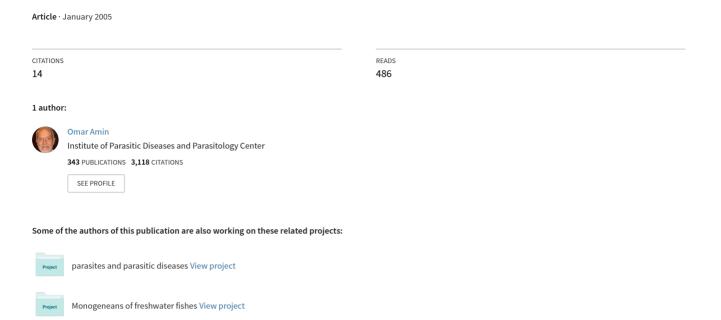
Dental products causing Neuro-cutaneous Syndrome (NCS) symptoms in NCS patients



Dental Products Causing Neuro-Cutanious Syndrome (NCS) Symptoms In NCS Patients

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Abstract

Neurocutaneous Syndrome (NCS) was recently described from many patients showing dermatological and neurological disorders. Certain dental materials, especially sealants, were documented to be the causative agents of this syndrome. A comprehensive listing of about 350 more dentals products than originally reported is included herein. It is recommended that dentists research MSDS sheets for proposed dental materials to be used, and match blood bio-compatibility test results with patients' dental history before embarking on, at least major, dental procedures.

Introduction

Neurocutaneous Syndrome (NCS) was first described by Amin. A detailed diagnosis and notes on its management with three case histories were reported by Amin^{2,3} and the clinical histories of 24 NCS patients diagnosed at the Parasitology Center, Inc. (PCI) were included in Amin. Seven of the 24 cases reported in Amin who followed and completed the PCI rehabilitation protocols summarized in the same publication have completely recovered. An additional two have also recovered since. The cause-effect relationship was established. This presentation documents many more dental sealants than originally reported in Amin. ²⁻⁴

Materials and Methods

The active toxic ingredients established as the causal factors for NCS observed in many of our patients were researched using actual patient histories, symptomology and MSDS sheets of dental materials used. About 350 additional dental products including the same toxic ingredients were also similarly studied and reported herein.

Results and Discussion

The components in catalysts and bases of the sealants Dycal, Life and Sealapex were identified in Amin^{2,3} who provided an analysis of the nature of action of the included toxic ingredients causing the observed dermatological and neurological symptoms in NCS patients. Reference was also made to Fynal, IRM, Sultan U/P, Gluma One Bond and Scotch Bond by Amin.³ These dental products and over 350 others are now recognized as toxic. Toxicity and individual reactivity will vary from person to person depending on degree of sensitivity to the compounds which is related to the concentration of the toxic ingredient(s) in the product, amount of product used and the number of teeth involved.

About 360 dental compounds are included in this paper. The toxic ingredients common to all belong in four major categories: Zinc Oxide, Ethyltoluene Sulfonamide (especially in patients with allergy to sulfa and toluene), Titanium Dioxide and other metal compounds (especially in patients with allergy to metals) and Methacrylate compounds as well as Calcium Hydroxide. Our studies of the many NCS patients examined indicate that these ingredients are causally associated with their symptoms. It should be noted that the included list is not comprehensive but rather preliminary. Undoubtedly, more dental products include these ingredients. I have concluded, however, that the listing of more dental compounds will not make the point any stronger at this time. Dentists should be only satisfied when identifying a toxic ingredient in a dental product whether it is included in this list or not. It is therefore important that dentists examine the MSDS of products to be used, especially in major procedures, and insure their biocompatibility to patients' biological as well as energy systems.

⁴ Amin OM, Neuro-cutaneous Syndrome (NCS): a new disorder. Explore 10:55.56, 2001 ² Amin OM, On the diagnosis and management of neurocutaneous syndrome, a toxicity disorder from dental sealants. Calif Dent Assoc J 32: 657-663, 2004. ³ Amin OM, Dental sealant toxicity: neurocutaneous syndrome (NCS), a dermatological and neurological disorder. Hol Dent Assoc J 2004: 1-10 + table, 2004. ⁴ Amin OM, On the course of neurocutaneous syndrome (NCS) and its pseudo-diagnosis by medical professionals. Explore! 13: 4-9, 2004

The following is a listing of the dental products studied and their toxic ingredients.

