

CONVENTION ON INTERNATIONAL TRADE IN ENDANGERED SPECIES
OF WILD FAUNA AND FLORA



Nineteenth meeting of the Plants Committee
Geneva (Switzerland), 18-21 April 2011

Amendments to the Appendices

EUPHORBIA SPP. [DECISION 14.131 (REV. COP15)]

1. This document has been prepared by the Chair of the Working Group on the Periodic Review, with the assistance of the Scientific Authority of Mexico.

Background

2. After the 18th meeting of the Plants Committee (PC18, Buenos Aires, 2009), the Chair of the Working Group on the Periodic Review, Jonas Lüthy (Switzerland), resigned and the Plants Committee appointed Dr Patricia Dávila-Aranda (Mexico) in his place through correspondence.
3. At its 15th meeting (Doha, 2010), the Conference of the Parties amended Decision 14.131 to read as follows:

The Plants Committee shall:

- a) *analyse trade data and conservation status of succulent Euphorbia species (except those species currently included in Appendix I);*
 - b) *prepare a revised list of succulent Euphorbia species that meet the criteria of [Resolution Conf. 9.24 \(Rev. CoP15\)](#) for inclusion in Appendix II;*
 - c) *prepare proposals for consideration at the 16th meeting of the Conference of the Parties that provide for the deletion of Euphorbia species from Appendix II that do not meet the criteria of Resolution Conf. 9.24 (Rev. CoP15), are frequently traded and can be clearly identified by non-specialists; and*
 - d) *determine the need for identification material for species retained in Appendix II.*
4. The generic inclusion in Appendix II of *Euphorbia* spp. entered into effect on 1 July 1975 with annotation #1 (previously annotation 101), which currently designates all parts and derivatives except: a) seeds, spores and pollen (including pollinia); b) seedling or tissue cultures obtained *in vitro*, in solid or liquid media, transported in sterile containers; c) cut flowers of artificially propagated plants; d) fruits, and parts and derivatives thereof, of naturalized or artificially propagated plants of the genus *Vanilla*.

* *The geographical designations employed in this document do not imply the expression of any opinion whatsoever on the part of the CITES Secretariat or the United Nations Environment Programme concerning the legal status of any country, territory, or area, or concerning the delimitation of its frontiers or boundaries. The responsibility for the contents of the document rests exclusively with its author.*

5. According to document PC18 Doc. 16.1.2, the species of non-succulent *Euphorbia* were excluded from the provisions of CITES as of 18 September 1997. Currently, the second edition of "*The CITES Checklist of Succulent Euphorbia Taxa (Euphorbiaceae)*", Carter and Egli (2003), is the standard reference for *Euphorbia* species included in the CITES Appendices, and consists of approximately 900 names of species and infraspecific taxa.
6. Additionally, to date the following have been exempted from the provisions of Appendix II:
 - a) Cultivars of *E. trigona*, *E. lactea* (with certain characteristics) and *E. milii* (when traded in quantities of 100 specimens or more);
 - b) finished products of *E. antisyphilitica* packaged and ready for retail trade (see Annotation #4, paragraph f); and
 - c) the species *E. misera*.
7. However, Appendix II continues to include a large number of species of *Euphorbia* that may not require the protection of CITES. Consequently, since its 15th meeting (Geneva, 2005), the Plants Committee has sought ways to retain in the Appendices only those species of *Euphorbia* that meet the inclusion criteria laid down in [Resolution Conf. 9.24 \(Rev. CoP15\)](#).
8. At the 18th meeting of the Plants Committee (Buenos Aires, March 2009), the then Chair of the intersessional Working Group on the Periodic Review (Switzerland) submitted document [PC18 Doc. 16.1.2](#), which included two lists:
 - a) List A, which proposed deleting five species from Appendix II because they were frequently traded as artificially propagated specimens, and
 - b) List B, which proposed keeping 83 species in Appendix II because they met the criteria of Resolution Conf. 9.24 (Rev. CoP15). This list was prepared based on the responses of five Parties (China, Ethiopia, Madagascar, Mexico and United States) to Notification to the Parties No. 2008/042, and on consultation with experts.
9. The Plants Committee took no action on the two lists, and requested the intersessional Working Group to report at PC19 on the issues listed in the mandate for the Working Group on the Periodic Review of the Appendices (PC17 WG5), namely:
 - a) analysis of the trade data presented in document PC17 Doc. 14 (Annex);
 - b) identification of species for possible deletion from Appendix II, based on this and any other relevant information; and
 - c) preparation of a list of candidate species for possible deletion from the Appendices for consideration at PC18, and submission of a report with this list and any other relevant information.

