

Derma-Keri; Dermoplast; Karmosan; Nutraplus; Uramol; **NZ:** Aquacare; Nutraplus; **Philipp.:** Nutraplus; **Port.:** Eucerin Pele Seca; Rebladerm; Ureadin 10 and 20; **Singapore:** Aqura; Balneum Intensiv; Euderm; Excipial U; Nutraplus; UO; Ucare; **Spain:** Nutraplus; **Swed.:** Calmuri; Canodem; Caress; Fenuli; Karbaderm; Karbasal; Monilen; **Switz.:** Carbamide Emulsion; Eucerin peau sèche; Excipial U; Linola Ufree; Nutraplus; Vita-Merfen; Soins dermatologiques; **Thai:** Balneum Intensiv; Nutraplus; **Turk.:** Excipial; Nutraplus; Urederm; **UK:** Aquadrate; Nutraplus; **USA:** Aquacare; Carmol; Gormel; Hydro 40; Kerafoam; Keralac; Kerol; Lanaphilic; Nutraplus; Rinnovi; Ultra Mide; Umecta; Ureacin; Ureaphil; Vanamide; **Venez.:** Aquaphor; Dermisol; Unicrim.

Multi-ingredient: **Arg.:** Aclac; Akerat; Aloebe; Cremisona; Cremsor N; Hidrolac; Lactiderm; Lactiderm HC; Lactocrem; Masivol Urea; Onikol; Oxidermos; Sadeltan Ft; Turgent Colageno; Turgent Emulsion; Ureadin Facial; Urecrem Hidro; Vansame; **Austral.:** Aussie Tan Skin Moisturiser; Calmurid; Curaderm; Dermadrate; Psor-Assist; SP Cream; **Austria:** Aleot; Calmurid; Calmurid HC; Canesten Bifonazol comp; Fungiderm comp; Ichth-Oestren; Keratosis; Keratosis forte; Mirfulan; Optiderm; **Belg.:** Calmurid; **Braz.:** Donnagel; Oticerim; Oto-Biotic; Tricolplex; Tricomax; Vagi Biotic; Vagi-Sulfa; **Canad.:** Amino-Cerv; Hydrophil; Kerasal; Uremol-HC; **Chile:** Akerat; Mycosporan Onyco; Ureadin 30; Ureadin Facial; Ureadin Forte; Ureadin Pediatrics; Ureadin Rx DB; Ureadin Rx PS; Ureadin Rx RD; **Cz.:** Betacorton U; Kerasal; Mycospor Sada na Nehty; **Fin.:** Calmuril; Wicarar; Wicarba; Wicnecarb; Wicnewit; **Fr.:** Akerat; Amycor Onychoset; Body Peel; Charbio Topicrem; Day Peel; Liperol; Night Peel; Pedi-Relax Anti-callosites; Provictol; PSO; Topic 10; **Ger.:** Balisa VAS; Brand-u; Wundgel-Medice N; Calmurid; Canesten Extra Nagelset; Carbamid + VAS; Fungidexan; Hydrodexan; Kelofibrase; Mirfulan; Mycospor Nagelset; Nubral 4; Nubral Forte; Oestrugol N; Optiderm; Psoradexan; Psoringerb N; Remederm; Ureata S; Ureacort + VAS; **Gr.:** Lyoderm; Ureacort; **Hong Kong:** Balneum Intensiv Plus; Dermadrate; **Hung.:** Reseptyl-Urea; Squa-med; **India:** Cotaryl; **Indon.:** Footy; **Irl.:** Alphaderm; Calmurid; Calmurid HC; **Israel:** Agisor Onychoset; Calmurid; Calmurid HC; Derma-Care; Keratopore; U-Lactin Foot Cream; U-Lactin Forte; **Ital.:** Al-tadrine; Eudermico; Ipso Urea; Kerallex; Optiderm; Verunec; Xerial; **Malaysia:** Balneum Intensiv Plus; Ucoret; **Mex.:** Eucerin Piel Seca/Reseca; Hidribet 5; Hidribet; Lowila; Mycospor Onicoset; Suavene; Urader Lactato; Ureaderm Lactato; **Neth.:** Calmurid; Calmurid HC; Symbial; **NZ:** Calmurid; Dermadrate; **Philipp.:** Remederm; **Pol.:** Hasceral; Keratolit; Mycospor Onychoset; Optiderm; SolcoKerasal; Sterovag; **Port.:** Calmurid; Camitol; Creme Laser Hidrante; Hidratoderme; Mycospor; U Lactin; Ureadin; Ureadin 10 Plus; Ureadin Facial; Ureadin Forte; Ureadin Maos; **Rus.:** Mycospor (Микоспор); **S.Afr.:** Calmurid HC; Covancaine; Mycospor Onycho-set; **Singapore:** Balneum Intensiv Plus; Dermadrate; Topicrem; U-Lactin; **Spain:** Cortisid Urea; Kanapomada; Mycospor Onicoset; **Swed.:** Fenuli-Hydrokortison; **Switz.:** Acne Gel; Antikeloides Creme; Betacortone; Calmurid; Calmurid HC; Carbamide + VAS; Carbamide Creme; Kerasal; Klyx Magnum; Optiderm; Sebo Creme; Sebo-Psor; Turexan Capilla; Turexan Lotion; **Thai:** Balneum Intensiv Plus; Gynestin; **Turk.:** Betacorton; Kerasal; Mycospor; Ureacort; **UK:** Alphaderm; Anti-peol; Balneum Plus; Calmurid; Calmurid HC; Cymex; E45 Itch Relief; St James Baln; Vesagex Heelbalm; **USA:** Accuzyme; AllanEnzyme; AllantilEnzyme; Amino-Cerv; Ethezyme; Gladase; Gladase-C; Hydrocortin Plus; Kovia; Panafil; Panafil-White; Pap-Urea; Rosula; Rosula NS; Ziox; Zoderm; **Venez.:** Akerat; Caduini; Hidribet; Hidribet 5/5; Mycospor Onicoset; Pantonic; Pelsel Plus; Ureaderm Lactato; Urinmet; Unisalic.

