

WAYMADE P L C			
Product Name	Carmustine		Colours Used
PIP Code	UK 675-7165-02	■	Black
Old PIP Code	GB 674-9618-PIL		
Variation No.	Drehm address update - impacting revision date		
Customer	Waymade PLC		
Market	UK		
Language	English		
Size	297 x 320 mm (PIL)		
Min. Font Size	8		
Version No.	2 (Page 2 of 2)		
Date	08/11/24		
File Name	Carmustine -UK 675-7165-PIL		

on the label and carton after EXP. The expiry date refers to the last day of that month.

Store in a refrigerator (2°C – 8°C). Do not freeze. Keep both the vials (active and solvent) in the outer carton in order to protect from light.

After reconstitution and dilution

After reconstitution, Carmustine Waymade is stable for 24 hours under refrigeration (2°C – 8°C), stored in a glass container and protected from light.

The reconstituted solution further diluted with either 500 ml of Sodium Chloride 9 mg/ml (0.9%) solution or 500 ml of Dextrose 50 mg/ml (5%) solution in glass or polypropylene container. It should be stored at room temperature, protected from light and utilized within 4 hours. These solutions are also stable for 24 hours under refrigeration (2°C – 8°C) and an additional 6 hours at room temperature and protected from light.

From a microbial point of view, unless the method of opening/reconstitution/dilution precludes the risk of microbial contamination, the product should be used immediately. If not used immediately, in-use storage times and conditions are the responsibility of the user.

Do not throw away any medicines via wastewater or household waste. Ask your pharmacist or doctor how to throw away medicines you no longer use. These measures will help protect the environment.

6. Contents of the pack and other information

What Carmustine Waymade contains

The active substance is carmustine. Each vial of powder for concentrate for solution for infusion contains 100 mg carmustine. After reconstitution and dilution, one ml of solution contains 3.3 mg carmustine.

Excipients:
- Powder: No excipients.
- Solvent: Ethanol anhydrous.

What Carmustine Waymade looks like and contents of the pack

One pack of Carmustine Waymade is a powder and solvent for concentrate for solution for infusion contains one vial with 100 mg of powder of Carmustine and one vial of 3 ml of solvent, Ethanol anhydrous.

The powder is lyophilized pale yellow flakes or congealed mass supplied in an amber glass vial. The solvent is a colourless clear liquid supplied in a clear glass vial.

Lyophilized pale yellow flakes or congealed mass for reconstitution.

Appearance of solution: The reconstituted solution is a clear, colourless to light yellowish solution.

Powder: Type I amber glass vial (30 ml) with a grey 20 mm bromobutyl rubber stopper with a blue flip-off matte top seal.

Solvent: Type I glass vial (5 ml) with a grey 13 mm chlorobutyl rubber stopper and sealed with blue flip-off matte top seal.

Marketing Authorization Holder and Manufacturer

Marketing Authorization Holder

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PL 06464/3116

This leaflet was last revised in November 2023.

The following information is intended for healthcare professionals only:

This information is a short description of preparation and/or handling, incompatibilities, posology of the medicine, overdose or monitoring measures and laboratory investigations based on the current SmPC.

The Carmustine Waymade powder for concentrate for solution for infusion contains no preservative and is not intended as multiple dose vial. Reconstitution and further dilutions should be carried out under aseptic conditions.

By following the recommended storage conditions, it is possible to avoid any decomposition of the unopened vial until the date of expiry mentioned on the packaging.

The dry frozen product does not contain any preservatives and is suitable only for one use. The lyophilisate can appear as a dry flakes or dry congealed mass. The presence of an oily film can be an indication of melting of the medicinal product. Such products are not accepted for use due to the risk of temperature excursions to more than 30°C. This medicinal product should not be used any further. When you are not clear about the fact whether the product is adequately cooled, then you should immediately inspect each and every vial in the carton. For verification, hold the vial in bright light.

Reconstitution and dilution for the powder for concentrate for solution for infusion

Dissolve the 100 mg Carmustine Waymade powder for concentrate for solution for infusion with 3 ml of the supplied sterile refrigerated ethanol anhydrous solvent provided in the carton. Carmustine must be completely dissolved in ethanol anhydrous before sterile water for injections is added. Then aseptically add 27 ml of sterile water for injections to the alcohol solution. The 30 ml stock solution needs to be mixed thoroughly. Reconstitution, as recommended, results in a clear, colourless to light yellowish solution.