Analysis and results concerning trade in species of *Euphorbia* included in Appendix II

10. With the aim of complying with Decision 14.131 (Rev. CoP15) and the mandate of PC17 WG5, the following actions were taken:
 - a) UNEP-WCMC was requested to provide trade data on *Euphorbia* spp. included in Appendix II for the period 2000-2008, on the basis of the records reported by the exporting countries. Only in cases where there were no amounts reported by an exporting country were the amounts reported by the importing country taken into consideration.
 - b) Those species that are included in the Review of Significant Trade, as described in document [PC19 Doc. 12.2](#), *Overview of the species-based Review of Significant Trade*, as well as those included in list B (species to be retained in Appendix II) of document PC18 Doc. 16.1.2, were eliminated from the analysis.

- c) The records of *Euphorbia* spp. traded during the period 2000-2008 were compared with the list contained in *The CITES Checklist of Succulent Euphorbia Taxa (Euphorbiaceae)* (Carter and Egli, 2003) and those species that are not in international trade were identified.
- d) From the species in international trade, two groups were formed:
 - i) Low risk from trade: Species with specimens traded only with source code A (artificially propagated) and
 - ii) Potential risk from trade: Species with specimens traded with source code W (wild), U (unknown) or I (confiscated or seized), or with no code.

11. The results of the analysis of the trade were:

- a) We received over 5,000 trade records for Appendix-II *Euphorbia* for the period 2000-2008.
- b) 86 species were eliminated from the analysis because they were covered by the Review of Significant Trade and/or were included in list B in document PC18 Doc. 16.1.2 (Annex 1).
- c) There were no trade records for 336 species during the period 2000-2008 (Annex 2).
- d) There were one or more trade records for 294 species during the period 2000-2008. These species were organized into two groups:
 - i) Low risk from trade: 191 species (Appendix 3);
 - ii) Potential risk from trade: 103 species (Appendix 4).

12. The analysis of Lists A and B in document PC18 Doc. 16.1.2 creates doubts as to their completeness:

- a) List A (species to be deleted from the Appendices) comprises only five species; however, the analysis presented here recognizes 191 species for which only artificially propagated specimens are found in trade (see Annex 3). In addition, 336 species are omitted because no international trade therein is recorded, and these could be possible candidates for delisting (see Annex 2).
- b) List B (species to be retained) includes only 83 species obtained on the basis of the responses of five Parties (China, Ethiopia, Madagascar, Mexico and United States) to [Notification No. 2008/042](#), and consultation with experts. However, the analysis presented here identifies an additional group of 103 species potentially at risk from trade, because they are traded from wild, unknown, or confiscated or seized sources (see Annex 4).

Recommendations to the Plants Committee

13. The Plants Committee may wish to:

- a) Suggest that those species covered by the Review of Significant Trade, those on list B in document PC18 Doc. 16.1.2 (Annex 1), and the species identified as being potentially at risk from trade (Annex 4), remain listed in Appendix II.
- b) Begin a process of consultation with the range States of the species included in Annexes 2 and 3, raising the possibility of deleting them from Appendix II, taking into account their conservation status and possible look-alike problems.
- c) Prepare, in conjunction with the Secretariat, a draft Notification to the Parties to be used for that consultation.
- d) Present the results of that consultation at the 20th meeting of the Plants Committee.

References (including for the Annexes)

Carter S. and Egli U. 2003. The CITES Checklist of Succulent *Euphorbia* Taxa (Euphorbiaceae). *Federal Agency for Nature Conservation*, Bonn, Germany.

EUPHORBIA SPP. NOT INCLUDED IN THE ANALYSIS AS ALREADY INCLUDED IN THE REVIEW OF SIGNIFICANT TRADE OR IN LIST B OF DOCUMENT PC18 DOC. 16.1.2

