

Patient information

Diphoterine Solution

St Pauls

What is diphoterine® and what is it used for?

Diphoterine solution is a washing solution designed for eye and skin chemical splashes. Diphoterine® has amphoteric, chelating, and hypertonic properties and as a result aims to minimise the development and severity of chemical burns.

Why use diphoterine® instead of water?

The chelating and amphoteric properties of diphoterine® allow it to bind chemically opposite compounds, limiting their ability to cause further damage. It is also hypertonic meaning it has a drawing out effect and can therefore assist to try and help remove some of the chemical that has already penetrated the tissue. Comparatively, water is hypotonic and has very little drawing effect on the chemical, limiting its ability to draw the chemical out of the deeper tissues.

Why is diphoterine® hypertonic?

Diphoterine® is hypertonic to try and help limit the penetration of the chemicals into deeper tissues. The hyperosmolar pressure creates a drawing effect from the inside to the outside tissues: as a result, the chemicals are then pulled out from the deeper tissue to the surface of the

skin or eye. Through this action, decontamination of the affected area is enhanced and accelerated.

Why is diphoterine® Amphoteric?

An amphoteric compound is a compound that is capable of binding opposing chemical substances such as acids, bases or oxidizers, reducing agents. As a result of the binding action, the chemicals are then 'disabled' and are unable to cause further damage.

The treatment process

To start decontamination, the affected area will need to be irrigated with diphoterine® Solution. This will wash away any harmful residues and help stop any further damage.

If there is no diphoterine® Solution, immediately available, use normal saline solution and then wash with Diphoterine® as soon as possible.

The doctor or nurse will then spray the affected area with a canister of diphoterine®. The spray can be likened to a cooling spray and feels like a light mist covering the affected area.

Post-treatment

The doctor may need to take the patient to theatre after the irrigation.

They will start eye drops and, in some cases, oral tablets may need to be commenced.

What side effects might I experience after diphoterine.

No side effects have been reported by the company's vigilance system.

Washing with diphoterine® may cause temporary ocular discomfort.

You may not suffer from any of these side effects but please inform your doctor or nurse if you do experience any.

Can I take my current medication with diphoterine?

It is important that you tell your doctor if you are taking any other medicines, including over the counter medications or herbal remedies.

Contraindications

There are no known negative interactions with the different families of medicines or devices and more specifically with ophthalmic solutions used in chemical burn protocols.

Diphoterine® is currently being tested for the treatment of chemical digestive burns but has not yet been validated. However, it has already been tested and classed as non-toxic if swallowed.

Do not use in cases of splashes due to white phosphorous.

Diphoterine® has a limited effect on hydrofluoric acid.

Who can I tell about my side effects?

If you have any questions about diphoterine please contact your pharmacist, doctor or nurse. Please report any side effects to the MHRA via the Yellow Card Scheme. Reports are confidential and help to improve the safety of medicines (<https://yellowcard.mhra.gov.uk/>).

Disclaimer

This leaflet does not replace the patient information leaflet issued with your medicines, but you should read it in conjunction with them.

Feedback

Your feedback is important to us and helps us influence care in the future.

Following your discharge from hospital or attendance at your outpatient appointment you will receive a text asking if you would recommend our service to others. Please take the time to text back, you will not be charged for the text and can opt out at any point. Your co-operation is greatly appreciated.

Further information

St Pauls Eye Emergency department

Tel: 0151 706 3949

Text phone number: 18001 0151 706 3949

Pharmacy Departments

Royal Liverpool Hospital

Tel: 0151 706 2092

Text phone number: 18001 0151 706 2092

Aintree Hospital

Tel: 0151 525 5980

Text phone number: 18001 0151 525 5980

Broadgreen Hospital

Tel: 0151 282 6056

Text phone number: 18001 0151 282 6056

Author: St Pauls
Review date: October 2028

All Trust approved information is available on request in alternative formats, including other languages, easy read, large print, audio, Braille, moon and electronically.

يمكن توفير جميع المعلومات المتعلقة بالمرضى الموافق عليهم من قبل انتمان المستشفى عند الطلب بصيغ أخرى، بما في ذلك لغات أخرى وبطرق تسهل قراءتها وبالحروف الطباعية الكبيرة وبالصوت وبطريقة برايل للمكفوفين وبطريقة مون والإلكترونية.

所有經信托基金批准的患者資訊均可以其它格式提供，包括其它語言、易讀閱讀軟件、大字體、音頻、盲文、穆恩體 (Moon) 盲文和電子格式，敬請索取。

در صورت تمایل می‌توانید کلیه اطلاعات تصویب شده توسط اتحادیه در رابطه با بیماران را به اشکال مختلف در دسترس داشته باشید، از جمله به زبانهای دیگر، به زبان ساده، چاپ درشت، صوت، خط مخصوص کوران، مون و بصورت روی خطی موجود است.

زانیاری پیوندیدار بهو نه‌خوشانه‌ی له‌لایمن تراسته‌وه په‌سهند کراون، نه‌گمر داوا بکرنیت له فورماته‌کانی تردا بریتی له زمانه‌کانی تر، نیزی رید (هاسان خویندنه‌وه)، چاپی گموره، شریتی دهنک، هیلی موون و ئلیکترونیکی همیه.

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