) Anywhere, USA 54321  
Distributed by: BBB packaging services Anyway, USA 33333

737363 Exp 07/14

1234567890  
-678-90-C79-01-A

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<sup>23</sup> The sample labels are included to only show the addition of an equivalency statement and changes to the name and strength that are necessary to implement the USP Salt Policy and its exceptions.

<sup>24</sup> Certain products with small container labels may be exempt from certain label requirements under 21 CFR 201.10(h)(2). To find out if your product is exempt from this regulation, you should contact the agency to discuss appropriate labeling that satisfies the USP Salt Policy.

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307 **Example 2:** Label with name and strength based on active ingredient (palmitate salt). The  
308 information about the active moiety is included on the side panel.<sup>25</sup>  
309

310 The new language adds the information about the active moiety in parentheses with “equivalent  
311 to.”

312  
313 Each capsule contains:  
314 New Drug Palmitate USP.....10 mg  
315 (equivalent to 8.72 mg New Drug)  
316  
317  
318

Each capsule contains:  
New Drug Palmitate USP .....10 mg  
(equivalent to 8.72 mg New Drug)

NDC 12345-678-90

**Trade Name**  
**(new drug palmitate) Capsules USP**  
**10 mg**

Usual Adult Dose: See package insert.

Dispense in a tight, light-resistant container as defined in the USP, with a child-resistant closure. Keep tightly closed.

Store at 25°C (77°F): excursions permitted to 15° to 30°C (59° to 86°F). [See USP controlled room temperature.]

Pharmacist: Dispense the accompanying Medication Guide to each patient.

Rx only

100 CAPSULES

Manufactured by: ABC Limited  
(Formulation Division)  
Anywhere, USA 54321

Distributed by: BBB packaging services  
Anyway, USA 33333

737363 Exp 07/14

1234567890  
-678-90-C79-01-A

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<sup>25</sup> See footnote 24.