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**COMMITTEE FOR MEDICINAL PRODUCTS FOR HUMAN USE
(CHMP)**

DRAFT

**GUIDELINE ON CORE SmPC FOR HUMAN NORMAL IMMUNOGLOBULIN FOR
INTRAVENOUS ADMINISTRATION (IVIg)
(CPMP/BPWG/859/95 rev. 3)**

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KEYWORDS	IVIg, human normal immunoglobulin, primary immunodeficiency syndromes, hypogammaglobulinaemia, idiopathic thrombocytopenic purpura (ITP), Guillain Barré syndrome, Kawasaki disease
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1 **EXECUTIVE SUMMARY**

2 This Guideline describes the information to be included in the Summary of Product Characteristics
3 (SmPC) for human normal immunoglobulins for intravenous administration.

4 **1. INTRODUCTION (BACKGROUND)**

5 The purpose of this core SmPC is to provide applicants and regulators with harmonised guidance on
6 the information to be included in the Summary of Product Characteristics (SmPC) for a human normal
7 immunoglobulin for intravenous administration (IVIg). This guideline should be read in conjunction
8 with the Guideline on the Clinical Investigation of Human Normal Immunoglobulin for Intravenous
9 Administration (IVIg) (CPMP/BPWG/388/95 rev. 2).

10 The QRD Product Information template with explanatory notes* and the convention to be followed for
11 QRD templates** provide general guidance on format and text and should be read in conjunction with
12 the core SmPC and the Guideline on Summary of Product Characteristics.

13 In addition, for the content of sections 4.4 and 4.8 concerning transmissible agents, refer to the current
14 version of the “Note for Guidance on the Warning on Transmissible Agents in SmPCs and Package
15 Leaflets for plasma-derived medicinal products” (CPMP/BPWG/BWP/561/03).***

16 **2. SCOPE**

17 This core SmPC covers human normal immunoglobulin for intravenous administration defined by the
18 European Pharmacopoeia monograph 0918. It does not apply to products intentionally prepared to
19 contain fragments or chemically modified IgG.

20 **3. LEGAL BASIS**

21 This guideline has to be read in conjunction with Article 11 of Directive 2001/83 as amended, and the
22 introduction and general principles (4) and part I of the Annex I to Directive 2001/83 as amended.

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* (<http://www.emea.eu.int/hums/qrq/qrqpl/H01a%20EN%20NOTE%20SPC-II-lab-pl%20v6.pdf>)

** (<http://www.emea.eu.int/hums/qrq/qrqpl/qrqconventionv6.pdf>)

*** (<http://www.emea.eu.int/pdfs/human/bpwg/056103en.pdf>)

49 **1. NAME OF THE MEDICINAL PRODUCT**

50

51 {(Invented) name strength pharmaceutical form}

52

53

54 **2. QUALITATIVE AND QUANTITATIVE COMPOSITION**

55

56 Human normal immunoglobulin (IVIg)

57

58 *[Product specific information on quantitative composition. Include: IgG subclasses, human protein*
59 *content and minimum content of IgG (e.g. human protein x g/l of which at least y% is IgG), maximum*
60 *IgA content]*

61

62 One ml contains:

63 Human normal immunoglobulin.....{X} mg

64

64 (purity of at least {XX}% IgG)

65

66 One {container e.g. vial} of {xx} ml contains: X g of human normal immunoglobulin

67

68 Distribution of the IgG subclasses (approx. values):

69

69 IgG1 {XX.X}%

70

70 IgG2 {XX.X}%

71

71 IgG3 {XX.X}%

72

72 IgG4 {XX.X}%

73

74 The maximum IgA content is {x} micrograms/ml.

75

76 Produced from the plasma of human donors.

77

78 For a full list of excipients, see section 6.1.

79

80

81 **3. PHARMACEUTICAL FORM**

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83 *[Product specific]*

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87 **4. CLINICAL PARTICULARS**

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89 **4.1 Therapeutic indications**

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91 Replacement therapy in:

92

92 Primary immunodeficiency syndromes with failure of antibody production.

93

93 Hypogammaglobulinaemia and recurrent bacterial infections in patients with chronic lymphocytic

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94 leukaemia, in whom prophylactic antibiotics have failed.