Ustekinumab (USAN, pINN)

CNTO-1275; Ustékinumab; Ustekinumabum. Immunoglobulin G1, anti-(human interleukin-12 subunit beta (IL-12B, CLMF p40, NKSF2)) (human monoclonal CNTO 1275 γ 1-chain), disulfide with human monoclonal CNTO 1275 κ -chain, dimer.

Устекинумаб

CAS — 815610-63-0.

Profile

Ustekinumab is a human monoclonal antibody that binds to interleukins 12 and 23. It is under investigation in the treatment of psoriasis.

References.

- Krueger GG, *et al.* A human interleukin-12/23 monoclonal antibody for the treatment of psoriasis. *N Engl J Med* 2007; **356**: 580–92.
- Leonardi CL, *et al.* Efficacy and safety of ustekinumab, a human interleukin-12/23 monoclonal antibody, in patients with psoriasis: 76-week results from a randomised, double-blind, placebo-controlled trial (PHOENIX 1). *Lancet* 2008; **371**: 1665–74. Correction. *ibid.*; 1838.
- Papp KA, *et al.* Efficacy and safety of ustekinumab, a human interleukin-12/23 monoclonal antibody, in patients with psoriasis: 52-week results from a randomised, double-blind, placebo-controlled trial (PHOENIX 2). *Lancet* 2008; **371**: 1675–84.

Zinc Carbonate (USAN)

Zinc, carbonato de.

Карбонат Цинка; Углекислый Цинк

$ZnCO_3$ = 125.4.

CAS — 3486-35-9.

Basic Zinc Carbonate

Zinc, carbonato básico de.

Основный Карбонат Цинка; Основный Углекислый Цинк

NOTE. The names zinc carbonate, hydrated zinc carbonate, zinc subcarbonate, and zinc carbonate hydroxide have all been applied to basic zinc carbonate of varying composition occurring naturally or produced by the reaction of a soluble zinc salt with sodium carbonate.

Pharmacopeias. In *US*.