Examine reconstituted vials for crystals formation prior to use. If crystals are observed, they may be re-dissolved by warming the vial to room temperature with agitation. After reconstitution, Carmustine is stable for 24 hours under refrigeration (2°C – 8°C), stored in a glass container and protected from light.

The reconstituted solution must be further diluted with either 500 ml of Sodium Chloride solution 9 mg/ml (0.9%) or 500 ml of Dextrose 50 mg/ml (5%) solution. The reconstituted and diluted solution (i.e. ready-to-use solution) should be mixed for at least 10 seconds before administration. The ready to use solution should be stored at room temperature in a glass or polypropylene container, protected from light and utilized within 4 hours. These solutions are also stable for 24 hours under refrigeration (2°C – 8°C) and an additional 6 hours at room temperature protected from light.

The pH and osmolality of ready-to-use solutions for infusion:

The pH of ready-to-use solutions for infusion is 4.0 to 6.8.

Method of administration

The reconstituted and diluted solution (i.e. ready-to-use solution) must be given intravenously and should be administered by intravenous drip over a one- to two-hour period and administration. Administration of the infusion should be performed using a PVC free PE infusion set or containers. During administration of the medicinal product, the container shall be of suitable glass ware or polypropylene container only. Ensure that the polypropylene containers used are PVC and DEHP free. Carmustine has a low melting point (30.5°C – 32.0°C or 86.9°F – 89.6°F). Exposure of this drug to this temperature or above will cause the drug to liquefy and appears as an oil film on the vials. This is a sign of decomposition and vials should be discarded.

Infusion of Carmustine Waymade over shorter periods of time may produce intense pain and burning at the site of injection. The injected area should be monitored during the administration.

Guidelines for the safe handling and disposal of antineoplastic agents must be observed.

Posology and laboratory investigations

Initial doses

The recommended dose of Carmustine Waymade as a single agent in previously untreated patients is 150 to 200 mg/m² intravenously every 6 weeks. This may be given as a single dose or divided into daily infusions such as 75 to 100 mg/m² on two successive days.

When Carmustine Waymade is used in combination with other myelosuppressive medicinal products or in patients in whom bone marrow reserve is depleted, the doses should be adjusted according to the haematologic profile of the patient as shown below.

Monitoring and subsequent doses

A repeat course of Carmustine Waymade should not be given until circulating blood elements have returned to acceptable levels (platelets above 100,000/mm³; leukocytes above 4,000/mm³), and this is usually in 6 weeks. Blood counts should be monitored frequently and repeat courses should not be given before 6 weeks because of delayed haematologic toxicity.

Doses subsequent to the initial dose should be adjusted according to the haematologic response of the patient to the preceding dose in both monotherapy as well as in combination therapy with other myelosuppressive medicinal products. The following schedule is suggested as a guide to dosage adjustment:

Nadir after Prior Dose		Percentage of prior dose to be given
Leucocytes/ mm ³	Platelets/ mm ³	
>4000	>100,000	100%
3000 - 3999	75,000 - 99,999	100%
2000 - 2999	25,000 - 74,999	70%
<2000	<25,000	50%

In cases where the nadir after initial dose does not fall in the same row for leucocytes and platelets (e.g. leucocytes >4000 and platelets <25,000) the value given the lowest percentage of prior dose should be used (e.g. platelets <25,000 then a maximum of 50% of prior dose should be given).

There are no limits for the period of application of carmustine therapy. In case the tumour remains incurable or some serious or intolerable adverse reactions appear, the carmustine therapy must be terminated.

Conditioning treatment prior to HPCT

Carmustine is given in combination with other chemotherapeutic agents in patients with malignant haematological diseases before HPCT at a dose of 300 - 600 mg/m² intravenously.

Special populations

Paediatric population

Carmustine must not be used in children aged <18 years because of safety concerns.

Elderly

In general, dose selection for an elderly patient should be cautious, usually starting at the low end of the dose range, reflecting the greater frequency of decreased hepatic, renal, or cardiac function, and of concomitant disease or therapy with other medicinal products. Because elderly patients are more likely to have decreased renal function, care should be taken in dose selection, and the glomerular filtration rate should be monitored and dose reduced according to this.

Renal impairment

For patients with renal impairment the dose of Carmustine Waymade should be reduced if the glomerular filtration rate is reduced.

Compatibility/incompatibility with containers

The intravenous solution is unstable in polyvinyl chloride containers. Do not use PVC containers. The Carmustine solution can be administered from glass ware or polypropylene container only. Ensure polypropylene containers used are PVC free and DEHP free.