95

95 Hypogammaglobulinaemia and recurrent bacterial infections in plateau phase multiple myeloma

96

96 patients who have failed to respond to pneumococcal immunisation.

97

97 Children and adolescents with congenital AIDS and recurrent bacterial infections.

98

98 Hypogammaglobulinaemia in patients after allogeneic haematopoietic stem cell transplantation

99

99 (HSCT)

100

101 Immunomodulation

102

103 Idiopathic thrombocytopenic purpura (ITP), in children or adults at high risk of bleeding or prior to
104 surgery to correct the platelet count.

105

106 Guillain Barré syndrome.

107

108 Kawasaki disease.

109

110 *[For product specific auto-immune indications (e.g. multifocal motor neuropathy (MMN), chronic*
111 *inflammatory demyelinating polyradiculoneuropathy (CIDP), myasthenia gravis exacerbations) and*
112 *other product specific indications – see Guideline on the Clinical Investigation of Human Normal*
113 *Immunoglobulin for Intravenous Administration (IVIg) CPMP/BPWG/388/95 rev. 2]*

114

115 **4.2 Posology and method of administration**

116

117 **Posology**

118

119 The dose and dosage regimen is dependent on the indication.

120

121 In replacement therapy the dosage may need to be individualised for each patient dependent on the
122 pharmacokinetic and clinical response. The following dosage regimens are given as a guideline.

123

124 Replacement therapy in primary immunodeficiency syndromes

125 The dosage regimen should achieve a trough level of IgG (measured before the next infusion) of at
126 least 4-6 g/l. Three to six months are required after the initiation of therapy for equilibration to occur.
127 The recommended starting dose is 0.4-0.8 g/kg followed by at least 0.2 g/kg/month given in divided
128 doses every one to four weeks.

129

130 The dose required to achieve a trough level of 6 g/l is of the order of 0.2-0.8 g/kg/month. The dosage
131 interval when steady state has been reached varies from 2-4 weeks.

132 Trough levels should be measured and assessed in conjunction with the incidence of infection. To
133 reduce the rate of infection, it may be necessary to increase the dosage and aim for higher trough
134 levels (>6 – 9 g/l).

135

136 Hypogammaglobulinaemia and recurrent bacterial infections in patients with chronic lymphocytic
137 leukaemia, in whom prophylactic antibiotics have failed; hypogammaglobulinaemia and recurrent
138 bacterial infections in plateau phase multiple myeloma patients who have failed to respond to
139 pneumococcal immunisation; children and adolescents with congenital AIDS and recurrent bacterial
140 infections

141 The recommended dose is 0.2-0.4 g/kg every three to four weeks.

142

143 Hypogammaglobulinaemia in patients after allogeneic haematopoietic stem cell transplantation

144 The recommended dose is 0.2-0.4 g/kg every three to four weeks. The trough levels should be
145 maintained above 5g/l.

146

147 Idiopathic Thrombocytopenic Purpura

148 For the treatment of an acute episode, 0.8-1g/kg on day one, which may be repeated once within 3
149 days, or 0.4 g/kg daily for two to five days. The treatment can be repeated if relapse occurs.>

150

151 Guillain Barré syndrome

152 0.4 g/kg/day for 3 to 7 days.

153

154 Kawasaki Disease

155 1.6-2.0 g/kg should be administered in divided doses over two to five days or 2.0 g/kg as a single dose.
156 Patients should receive concomitant treatment with acetylsalicylic acid.