USP 31 (Zinc Carbonate). It corresponds to $3Zn(OH)_2 \cdot 2ZnCO_3$ containing the equivalent of not less than 70% ZnO. Store in airtight containers.

Profile

Zinc carbonate is mildly astringent and protective to the skin and is used topically, mainly in the form of calamine (p.1591), in a variety of skin conditions. In the USA the name calamine is used for zinc oxide (rather than zinc carbonate) with a small proportion of ferric oxide.

Preparations

Proprietary Preparations (details are given in Part 3)

Multi-ingredient: **Fr.:** Pygmal.

Zinc Oxide

Blanc de Zinc; Blanco de zinc; Cinko oksidas; Çinko Oksit; Cink-oxid; Cynku tlenek; Flores de zinc; Flowers of Zinc; Oxid zinečnatý; Sinkkioksid; Zinc, óxido de; Zinc, oxyde de; Zinci oxidum; Zinci Oxydum; Zincum Oxydatum; Zinkoxid.

Оксид Цинка; Цинк Оксид

ZnO = 81.38.

CAS — 1314-13-2.

NOTE. 'Zinc White' is a commercial form of zinc oxide used as a pigment.

Pharmacopeias. In *Chin., Eur.* (see p.vii), *Int., Jpn, US*, and *Viet*.

US also includes a neutral zinc oxide.

Ph. Eur. 6.2 (Zinc Oxide). A white or faintly yellowish-white, soft, amorphous powder, free from gritty particles. Practically insoluble in water and in alcohol; it dissolves in dilute mineral acids.

USP 31 (Zinc Oxide). A white or yellowish-white, odourless, amorphous, very fine powder, free from grittiness. It gradually absorbs carbon dioxide from air. Insoluble in water and in alcohol; soluble in dilute acids.

USP 31 (Zinc Oxide, Neutral). It is for use in sunscreen preparations only.

Incompatibility. Black discoloration has been reported when zinc oxide and glycerol are in contact in the presence of light.

Profile

Zinc oxide is mildly astringent and is used topically as a soothing and protective application in eczema and slight excoriations, in wounds, and for haemorrhoids. It is also used with coal tar (p.1616) or ichthammol (p.1599) in the treatment of eczema. Zinc oxide reflects ultraviolet radiation and is used as a physical sunscreen (see p.1576).

In the USA the name calamine is used for zinc oxide with a small proportion of ferric oxide.

Zinc oxide is used as the basis for the production of a number of dental cements. Mixed with phosphoric acid it forms a hard material composed largely of zinc phosphate; mixed with clove oil or eugenol, it is used as temporary dental filling.

For further details of zinc and its salts, see p.1999.

Complications of dental use. Solitary aspergillosis of the maxillary sinus in 29 of 30 patients was associated with zinc ox-

ide from overfilled teeth.¹ Treatment consisted of removal of the fungal ball containing the zinc oxide; no antifungal treatment was necessary. Zinc oxide has been shown to accelerate the growth of *Aspergillus fumigatus*. Further cases have been reported, and adjunctive systemic antifungal treatment has been used.²

- Beck-Mannagetta J, *et al.* Solitary aspergillosis of maxillary sinus, a complication of dental treatment. *Lancet* 1983; **ii**: 1260.
- Martins WD, Ribeiro Rosa EA. Aspergillosis of the maxillary sinus: review and case report. *Scand J Infect Dis* 2004; **36**: 758–61.

Preparations

BP 2008: Aqueous Calamine Cream; Calamine and Coal Tar Ointment; Calamine Lotion; Coal Tar and Zinc Ointment; Coal Tar Paste; Compound Aluminium Paste; Compound Zinc Paste; Dithranol Paste; Hexachlorophene Dusting Powder; Zinc and Castor Oil Ointment; Zinc and Coal Tar Paste; Zinc and Ichthammol Cream; Zinc and Salicylic Acid Paste; Zinc Cream; Zinc Ointment;

USP 31: Calamine Topical Suspension; Coal Tar Ointment; Compound Resorcinol Ointment; Zinc Oxide and Salicylic Acid Paste; Zinc Oxide Ointment; Zinc Oxide Paste.