1. <i>E. albigpollinifera</i>	30. <i>E. didiereoïdes</i>	59. <i>E. neobosseri itampoloensis</i>
2. <i>E. alfredii</i>	31. <i>E. duranii</i>	60. <i>E. neohumbertii</i>
3. <i>E. ankarensis</i>	32. <i>E. elliotii</i>	61. <i>E. pachypodioides</i>
4. <i>E. ankazobensis</i>	33. <i>E. famatamboay</i>	62. <i>E. pauliana*</i>
5. <i>E. antisiphilitica</i>	34. <i>E. fianarantsoae</i>	63. <i>E. paulianii</i>
6. <i>E. antso</i>	35. <i>E. fusca</i>	64. <i>E. pedilanthoides</i>
7. <i>E. aprica*</i>	36. <i>E. genoudiana</i>	65. <i>E. perrieri</i>
8. <i>E. astrophora</i>	37. <i>E. geroldii</i>	66. <i>E. piscidermis</i>
9. <i>E. aureoviridiflora</i>	38. <i>E. gorgonis</i>	67. <i>E. primulifolia</i>
10. <i>E. banae</i>	39. <i>E. guillauminiana</i>	68. <i>E. radians</i>
11. <i>E. beharensis</i>	40. <i>E. gymnocalycioides</i>	69. <i>E. razafindratsirae</i>
12. <i>E. berorohae</i>	41. <i>E. hedyotoïdes</i>	70. <i>E. razafinjohanii</i>
13. <i>E. biaculeata</i>	42. <i>E. herman-schwartzii</i>	71. <i>E. robivelonae</i>
14. <i>E. bongolavensis</i>	43. <i>E. hofstaetteri</i>	72. <i>E. rossii</i>
15. <i>E. braunsii</i>	44. <i>E. horombensis</i>	73. <i>E. rubella</i>
16. <i>E. bulbispina</i>	45. <i>E. horwoodii</i>	74. <i>E. sakarahensis</i>
17. <i>E. bupleurifolia</i>	46. <i>E. iharanae</i>	75. <i>E. schoenlandii</i>
18. <i>E. capmanambatoensis</i>	47. <i>E. itremensis</i>	76. <i>E. silenifolia</i>
19. <i>E. capuronii</i>	48. <i>E. kondoï</i>	77. <i>E. stellata</i>
20. <i>E. charleswilsoniana</i>	49. <i>E. labatii</i>	78. <i>E. stellispina</i>
21. <i>E. colliculina</i>	50. <i>E. leandriana</i>	79. <i>E. subpeltatophylla*</i>
22. <i>E. columnaris</i>	51. <i>E. leucodendron</i>	80. <i>E. susannae</i>
23. <i>E. crassipes</i>	52. <i>E. leuconeura</i>	81. <i>E. suzannae-marnieriae</i>
24. <i>E. crispa</i>	53. <i>E. mahabobokensis</i>	82. <i>E. tirucalli</i>
25. <i>E. croizatii</i>	54. <i>E. mangokyensis</i>	83. <i>E. trichadenia</i>
26. <i>E. cryptocaulis</i>	55. <i>E. milii</i>	84. <i>E. turbiniformis</i>
27. <i>E. decepta</i>	56. <i>E. multiceps</i>	85. <i>E. viguieri</i>
28. <i>E. denisiana</i>	57. <i>E. multiflora*</i>	86. <i>E. waringiae</i>
29. <i>E. denisi*</i>	58. <i>E. neobosseri</i>	

* Species not included in the *CITES Checklist* (Carter y Egli, 2003).