157

158 The dosage recommendations are summarised in the following table:

159

Indication	Dose	Frequency of injections
Replacement therapy in primary immunodeficiency	- starting dose: 0.4 - 0.8 g/kg - thereafter: 0.2 - 0.8 g/kg	every 2 - 4 weeks to obtain IgG trough level of at least 4 - 6 g/l
Replacement therapy in secondary immunodeficiency	0.2 - 0.4 g/kg	every 3 - 4 weeks to obtain IgG trough level of at least 4 - 6 g/l
Children and adolescents with AIDS	0.2 - 0.4 g/kg	every 3 - 4 weeks
Hypogammaglobulinaemia (< 4 g/l) in patients after allogeneic haematopoietic stem cell transplantation	0.2 - 0.4 g/kg	every 3 - 4 weeks
Immunomodulation:		
Idiopathic Thrombocytopenic Purpura	0.8 - 1 g/kg or 0.4 g/kg/d	on day 1, possibly repeated once within 3 days for 2 - 5 days
Guillain Barré syndrome	0.4 g /kg/d	for 3 -7 days
Kawasaki disease	1.6 - 2 g/kg or 2 g/kg	in several doses for 2 - 5 days in association with acetylsalicylic acid in one dose in association with acetylsalicylic acid
Paediatric population	See above	See above

160

161

162 ***Paediatric population***

163

164 As the posology for each indication is given by body weight and adjusted to the clinical outcome of
165 the above mentioned conditions, the posology in children is not considered to be different to that of
166 adults.

167

168 **Method of administration**

169

170 Human normal immunoglobulin should be infused intravenously at an initial rate of {indicate product
171 specific rate} ml/kg/hr for {indicate product specific infusion time} hr. If well tolerated, the rate of
172 administration may gradually be increased to a maximum of {indicate product specific increased rate}
173 ml/kg/hr.

174

175 **4.3 Contraindications**

176

177 *[Product specific contraindications, for example:]* <Fructose intolerance (see section 4.4).>

178 Hypersensitivity to the active substance or to any of the excipients (see section 4.4).

179 Hypersensitivity to human immunoglobulins <, especially in very rare cases of IgA deficiency when
180 the patient has antibodies against IgA.> *[The text within brackets should be selected if appropriate]*

181

182 **4.4 Special warnings and special precautions for use**

183

184 *[In addition to the text below, include any additional product specific precautions and warnings (e.g.*
185 *those relating to excipients present in the product).]*

186

187 *[Product specific for products containing fructose/sorbitol]* <THIS MEDICINAL PRODUCT CONTAINS
188 {XX} MG OF <SORBITOL><FRUCTOSE> PER ML AS AN EXCIPIENT. PATIENTS WITH RARE
189 HEREDITARY PROBLEMS OF FRUCTOSE INTOLERANCE SHOULD NOT TAKE THIS MEDICINE.
190 SPECIAL PRECAUTIONS SHOULD BE TAKEN WITH BABIES AND YOUNG CHILDREN BECAUSE THIS
191 FRUCTOSE INTOLERANCE MAY NOT YET BE DIAGNOSED AND MAY BE FATAL.

192

193 *[Product specific for products containing maltose:]* <THIS MEDICINAL PRODUCT CONTAINS {XX}
194 MG OF MALTOSE PER ML AS AN EXCIPIENT. THE INTERFERENCE OF MALTOSE IN BLOOD GLUCOSE
195 ASSAYS MAY RESULT IN FALSELY ELEVATED GLUCOSE READINGS AND, CONSEQUENTLY, IN THE
196 INAPPROPRIATE ADMINISTRATION OF INSULIN, RESULTING IN LIFE-THREATENING
197 HYPOGLYCAEMIA AND DEATH. ALSO, CASES OF TRUE HYPOGLYCAEMIA MAY GO UNTREATED IF
198 THE HYPOGLYCAEMIC STATE IS MASKED BY FALSELY ELEVATED GLUCOSE READINGS.>

199

200 *[Product specific for products containing glucose:]* <This medicinal product contains {XX} mg of
201 glucose per ml as an excipient. This should be taken into account in case of latent diabetes (where
202 transient glycosuria could appear), diabetes, or in patients on a low sugar diet.>

203

204 Certain severe adverse drug reactions may be related to the rate of infusion. The recommended
205 infusion rate given under “4.2 Method of administration” must be closely followed. Patients must be
206 closely monitored and carefully observed for any symptoms throughout the infusion period.

207 Certain adverse reactions may occur more frequently

208

- 209 - in case of high rate of infusion
- 210 - in patients with hypo- or agammaglobulinemia with or without IgA deficiency
- 211 - in patients who receive human normal immunoglobulin for the first time or, in rare cases, when the
212 human normal immunoglobulin product is switched or when there has been a long interval since
213 the previous infusion.