Proprietary Preparations (details are given in Part 3)

Arg.: Balmex; Caladaryl Panaf; Dermic; Pasta Dermic; Sinamida-D; Zincoxid; **Austral.:** Curash Anti-Rash; Prickly Heat Powder; Rectogesic; Ungvita; Zinc Cream White; Zincaband; Zink'N'Swim; **Canad.:** Aveeno Diaper Rash; Baby's Own Ointment; Egzoic; Infazinc; Johnson's Diaper Rash; Johnson's Medicated; Triple Care Cream; Woodward's Diaper Rash; Zincoderm; Zincofax; **Chile:** Nenegloss Z; **Denm.:** Zipzoc; **Fin.:** Zipzoc; **Fr.:** Babygella; Filorga Soins Ecran Solaire; Mylange Creme; Oxyplastine; Senophile; Veinopress A3 and A4; **Ger.:** Cutaninfant; Desitin; Fissan-Zinkschüttelmixtur; Labiosan; Pantederma N; Pinal S; Retterspitz Heilsalbe ST; Robuvalent; St. Jakob-Balsam; Zinkpaste; Zinksalbe Dialon; Zinksalbe Lichtenstein; **Hong Kong:** Desitin Daily Care; **India:** Belle Cream; **Irl.:** Viscopaste; Zipzoc; **Israel:** Dyprotex; Lotio Zinc; Lotio Zinc; Zinc Lotion; **Ital.:** Ceromexed Tex; Delicate Skin Pasta; Gelocast; Gelostretch; Milsana; Oz; Scherilan Crema; Sicura3 Fisionorm; Tayderm; Tendigrip; Triderm Crema; Triderm Zeta; Varicex; Viscopaste PB7; Zincos All' Acqua; Zincoderm; **Mex.:** Pasta de Lassar; Rosatil BB; Saniderm; **Neth.:** Daroderma Zinkzalf; Zinkolie; Zinkzalf; Zipzoc; **Philipp.:** Curash; Desitin; Spectraban 19; **Port.:** Lassaderm; Oleo Dermosina Simples; Zincoderma; Zipzoc; **Rus.:** Desitin (Деситин); **S.Afr.:** Clocktower; Johnson's Baby Nappy Rash Ointment; Vernleigh Baby Cream; Viscopaste PB7; **Singapore:** Desitin; **Spain:** Anticongestiva; Zipzoc Salvatrumpa; **Switz.:** Oxyplastine; Pelsano; Pom-made Congo; ZinCream; **Thai:** Nappy-Hippo; Spectraban; **UAE:** Proskin; **UK:** Steripaste; Viscopaste PB7; Zincaband; Zipzoc; **USA:** Borofax; Delazinc; Diaparene Diaper Rash; Dr Smiths; Nupercainal; Triple Paste; **Venez.:** Lanol-Zinc; Oxyphar.

Multi-ingredient: numerous preparations are listed in Part 3.

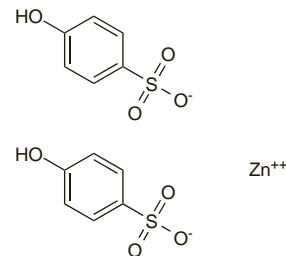
Zinc Phenolsulfonate

4-Hydroxibencenosulfonato de zinc; Phenozin; Zinc, fenosulfonato de; Zinc 4-Hydroxybenzenesulphonate; Zinc Phenolsulphonate. Zinc p-hydroxybenzenesulphonate.

Сульфенолат Цинка; Фенолсульфонат Цинка

$C_{12}H_{10}O_8S_2Zn$ = 411.7.

CAS — 127-82-2.



Profile

Zinc phenolsulfonate has astringent properties and has been used in multi-ingredient preparations applied topically for the treatment of a variety of disorders.

Preparations

Proprietary Preparations (details are given in Part 3)

Multi-ingredient: **Arg.:** Ginesepina; **Braz.:** Lerin; Neo Quimica Colirio; Visazul; **Ital.:** Antisettico Astringente Sedativo; Oftalmil; **USA:** BFL.