LIST OF APPENDIX-II *EUPHORBIA* SPP.
NOT RECORDED IN TRADE DURING 2000-2008

1. <i>E. acervata</i>	41. <i>E. boiteaui</i>	81. <i>E. corniculata</i>
2. <i>E. aculeata</i>	42. <i>E. bolusii</i>	82. <i>E. corymbosa</i>
3. <i>E. adenochila</i>	43. <i>E. boranensis</i>	83. <i>E. cucumerina</i>
4. <i>E. aequoris</i>	44. <i>E. bosseri</i>	84. <i>E. cuneneana</i>
5. <i>E. alata</i>	45. <i>E. bottae</i>	85. <i>E. curocana</i>
6. <i>E. alcicornis</i>	46. <i>E. bougheyi</i>	86. <i>E. cussonioides</i>
7. <i>E. amarifontana</i>	47. <i>E. brassii</i>	87. <i>E. dalettiensis</i>
8. <i>E. ambarivaotensis</i>	48. <i>E. bravoana</i>	88. <i>E. damarana</i>
9. <i>E. amicornum</i>	49. <i>E. brevis</i>	89. <i>E. darbandensis</i>
10. <i>E. ampliphylla</i>	50. <i>E. broussonetii</i>	90. <i>E. dasyacantha</i>
11. <i>E. analavelonensis</i>	51. <i>E. bruyunsii</i>	91. <i>E. dauana</i>
12. <i>E. angrae</i>	52. <i>E. burgeri</i>	92. <i>E. dawei</i>
13. <i>E. annamarieae</i>	53. <i>E. bussei</i>	93. <i>E. debilisipina</i>
14. <i>E. apparicana</i>	54. <i>E. bwambensis</i>	94. <i>E. decliviticola</i>
15. <i>E. applanata</i>	55. <i>E. cactus</i>	95. <i>E. decorsei</i>
16. <i>E. arceuthobioides</i>	56. <i>E. caducifolia</i>	96. <i>E. dedzana</i>
17. <i>E. asperliaculis</i>	57. <i>E. calamiformis</i>	97. <i>E. dekindtii</i>
18. <i>E. atoto</i>	58. <i>E. californica</i>	98. <i>E. demissa</i>
19. <i>E. atrocarmesina</i>	59. <i>E. caloderma</i>	99. <i>E. dendroides</i>
20. <i>E. atroflora</i>	60. <i>E. cameronii</i>	100. <i>E. despoliata</i>
21. <i>E. atropurpurea</i>	61. <i>E. cannellii</i>	101. <i>E. dhofarensis</i>
22. <i>E. attastoma</i>	62. <i>E. carteriana</i>	102. <i>E. dichroa</i>
23. <i>E. awashensis</i>	63. <i>E. carunculifera</i>	103. <i>E. discrepans</i>
24. <i>E. baleensis</i>	64. <i>E. cassythoides</i>	104. <i>E. dispersa</i>
25. <i>E. baliola</i>	65. <i>E. castillonii</i>	105. <i>E. distinctissima</i>
26. <i>E. ballyana</i>	66. <i>E. cataractarum</i>	106. <i>E. dolichoceras</i>
27. <i>E. ballyi</i>	67. <i>E. cattimandoo</i>	107. <i>E. eduardoi</i>
28. <i>E. baradii</i>	68. <i>E. celata</i>	108. <i>E. ephedroides</i>
29. <i>E. barbicollis</i>	69. <i>E. cereiformis</i>	109. <i>E. eranthes</i>
30. <i>E. bariensis</i>	70. <i>E. chersina</i>	110. <i>E. erigavensis</i>
31. <i>E. barnhartii</i>	71. <i>E. cibdela</i>	111. <i>E. erlangeri</i>
32. <i>E. bayeri</i>	72. <i>E. clavigera</i>	112. <i>E. estevesii</i>
33. <i>E. beillei</i>	73. <i>E. colubrina</i>	113. <i>E. etuberculosa</i>
34. <i>E. bemarahaensis</i>	74. <i>E. comosa</i>	114. <i>E. exilis</i>
35. <i>E. bergeri</i>	75. <i>E. confluens</i>	115. <i>E. exilisipina</i>
36. <i>E. bergii</i>	76. <i>E. congestiflora</i>	116. <i>E. fascicaulis</i>
37. <i>E. berotica</i>	77. <i>E. consobrina</i>	117. <i>E. faucicola</i>
38. <i>E. berthelotii</i>	78. <i>E. conspicua</i>	118. <i>E. fassisipina</i>
39. <i>E. biharamulensis</i>	79. <i>E. contorta</i>	119. <i>E. fleckii</i>
40. <i>E. bitataensis</i>	80. <i>E. copiapina</i>	120. <i>E. fluminis</i>

121. <i>E. forolensis</i>
122. <i>E. fractiflexa</i>
123. <i>E. franksiae</i>
124. <i>E. gamkensis</i>
125. <i>E. geldorensis</i>
126. <i>E. giessii</i>
127. <i>E. gillettii</i>
128. <i>E. glandularis</i>
129. <i>E. glochidiata</i>
130. <i>E. goetzei</i>
131. <i>E. gossypina</i>
132. <i>E. gradyi</i>
133. <i>E. quiengola</i>
134. <i>E. gumaroi</i>
135. <i>E. gymnoclada</i>
136. <i>E. halipedicola</i>
137. <i>E. heterochroma</i>
138. <i>E. heterodoxa</i>
139. <i>E. hintonii</i>
140. <i>E. holmesiae</i>
141. <i>E. holochlorina</i>
142. <i>E. hottentota</i>
143. <i>E. hubertii</i>
144. <i>E. imerina</i>
145. <i>E. imitata</i>
146. <i>E. imparispina</i>
147. <i>E. inculata</i>
148. <i>E. indurescens</i>
149. <i>E. ingenticapsa</i>
150. <i>E. inundaticola</i>
151. <i>E. invaginata</i>
152. <i>E. isacantha</i>
153. <i>E. johannis</i>
154. <i>E. jubata</i>
155. <i>E. juttae</i>
156. <i>E. kamponii</i>
157. <i>E. kanalensis</i>
158. <i>E. kaokoensis</i>
159. <i>E. karroensis</i>
160. <i>E. kerri</i>
161. <i>E. khandallensis</i>
162. <i>E. lacei</i>
163. <i>E. lactiflua</i>
164. <i>E. laikipiensis</i>
165. <i>E. lambii</i>