A-paste, clearfil DC3 cement: hydrophobic dimethacrylate, bisphenol a diglycidylmethacrylate, triethyleneglycol dimethacrylate

Absolute Dentin (All Shades) uncured methacrylate ester monomers

Access crown: urethane dimethacrylate

Acrylic Primer: methyl methacrylate

Activator, clearfil porcelanin bond: bisphenol a polyethoxy dimethacrylate, 3-methacryloyloxypropyl trimethoxy

Adper: dimethacrylates

Add&Bond: uncured methacrylate

Adhesive Bond II: methacrylates, maleic-acidmono-2-methacryloyl-oxyethylester

Adper prompt self-etch adhesives: methacrylated phosphoric esters, 20hydroxyethyl methacrylate (hema)

Aelite Aesthetic enamel: ethoxylated bisphenol a diglycidylmethacrylate

Aelite Liner Base:
bisphenol a diglycidylmethacrylate,
ethoxylated bisphenol a dimethacrylate

Aelite Liner Catalyst:
bisphenol a diglycidylmethacrylate,
triethyleneglycol, triethyleneglycol
dimethacrylate

Aelite Purpose Body:
ethoxylated bisphenol
a dimethacrylate, triethyleneglycol
dimethacrylate

Aelite Posterior: ethoxylated bisphenol a dimethacrylate

Aelite Packable Dentin: ethoxylated bisphenol a dimethacrylate

Aeliteflo / Aeliteflo LV: ethoxylated bisphenol a dimethacrylate, triethyleneglycol dimethacrylate AH 26 Power: titanium dioxide

Alginate Impression Materials: potassium titanium fluoride

All-Bond 2: dimethacrylates

All-Bond 2 Primer A: na-n-tolylglycine glycidylmethacrylate

All Bond 2 Primer B: biphenyl dimethacrylate

Alloy primer: 10- methacryloyloxydecyl dihydrogen phosphate

Amalgam Bonding Base and Catalyst: ethoxylated bisphenol a dimethacrylate, triethyleneglycol dimethacrylate

Amalgambond HPA Powder: poly methyl methacrylate

Anchor:

Mixture of methacrylate resins,
including bisgma

Aquasil monophase: titanium dioxide

Aquasil Rigid: titanium dioxide

Aquasil XLV: titanium dioxide

Aquasil Putty: titanium dioxide

Aquasil LV: titanium dioxide

Aquasil Deca Monophase: titanium dioxide

Aquasil Deca Heavy: titanium dioxide

ArtGlass: methacrylates

ArtGlass connector: methyl methacrylate

ArtGlass Creative Colorfluids: methacrylates

ArtGlass Liquid: trimethylolpropanethoxytriacrylate

ArtGlass Opaque: trimethylolpropanethoxytriacrylate ArtGlass Creative Transpafluid TF1: methacrylates

ArtGlass Creative Transpafluid TF2: methacrylates

Attachment bond base: methacrylates

Attachment bond cat: methacrylates

Aurora Visible Light Curing Custom Tray Resin Liquid: methyl methacrylate

B-paste, clearfil DC cement: hydrophobic dimethacrylate, bisphenol a diglycidylmethacrylate, triethyleneglycol dimethacrylate, hydrophilic dimethacrylate

Band-Rite: methacrylate resins

Barricaid: urethane dimethacrylate resin

Bis- Core Dual Cure Catalyst: bisphenol a diglycidyl methacrylate, triethyleneglycol dimethacrylate

Bisfil core: methacrylates

Bisfil II base paste: dimethacrylates, methacrylates

Bisfil 2B: dimethacrylates, methacrylates

Bis-GMA Composite: bisphenol a-glicidyl methacrylate resin

Blocset Liquid: methacrylates

Blocset paste: methacrylates

Bond 1: dimethacrylates

Bond liquid, clearfil protect bond: bisphenol a diglycidylmethacrylate, 20 hydroxyethyl methacrylate, hydrophobic dimethacrylate, n,n-diethanol-p-toluidine

Bond liquid A, clearfil liner bond 2v: bisphenol a diglycidylmethacrylate, 2- hydroxyethyl methacrylate, hydrophobic dimethacrylate, n,n- diethanol-p-toluidine

Bond liquid B, clearfil liner bond2v: bisphenol a diglycidylmethacrylate, 2- hydroxyethyl methacrylate, hydrophobic dimethacrylate