213

214 Potential complications can often be avoided by ensuring that patients:

- 215 - are not sensitive to human normal immunoglobulin by initially injecting the product slowly
216 ({specify the product specific rate} ml/kg/min);
- 217 - are carefully monitored for any symptoms throughout the infusion period. In particular, patients
218 naive to human normal immunoglobulin, patients switched from an alternative IVIg product or
219 when there has been a long interval since the previous infusion should be monitored during the first
220 infusion and for the first hour after the first infusion, in order to detect potential adverse signs. All
221 other patients should be observed for at least 20 minutes after administration;

222

223 In case of adverse reaction, either the rate of administration must be reduced or the infusion stopped.

224 The treatment required depends on the nature and severity of the side effect.

225 In case of shock, standard medical treatment for shock should be implemented.

226

227 In all patients, IVIg administration requires:

- 228 - adequate hydration prior to the initiation of the infusion of IVIg
- 229 - monitoring of urine output
- 230 - monitoring of serum creatinine levels
- 231 - avoidance of concomitant use of loop diuretics.

232

233 Hypersensitivity

234 True hypersensitivity reactions are rare. They can occur in the very seldom cases of IgA deficiency
235 with anti-IgA antibodies.

236 Rarely, human normal immunoglobulin can induce a fall in blood pressure with anaphylactic reaction,
237 even in patients who had tolerated previous treatment with human normal immunoglobulin.

238

239 Thromboembolism

240 There is clinical evidence of an association between IVIg administration and thromboembolic events
241 such as myocardial infarction, stroke, pulmonary embolism and deep vein thromboses which is
242 assumed to be related to a relative increase in blood viscosity through the high influx of
243 immunoglobulin in at-risk patients. Caution should be exercised in prescribing and infusing IVIg in
244 obese patients and in patients with pre-existing risk factors for thrombotic events (such as advanced
245 age, hypertension, diabetes mellitus and a history of vascular disease or thrombotic episodes, patients
246 with acquired or inherited thrombophilic disorders, patients with prolonged periods of immobilisation,
247 severely hypovolemic patients, patients with diseases which increase blood viscosity).

248
249 In patients at risk for thromboembolic adverse reactions, IVIg products should be administered at the
250 minimum rate of infusion and dose practicable.

251

252 Acute renal failure

253 Cases of acute renal failure have been reported in patients receiving IVIg therapy. In most cases, risk
254 factors have been identified, such as pre-existing renal insufficiency, diabetes mellitus, hypovolemia,
255 overweight, concomitant nephrotoxic medicinal products or age over 65.

256

257 In case of renal impairment, IVIg discontinuation should be considered.

258 While these reports of renal dysfunction and acute renal failure have been associated with the use of
259 many of the licensed IVIg products, those containing sucrose as an excipient accounted for a
260 disproportionate share of the total number. In patients at risk, the use of IVIg products that do not
261 contain sucrose may be considered. [*Product specific depending on whether the product contains*
262 *sucrose:*] <{(Invented) name} contains {XX} mg of sucrose per ml as an excipient.> <{(Invented)
263 name} does not contain sucrose.>

264

265 In patients at risk for acute renal failure, IVIg products should be administered at the minimum rate of
266 infusion and dose practicable.

267

268 Haemolytic anaemia

269 IVIg products can contain blood group antibodies which may act as haemolysins and induce *in vivo*
270 coating of red blood cells with immunoglobulin, causing a positive direct antiglobulin reaction
271 (Coomb's test) and, rarely, haemolysis. Haemolytic anaemia can develop subsequent to IVIg therapy
272 due to enhanced red blood cells (RBC) sequestration. IVIg recipients should be monitored for clinical
273 signs and symptoms of haemolysis.

274

275 Interference with serological testing

276 After injection of immunoglobulin the transitory rise of the various passively transferred antibodies in
277 the patient's blood may result in misleading positive results in serological testing.

278

279 Passive transmission of antibodies to erythrocyte antigens, e.g. A, B, D may interfere with some
280 serological tests for red cell allo-antibodies for example the antiglobulin test (Coombs test).