166. <i>E. larica</i>
167. <i>E. lateriflora</i>
168. <i>E. leistneri</i>
169. <i>E. lemaireana</i>
170. <i>E. lenewontii</i>
171. <i>E. leonensis</i>
172. <i>E. leontopoda</i>
173. <i>E. letestui</i>
174. <i>E. limpopoana</i>
175. <i>E. lividiflora</i>
176. <i>E. longifolia</i>
177. <i>E. luapulana</i>
178. <i>E. lukoseana</i>
179. <i>E. lumbricalis</i>
180. <i>E. macella</i>
181. <i>E. magnicapsula</i>
182. <i>E. makallensis</i>
183. <i>E. malevola</i>
184. <i>E. mangelsdorffii</i>
185. <i>E. margaretae</i>
186. <i>E. maritae</i>
187. <i>E. marlothiana</i>
188. <i>E. martinae</i>
189. <i>E. masirahensis</i>
190. <i>E. matabelensis</i>
191. <i>E. mcvaughii</i>
192. <i>E. meeneae</i>
193. <i>E. mira</i>
194. <i>E. mixta</i>
195. <i>E. mlanjeana</i>
196. <i>E. monacantha</i>
197. <i>E. multiclava</i>
198. <i>E. multifida</i>
199. <i>E. munditii</i>
200. <i>E. muricata</i>
201. <i>E. myrioclada</i>
202. <i>E. negromontana</i>
203. <i>E. nigrispinoides</i>
204. <i>E. nivulia</i>
205. <i>E. norfolkiana</i>
206. <i>E. nubica</i>
207. <i>E. nubigena</i>
208. <i>E. nyassae</i>
209. <i>E. nyikae</i>
210. <i>E. odontophora</i>

211. <i>E. oligoclada</i>
212. <i>E. omariana</i>
213. <i>E. orbiculifolia</i>
214. <i>E. otjipembana</i>
215. <i>E. oxystegia</i>
216. <i>E. pachyclada</i>
217. <i>E. pachysantha</i>
218. <i>E. paganorum</i>
219. <i>E. panchganiensis</i>
220. <i>E. papilionum</i>
221. <i>E. parviceps</i>
222. <i>E. patentispina</i>
223. <i>E. pedemontana</i>
224. <i>E. pedroi</i>
225. <i>E. perarmata</i>
226. <i>E. perpera</i>
227. <i>E. perplexa</i>
228. <i>E. pervittata</i>
229. <i>E. petraea</i>
230. <i>E. petricola</i>
231. <i>E. piscatorial</i>
232. <i>E. planiceps</i>
233. <i>E. platyrrhiza</i>
234. <i>E. plenispina</i>
235. <i>E. porphyrantha</i>
236. <i>E. prona</i>
237. <i>E. psammophila</i>
238. <i>E. pseudoduseimata</i>
239. <i>E. pseudotuberosa</i>
240. <i>E. pteroclada</i>
241. <i>E. pteroneura</i>
242. <i>E. punicea</i>
243. <i>E. qarad</i>
244. <i>E. quadrata</i>
245. <i>E. quitensis</i>
246. <i>E. quinquecostata</i>
247. <i>E. ramulosa</i>
248. <i>E. reclinata</i>
249. <i>E. rectirama</i>
250. <i>E. reptans</i>
251. <i>E. restitute</i>
252. <i>E. retrospectiva</i>
253. <i>E. rhabdodes</i>
254. <i>E. richardsiae</i>
255. <i>E. robecchii</i>

256. <i>E. rowlandii</i>
257. <i>E. royleana</i>
258. <i>E. rubrimarginata</i>
259. <i>E. rubriseminalis</i>
260. <i>E. rudolfii</i>
261. <i>E. rugosiflora</i>
262. <i>E. santapau</i>
263. <i>E. sarcodes</i>
264. <i>E. sarcostemmoides</i>
265. <i>E. saxorum</i>
266. <i>E. scarlatina</i>
267. <i>E. schmitzii</i>
268. <i>E. scitula</i>
269. <i>E. scyphadena</i>
270. <i>E. sebsebei</i>
271. <i>E. seibanica</i>
272. <i>E. semperflorens</i>
273. <i>E. serendipita</i>
274. <i>E. seretii</i>
275. <i>E. sessiliflora</i>
276. <i>E. setispina</i>
277. <i>E. similiramea</i>
278. <i>E. songweanea</i>
279. <i>E. spartaria</i>
280. <i>E. specksii</i>
281. <i>E. spicata</i>
282. <i>E. stapfii</i>

