

Tablet Disintegrant

Polacrillin Potassium is typically used as a tablet disintegrant. The resin, in the dry powdered state, is incorporated into tablets containing drugs. On wetting, the resin swells by approximately 150%, thereby causing the tablet to disintegrate. Introduced many years ago into tablet formulations as a disintegration aid, it is still widely used either alone or, synergistically in conjunction with other products. In addition, the use of Polacrillin Potassium renders the tablets physically stronger and, therefore, easier to press.

Listed in the USP as “**Polacrillin Potassium**”, **Purolite C115KMR** is a dried, powdered, weak acid, polymethacrylic cation resin in the potassium form. **Purolite C115KMR** has a regulated Drug Master File with the FDA.

Taste & Odor Masking

A number of ion exchange resins and adsorbents can be used to mask the taste and /or the odor of medicines. The selected ion exchange resins or adsorbents are loaded with the active ingredients, which, following ingestion, are then desorbed.

For example, **Purolite C102DR** is a special, dried, carboxylic resin, which is used to mask the extremely bitter taste of certain cardio-tonics and anti-depressants

Controlled Drug Release

The controlled release of drugs is a vital factor in the treatment of many diseases, and the selection of drug carrier to ensure a steady, uniform, controlled release is dependent on the kinetics of drug adsorption and desorption, which, in turn, are influenced both by chemical and physical factors. Ion exchange resins and adsorbents have found use in desired drug release profiles. There are examples of cation and anion resins used not only for solid preparations and syrups for oral consumption, but also for lotions, ointments and powders for topical application.

USA

Telephone: (1) 610-668-9090
Fax: (1) 610-668-8139
Email: info@puroliteusa.com

© 2008 All Rights Reserved

Europe

Telephone: +44 1443 229334
Fax: +44 1443 227073
Email: sales@purolite.com

www.purolite.com

Asia Pacific

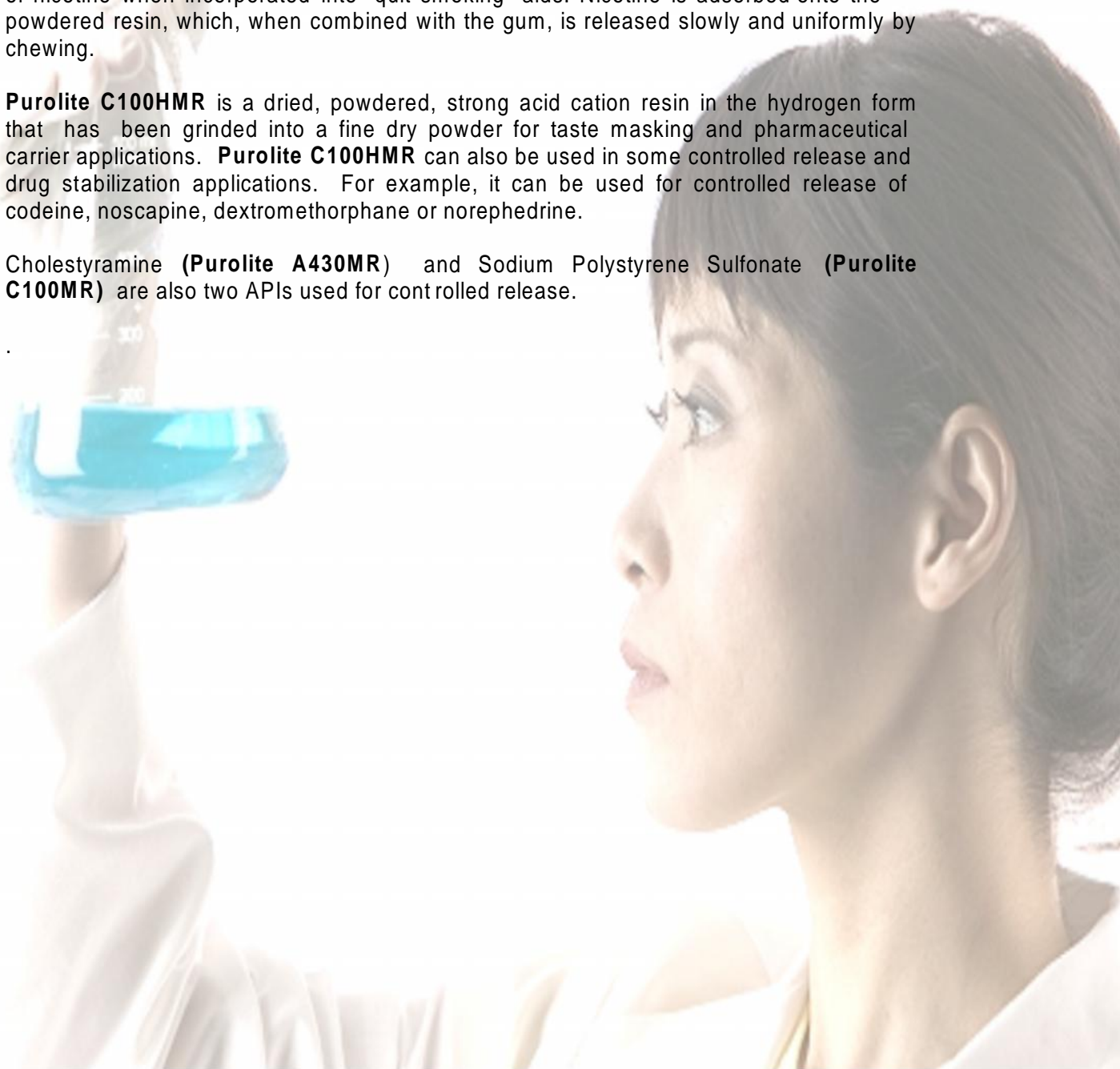
Telephone: +86 571 876 31385
Fax: +86 571 876 31385
Email: puroliteasia@purolitechina.com

AppNote_ExcipientIXPh_9-7-08

Purolite C115HMR is a dried, powdered, weak acid, polymethacrylic cation resin in the hydrogen form that has found particular application in the controlled, uniform release of nicotine when incorporated into “quit smoking” aids. Nicotine is adsorbed onto the powdered resin, which, when combined with the gum, is released slowly and uniformly by chewing.

Purolite C100HMR is a dried, powdered, strong acid cation resin in the hydrogen form that has been grinded into a fine dry powder for taste masking and pharmaceutical carrier applications. **Purolite C100HMR** can also be used in some controlled release and drug stabilization applications. For example, it can be used for controlled release of codeine, noscapine, dextromethorphan or norephedrine.

Cholestyramine (**Purolite A430MR**) and Sodium Polystyrene Sulfonate (**Purolite C100MR**) are also two APIs used for controlled release.



USA

Telephone: (1) 610-668-9090
Fax: (1) 610-668-8139
Email: info@puroliteusa.com

© 2008 All Rights Reserved

Europe

Telephone: +44 1443 229334
Fax: +44 1443 227073
Email: sales@purolite.com

www.purolite.com

Asia Pacific

Telephone: +86 571 876 31385
Fax: +86 571 876 31385
Email: puroliteasia@purolitechina.com

AppNote_ExcipientIXPh_9-7-08