281

282 Transmissible agents

283 [*The text to be inserted here for transmissible agents should be in accordance with the current version*
284 *of the guideline on the Warning on Transmissible Agents in SPCs and Package Leaflets for plasma-*
285 *derived medicinal products (CPMP/BPWG/BWP/561/03).]*

286

287 **Paediatric population**

288 [*Product specific. The text to be inserted here should be in line with the Paediatric regulation and the*
289 *SmPC guideline]*

290

291 **4.5 Interactions with other medicinal products and other forms of interactions**

292

293 Live attenuated virus vaccines

294 Immunoglobulin administration may impair for a period of at least 6 weeks and up to 3 months the
295 efficacy of live attenuated virus vaccines such as measles, rubella, mumps and varicella. After

296 administration of this product, an interval of 3 months should elapse before vaccination with live
297 attenuated virus vaccines. In the case of measles, this impairment may persist for up to 1 year.
298 Therefore patients receiving measles vaccine should have their antibody status checked.
299

300 **Paediatric population**

301 *[Product specific: The text to be inserted here should be in line with the Paediatric regulation and the*
302 *SmPC guideline.]*
303

304 **4.6 Pregnancy and lactation**

306 Pregnancy

307 The safety of this medicinal product for use in human pregnancy has not been established in controlled
308 clinical trials and therefore should only be given with caution to pregnant women and breast-feeding
309 mothers. Clinical experience with immunoglobulins suggests that no harmful effects on the course of
310 pregnancy, or on the foetus and the neonate are to be expected.
311

312 Lactation

313 Immunoglobulins are excreted into the milk and may contribute to the transfer of protective antibodies
314 to the neonate.
315

316 Fertility

317 Clinical experience with immunoglobulins suggests that no harmful effects on fertility are to be
318 expected.
319

320 *[Any relevant product specific information should be added.]*
321

322 **4.7 Effects on ability to drive and use machines**

323
324 No studies on the effects on the ability to drive and use machines have been performed.
325

326 **4.8 Undesirable effects**

328 ***a. Summary of the safety profile***

329 Adverse reactions such as chills, headache, fever, vomiting, allergic reactions, nausea, arthralgia, low
330 blood pressure and moderate low back pain may occur occasionally.

331 Rarely human normal immunoglobulins may cause a sudden fall in blood pressure and, in isolated
332 cases, anaphylactic shock, even when the patient has shown no hypersensitivity to previous
333 administration.
334

335 Cases of reversible aseptic meningitis, isolated cases of reversible haemolytic anaemia/haemolysis and
336 rare cases of transient cutaneous reactions, have been observed with human normal immunoglobulin.
337

338 Increase in serum creatinine level and/or acute renal failure have been observed.
339

340 Very rarely: Thromboembolic reactions such as myocardial infarction, stroke, pulmonary embolism,
341 deep vein thromboses.
342

343 *[The text to be inserted here for transmissible agents should be in accordance with the current version*
344 *of the guideline on the Warning on Transmissible Agents in SPCs and Package Leaflets for plasma-*
345 *derived medicinal products (CPMP/BPWG/BWP/561/03).]*
346

347 ***b. Tabulated summary of adverse reactions***

348 The summary table presented below is according to the MedDRA system organ classification (SOC
349 and Preferred Term Level).

350 Frequencies has been evaluated according to the following convention: Very common ($\geq 1/10$);
351 common ($\geq 1/100$ to $< 1/10$); uncommon ($\geq 1/1,000$ to $< 1/100$); rare ($\geq 1/10,000$ to $< 1/1,000$); very rare
352 ($< 1/10,000$).

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<Within each frequency grouping, undesirable effects are presented in order of decreasing seriousness.>

Frequency of Adverse Drug Reactions (ADRs) in clinical studies with {Product name}

MedDRA System Organ Class (SOC)	MedDRA preferred term	ADR frequency category
		{<Very common ($\geq 1/10$); common ($\geq 1/100$ to $< 1/10$); uncommon ($\geq 1/1,000$ to $< 1/100$); rare ($\geq 1/10,000$ to $< 1/1,000$); very rare ($< 1/10,000$).>}

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c. Description of selected adverse reactions

[Product specific]

<d. Paediatric population>

[Product specific. The text to be inserted here should be in line with the Paediatric regulation and the SmPC guideline.]