283. <i>E. strangulata</i>
284. <i>E. strigosa</i>
285. <i>E. stygiana</i>
286. <i>E. subsalsa</i>
287. <i>E. suffulta</i>
288. <i>E. sumati</i>
289. <i>E. suppressa</i>
290. <i>E. susan-holmesiae</i>
291. <i>E. taboraensis</i>
292. <i>E. tanaensis</i>
293. <i>E. taruensis</i>
294. <i>E. teixeirae</i>
295. <i>E. teke</i>
296. <i>E. tenax</i>
297. <i>E. tesorum</i>
298. <i>E. tetracantha</i>
299. <i>E. tetracanthoides</i>
300. <i>E. thinophila</i>
301. <i>E. tholicola</i>
302. <i>E. thouarsiana</i>
303. <i>E. torta</i>
304. <i>E. tortistyla</i>
305. <i>E. transvaalensis</i>
306. <i>E. tsimbazazae</i>
307. <i>E. tuckeyana</i>
308. <i>E. tugelensis</i>
309. <i>E. turkanensis</i>

310. <i>E. undulatifolia</i>
311. <i>E. unicornis</i>
312. <i>E. uzumuk</i>
313. <i>E. vaalputsiana</i>
314. <i>E. vandermerewi</i>
315. <i>E. venterii</i>
316. <i>E. verruculosa</i>
317. <i>E. versicolores</i>
318. <i>E. viduiflora</i>
319. <i>E. vittata</i>
320. <i>E. wakefieldii</i>
321. <i>E. weberbaueri</i>
322. <i>E. whellanii</i>
323. <i>E. williamsonii</i>
324. <i>E. wilmaniae</i>
325. <i>E. x ambohipotsiensis</i>
326. <i>E. x andrefandrovana</i>
327. <i>E. x dentonii</i>
328. <i>E. x doinetiana</i>
329. <i>E. x ingezalahiana</i>
330. <i>E. x jubaephylla</i>
331. <i>E. x mitsimbinensis</i>
332. <i>E. x navae</i>
333. <i>E. x petterssonii</i>
334. <i>E. x soanieranensis</i>
335. <i>E. x zanaharensis</i>
336. <i>E. xanti</i>

APPENDIX-II *EUPHORBIA* SPP. AT LOW RISK FROM TRADE:
ONLY TRADED AS ARTIFICIALLY PROPAGATED SPECIMENS WITH SOURCE CODE (A)

1. <i>E. abdelkuri</i>
2. <i>E. actinoclada</i>
3. <i>E. adjurana</i>
4. <i>E. albertensis</i>
5. <i>E. ambovombensis</i>
6. <i>E. ambroseae</i>
7. <i>E. amygdaloides*</i>
8. <i>E. angularis</i>
9. <i>E. angustiflora</i>
10. <i>E. anoplia</i>
11. <i>E. antiquorum</i>
12. <i>E. arbuscula</i>
13. <i>E. arida</i>
14. <i>E. asthenacantha</i>
15. <i>E. atrox</i>
16. <i>E. avasmontana</i>
17. <i>E. balsamifera</i>
18. <i>E. barnardii</i>
19. <i>E. baylissii</i>
20. <i>E. bourgaeana</i>
21. <i>E. brachyphylla</i>
22. <i>E. brakdamensis</i>
23. <i>E. breviarticulata</i>
24. <i>E. brevirama</i>
25. <i>E. brevitorta</i>
26. <i>E. brunellii</i>
27. <i>E. bubalina</i>
28. <i>E. buruana</i>
29. <i>E. capsaintemariensis</i>
30. <i>E. clandestina</i>
31. <i>E. classenii</i>
32. <i>E. clivicola</i>
33. <i>E. complexa</i>
34. <i>E. confinalis</i>
35. <i>E. cooperi</i>
36. <i>E. cremersii</i>
37. <i>E. cryptospinosa</i>
38. <i>E. cumulata</i>
39. <i>E. cuneata</i>
40. <i>E. cupripina</i>

41. <i>E. cylindrica</i>
42. <i>E. cylindrifolia</i>
43. <i>E. davyi</i>
44. <i>E. decaryi</i>
45. <i>E. decidua</i>
46. <i>E. deightonii</i>
47. <i>E. desmondii</i>
48. <i>E. dilobadena*</i>
49. <i>E. dissitispina</i>
50. <i>E. dregeana</i>
51. <i>E. dumeticola</i>
52. <i>E. duseimata</i>
53. <i>E. echinus</i>
54. <i>E. ecklonii</i>
55. <i>E. eilensis</i>
56. <i>E. elegantissima</i>
57. <i>E. ellenbeckii</i>
58. <i>E. enormis</i>
59. <i>E. epiphylloides</i>
60. <i>E. erythroculata</i>
61. <i>E. espinosa</i>
62. <i>E. eustacei</i>
63. <i>E. evansii</i>
64. <i>E. excelsa</i>
65. <i>E. eyassiana</i>
66. <i>E. fanshawei</i>
67. <i>E. fasciculata</i>
68. <i>E. fiherenensis</i>
69. <i>E. filiflora</i>
70. <i>E. fimbriata</i>
71. <i>E. flanaganii</i>
72. <i>E. fortissima</i>
73. <i>E. fortuita</i>
74. <i>E. franckiana</i>
75. <i>E. francoisii</i>
76. <i>E. fruticosa</i>
77. <i>E. furcata</i>
78. <i>E. fusiformis</i>
79. <i>E. galgalana</i>
80. <i>E. gariepina</i>

81. <i>E. gemmea</i>
82. <i>E. gentiles</i>
83. <i>E. globulicaulis</i>
84. <i>E. graciliramea</i>
85. <i>E. granitcola</i>
86. <i>E. greenwayi</i>
87. <i>E. griseola</i>
88. <i>E. groenewaldii</i>
89. <i>E. gueinzii</i>
90. <i>E. hadramautica</i>
91. <i>E. handiensis</i>
92. <i>E. herrei</i>
93. <i>E. heterospina</i>
94. <i>E. hopetownensis</i>
95. <i>E. hypogaea</i>
96. <i>E. immerse</i>
97. <i>E. inaequispina</i>
98. <i>E. inarticulate</i>
99. <i>E. inornata</i>
100. <i>E. jansenvillensis</i>
101. <i>E. juglans</i>
102. <i>E. kalisana</i>
103. <i>E. keithii</i>
104. <i>E. knobelii</i>
105. <i>E. lamarckii</i>
106. <i>E. lavrani</i>
107. <i>E. ledienii</i>
108. <i>E. longispina</i>
109. <i>E. longituberculosa</i>
110. <i>E. lupulina</i>
111. <i>E. lydenburgensis</i>
112. <i>E. maleolens</i>
113. <i>E. marsabitensis</i>
114. <i>E. mayuranathanii</i>
115. <i>E. memoralis</i>
116. <i>E. migiurtinorum</i>
117. <i>E. mitriformis</i>
118. <i>E. monadenioides</i>
119. <i>E. moratii</i>
120. <i>E. mosaica</i>

* Species not included in the *CITES Checklist* (Carter y Egli, 2003) but recorded in trade.

121. <i>E. namibensis</i>
122. <i>E. namuskluftensis</i>
123. <i>E. neriifolia</i>
124. <i>E. nigrispina</i>
125. <i>E. obesa</i>
126. <i>E. officinarum</i>
127. <i>E. opuntioides</i>
128. <i>E. parciramulosa</i>
129. <i>E. pentops</i>
130. <i>E. perangusta</i>
131. <i>E. persistens*</i>
132. <i>E. persistentifolia</i>
133. <i>E. phillipsiae</i>
134. <i>E. phillipsioides</i>
135. <i>E. phosphorea</i>
136. <i>E. pillansii</i>
137. <i>E. platycephala</i>
138. <i>E. platyclada</i>
139. <i>E. plumerioides</i>
140. <i>E. polyacantha</i>
141. <i>E. ponderosa</i>
142. <i>E. proballyana</i>
143. <i>E. pseudoburuana</i>
144. <i>E. quadrangularis</i>

145. <i>E. quadrialata</i>
146. <i>E. quadrilatera</i>
147. <i>E. quadrispina</i>
148. <i>E. ramiglans</i>
149. <i>E. regis-jubae</i>
150. <i>E. restricta</i>
151. <i>E. rivae</i>
152. <i>E. rubrispinosa</i>
153. <i>E. rudis</i>
154. <i>E. samburuensis</i>
155. <i>E. sapinii</i>
156. <i>E. schimperi</i>
157. <i>E. schinzii</i>
158. <i>E. schizacantha</i>
159. <i>E. septentrionalis</i>
160. <i>E. sepulta</i>
161. <i>E. sipolisii</i>
162. <i>E. speciosa</i>
163. <i>E. spinea</i>
164. <i>E. spiralis</i>
165. <i>E. stolonifera</i>
166. <i>E. submammillaris</i>
167. <i>E. subscandens</i>
168. <i>E. sudanica</i>