<e. Other special population(s)>

368
369
370
371

4.9 Overdose

Overdose may lead to fluid overload and hyperviscosity, particularly in patients at risk, including elderly patients or patients with renal impairment.

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5. PHARMACOLOGICAL PROPERTIES

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5.1 Pharmacodynamic properties

Pharmacotherapeutic group: immune sera and immunoglobulins: immunoglobulins, normal human, for intravascular administration, ATC code: J06BA02

Human normal immunoglobulin contains mainly immunoglobulin G (IgG) with a broad spectrum of antibodies against infectious agents.

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Human normal immunoglobulin contains the IgG antibodies present in the normal population. It is usually prepared from pooled plasma from not fewer than 1000 donations. It has a distribution of immunoglobulin G subclasses closely proportional to that in native human plasma. Adequate doses of this medicinal product may restore abnormally low immunoglobulin G levels to the normal range. The mechanism of action in indications other than replacement therapy is not fully elucidated, but includes immunomodulatory effects.

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391
392
393

[Product specific: Clinical study results can be briefly summarised here]

Paediatric population

[Product specific: The text should be in line with the Paediatric regulation and the SmPC guideline.]

394
395
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398

5.2 Pharmacokinetic properties

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400

Human normal immunoglobulin is immediately and completely bioavailable in the recipient's circulation after intravenous administration. It is distributed relatively rapidly between plasma and

401 extravascular fluid, after approximately 3-5 days equilibrium is reached between the intra- and
402 extravascular compartments.
403 Human normal immunoglobulin has a half-life of about *{insert product specific half-life}* days. This
404 half-life may vary from patient to patient, in particular in primary immunodeficiency.

405
406 IgG and IgG-complexes are broken down in cells of the reticuloendothelial system.
407

408 ***Paediatric population***

409 *[Product specific: The text should be in line with the Paediatric regulation and the SmPC guideline.]*

410

411 **5.3 Preclinical safety data**

412

413 *[Product specific]*

414

415

416 **6. PHARMACEUTICAL PARTICULARS**

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418 **6.1 List of excipients**

419

420 *[Product specific. Where applicable, the amount of albumin added as a stabiliser should be stated*
421 *(Ph. Eur. labelling requirement).]*

422

423 **6.2 Incompatibilities**

424

425 In the absence of compatibility studies, this medicinal product must not be mixed with other medicinal
426 products.

427

428 *[Product specific]*

429

430 **6.3 Shelf-life**

431

432 *[Product specific: reference should be made to the SmPC guideline for stability at different temporary*
433 *storage conditions.]*

434

435 **6.4 Special precautions for storage**

436

437 *[Product specific]*

438

439 **6.5 Nature and contents of container**

440

441 *[Product specific]*

442

443 **6.6 Special precautions for disposal <and other handling>**

444

445 *[Product specific]*

446 The product should be brought to room or body temperature before use.

447 <Total reconstitution should be obtained within *[product specific time]*.>

448 <Reconstituted products should be inspected visually for particulate matter and discoloration prior to
449 administration.> The solution should be clear or slightly opalescent. Do not use solutions that are
450 cloudy or have deposits.

451 Any unused product or waste material should be disposed of in accordance with local requirements.

452

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454 **7. MARKETING AUTHORISATION HOLDER**

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456 *[Product specific]*

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459 **8. MARKETING AUTHORISATION NUMBER(S)**

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461 *[Product specific]*

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464 **9. DATE OF FIRST AUTHORISATION/RENEWAL OF THE AUTHORISATION**

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466 *[Product specific]*

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468 **Information related to the authorisation:**

469 **Paediatric Investigational Plan**

470 *[Product specific: The text should be in line with the Paediatric regulation and the SmPC guideline.]*

471

472

473 **10. DATE OF REVISION OF THE TEXT**

474

475 *[Product specific]*