169. <i>E. superans</i>
170. <i>E. tortilis</i>
171. <i>E. triaculeata</i>
172. <i>E. triangularis</i>
173. <i>E. tuberculatoides</i>
174. <i>E. tuberosa</i>
175. <i>E. tubiglans</i>
176. <i>E. uhligiana</i>
177. <i>E. umbonata</i>
178. <i>E. umfoloziensis</i>
179. <i>E. vajravelui</i>
180. <i>E. vallis</i>
181. <i>E. venenata</i>
182. <i>E. virosa</i>
183. <i>E. volkmaniae</i>
184. <i>E. vulcanorum</i>
185. <i>E. waterbergensis</i>
186. <i>E. wildii</i>
187. <i>E. woodii</i>
188. <i>E. x lomi</i>
189. <i>E. xylacantha</i>
190. <i>E. xylophylloides</i>
191. <i>E. zoutpansbergensis</i>

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APPENDIX-II *EUPHORBIA* SPP. AT POTENTIAL RISK FROM TRADE:
TRADED WITH SOURCE CODES I, U AND W, OR WITH NO CODE

1. <i>E. abyssinica</i>
2. <i>E. aeruginosa</i>
3. <i>E. aggregata</i>
4. <i>E. ammak</i>
5. <i>E. analalavensis</i>
6. <i>E. aphylla</i>
7. <i>E. arahaka</i>
8. <i>E. atrispina</i>
9. <i>E. бага</i>
10. <i>E. baioensis</i>
11. <i>E. boinensis</i>
12. <i>E. boissieri</i>
13. <i>E. brachiata</i>
14. <i>E. burmannii</i>
15. <i>E. caerulans</i>
16. <i>E. caerulescens</i>
17. <i>E. canariensis</i>
18. <i>E. candelabrum</i>
19. <i>E. caput-aureum</i>
20. <i>E. caput-medusae</i>
21. <i>E. caterviflora</i>
22. <i>E. cedrorum</i>
23. <i>E. clava</i>
24. <i>E. clavarioides</i>
25. <i>E. curvirama</i>
26. <i>E. delphinensis</i>
27. <i>E. enopla</i>
28. <i>E. enterophora</i>
29. <i>E. ernestii</i>
30. <i>E. esculenta</i>
31. <i>E. ferox</i>
32. <i>E. friedrichiae</i>
33. <i>E. gatbergensis</i>
34. <i>E. globosa</i>
35. <i>E. gottlebei</i>

36. <i>E. gracilicaulis</i>
37. <i>E. grandialata</i>
38. <i>E. grandicornis</i>
39. <i>E. grandidens</i>
40. <i>E. gregaria</i>
41. <i>E. guerichiana</i>
42. <i>E. guillemetii*</i>
43. <i>E. gummifera</i>
44. <i>E. hallii</i>
45. <i>E. hamata</i>
46. <i>E. heptagona</i>
47. <i>E. horrida</i>
48. <i>E. hybrid*</i>
49. <i>E. inconstantia</i>
50. <i>E. indecora</i>
51. <i>E. inermis</i>
52. <i>E. ingens</i>
53. <i>E. intisy</i>
54. <i>E. kamerunica</i>
55. <i>E. knuthii</i>
56. <i>E. lactea</i>
57. <i>E. lignosa</i>
58. <i>E. lophogona</i>
59. <i>E. loricata</i>
60. <i>E. louwii</i>
61. <i>E. mahafalensis</i>
62. <i>E. mainty</i>
63. <i>E. mammillaris</i>
64. <i>E. mauritanica</i>
65. <i>E. melanohydrata</i>
66. <i>E. meloformis</i>
67. <i>E. meridionalis</i>
68. <i>E. micracantha</i>
69. <i>E. millotii</i>
70. <i>E. monteiri</i>

71. <i>E. muirii</i>
72. <i>E. multifolia</i>
73. <i>E. nesemannii</i>
74. <i>E. ornithopus</i>
75. <i>E. pentagona</i>
76. <i>E. plagiantha</i>
77. <i>E. poissonii</i>
78. <i>E. polycephala</i>
79. <i>E. polygona</i>
80. <i>E. pseudocactus</i>
81. <i>E. pseudoglobosa</i>
82. <i>E. pubiglans</i>
83. <i>E. pugniformis</i>
84. <i>E. pulvinata</i>
85. <i>E. quartzitcola</i>
86. <i>E. resinifera</i>
87. <i>E. rhombifolia</i>
88. <i>E. sekukuniensis</i>
89. <i>E. squarrosa</i>
90. <i>E. stapelioides</i>
91. <i>E. stenoclada</i>
92. <i>E. symmetrica*</i>
93. <i>E. tardieuana</i>
94. <i>E. tenuispinosa</i>
95. <i>E. tetragona</i>
96. <i>E. tortirama</i>
97. <i>E. tridentate</i>
98. <i>E. trigona</i>
99. <i>E. tuberculata</i>
100. <i>E. unispina</i>
101. <i>E. valida</i>
102. <i>E. venenifica</i>
103. <i>E. x bothae</i>

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