Brush & Bond: methyl methacrylate, 2-hydroxyethyl methacrylate (hema)

Calcigel: calcium hydroxide

Calplus: calcium hydroxide

Calcium Hydroxide Powder: calcium hydroxide

Calibra:

polymerizable dimethacrylate resin,
titanium dioxide

Calciject:

calcium hydroxide

Catalyst liquid, clearfil new bond:
bisphenol adiglycidylmethacrylate,
10- methacryloyloxydecyl
dihydrogen phosphate,
2- hydroxyethyl methacrylate,
hydrophobic dimethacrylate

Catalyst liquid, clearfil photo bond: bisphenol a diglycidylmethacryylate, 10 - methacryloyloxydecyl dihydrogen, 2-hydroxyethyl methacrylate, hydrophobic dimethacrylate

Catalyst paste, clearfil core new bond: triethyleneglycol dimethacrylate, bisphenol a diglycidylmethacrylate

Catalyst paste, panavia 21:
bisphenol a polyethoxy
dimethacrylaite, 10-methacryloyloxydecyl dihydrogen phosphate,
hydrophobic dimethacrylate

Cavalite: hydroxyethylmethacrrylate, dimethacrylates

Cavitec Base: zinc oxide

Cavit: zinc oxide

Cavity liner (PCL): calcium hydroxide

C & B Cement Catalyst: bisphenol a diglycidylmethacrylate, triethyleneglycoldimethacrylate C & B Cement Base, Opaque, Natural and Natural with fluoride: bisphenol a diglycidylmethacrylate, ethoxylated bisphenol a dimethacrylate

Charisma/Charisma: methacrylates

Charisma Creative Colorfluids: methacrylates

Choice Dual-Cure Liquid Catalyst: bisphenol diglycidylmethacrylate

Chromackone Alginate Impression Materials: potassium titanium fluoride

Citricon Base Paste: Zinc Oxide

Choice Aesthetic Resin Cement Base And Paste catalyst: bisphenol diglycidylmethacrylate

Clearfil AP-X PLT: bisphenol a diglycidylmethacrylate, triethyleneglycol dimethacrylate

Clearfil S3:
2-hydroxyethyl methacrylate,
bisphenol a diglycidylmethacrylate,
10-methacryloyloxydecyl

Clearfil SE Bond:
2-hydroxyethyl methacrylate,
dimethacrylates,
10 methacryloyloxydecyl

Clearfil SE Primer: 2-hydroxyethyl methacrylate, dimethacrylates

Clearfil st opaquer:
bisphenol a diglycidylmethacrylate,
triethyleneglycol dimethacrylate

Clearfil-S-Bond:
2-hydroxyethyl methacrylate,
bisphenol a diglycidylmethacrylate,
10-methacryloyloxydecyl

Cohen Luks Root Canal Powder: zinc oxide

Coltosol F: zinc oxide

Cool Natural: methacrylates

Cool Temp: methacrylates

Composite, clearfil photo core: bisphenol a diglycidylmethacrylate, triethvleneglycol dimethacrylate Comspan & Comspan Opaque: polymerizable dimethacrylate resin, titanium dioxide

Contax Bond/Primer: aromatic dimethacrylate, p olyol-mono,- dimethacrylate, polycarboxylic polymethacrylate

Contemporary Colored Ortho-Jet Liquid: methyl methacrylate, n,n-dimethyl-p-toluidine

Contemporary Colored Ortho-Jet Powder: plasticized methacrylate polymer

Core-Flo Base/ Catalyst:
ethoxlated bisphenol
a dimethacrylate,
triethyleneglycol dimethacrylate,
bisphenol a diglycidyl methacrylate

Corestore 2 Paste Products (restorative composite):
uncured methacrylate ester monomers

CRCS: calcium hydroxide, zinc oxide

D/E Resin:
bisphenol diglycidylmethacrylate,
urethane dimetyhacrylate,
hydroxyethyl methacrylate

Dentacolor:

dodecandioldimethacrylate

Dentacolor Creative Colorfluids: methacrylates

Dentacolor Connector: methyl methacrylate

Dentacolor Modeling Liquid: methacrylates

Dentacolor Opaquer Liquid: methyl methacrylate

Dentacolor Creative Transpafluid T1: methacrylates

Dentacolor Creative transpafluid T2: methacrylates

Dentalis KEZ:

zinc oxide and calcium hydroxide

Dentalon plus liquid: n-butyl methacrylate, ethyl methacrylate

Dentalon plus powder: benzyl-5-phenylbarbiturs ure:

Denthesive II B: hydroxyethyl methacrylate

Dentpro: zinc oxide-eugenol cement

Desenzal:
hydroxyethyl methacrylate n/e n/e

Doc's best root canal sealer with copper: zinc oxide

DT Temporary Dressing: calcium hydroxide

DUO-Link Base/Catalyst: bisphenol a diglycidyl methacrylate, triethyleneglycol dimethacrylate, urethane dimethacrylate

DuraFill: methacrylates

Durelon: zinc oxide

Dycal:
calcium hydroxide, ethyltoluene
sulfonamides, zinc oxide, titanium
dioxide, barium sulphate

Dyract: urethane dimethacrylate resin, polymerizable trimethacrylate resin

Ed Primer II-liquid A, panavia F 2.0: 2-hydroxyethyl methacrylate, 10-methacryloyloxydecyl, dihtdrogen phosphate, n-methacryloyl 5-aminosalicylic acid, n,n-diethanol p-toluidine

Ed Primer II-liquid B, panavia 2.0: n-methacryloyl 5-aminosalicylic, n,n-diethanol p-toluidine

Ed Primer-liquid A, panavia 21: 2-hydroxyethyl methacrylaye, 10-methacryloyloxydecyl dihydrogen phosphate, n- methacryloyl 5-aminosalicylic acid, n,n-diethanol p- toluidine

Ed Primer liquid B, panavia 21: n-methacryloyl 5-aminosalicylic acid, n,n-diethanol p-toluidine

Elan (Restorative Composite): uncured methacrylate ester monomers

Electric Ortho-Jet Powder: methacrylate copolymer

Embrace WetBond Class V (EMV, EMVA2, EMVA35, EMVB2, EMVD2): acrylate resins Embrace WetBond First Coat (EMFC):

acrylate resins

Embrace WetBond Opaquer (EMOP):

acrylate resins

Embrace WetBOnd Pit and Fissure Sealant (EMS,EMS3,EMSW,EMSW3): acrylate resins

Embrace WetBond Seal-n-Shine (EMSNS,EMSNY): acrylate resins

Embrace WetBond Universal resin cement (EMCA,EMCAR,EMCS,EMCSR): acrylate resins

Encore AF:
bisphenol diglycidyl methacrylate,
triethylene glycol methacrylate

Encore Bond: diutethane dimethacrylate, hydroxyethyl methacrylate

Epic-AP: methacrylate monomers (bi-functional)

Epic-TMPT Composite: di-2-methacryloxethyl

3M ESPE Clinpro: bisphenol A diglycidyl, triethylene glycol dimethacrylate, titanium dioxide

Estic Bond Base: methacrylates, (4-methylphenyl) imino bisethanol

Estic Bond Cat: methacrylate

Estic Microfill Base: methacrylates

Estic Microfill Cat: methacrylates

Esthet. X Flow: titanium dioxide, urethane modified bis-gma dimethacrylate, polymerizable dimethacrylate resin

Estiseal LC: methacrylates

Etch-Free Components A&B: methyl methacrylate

Fi-cem Paste Alecks Zinc (Mizzy): zinc oxide

Fill In Base Paste Products (Temporary Crown and Bridge Material): uncured methacrylate ester, methyl methacrylate monomers

Fill In Catakyst Paste (Temporary Crown and Bridge Material): uncured methacrylate ester monomers

Filtek: dimethacrylates

Filtek Z100: methacrylates

Filtek Z250: dimethacrylates

Flexacryl Hard Liquid: n-butyl methacrylate, dimethyl-p-toluidine

Flexacryl Soft Liquid: n-butyl methacrylate, dimethyl-p-toluidine

Flexacryl Powder: plasticized methacrylate polymer

Flows-Rite: methacrylate resins

Fluroshield: titanium dioxide, polymerizable dimethacrylate resin, urethane modified bis-gma dimethacrylate

Formatray Liquid (Custom Tray Material):

methyl methacrylate monomers

Fortify:
urethane dimethacrylate,
ethoxylated bisphenol a dimethacrylate

Fortify Plus: urethane dimethacrylate, ethoxylated bisphenol A dimethacrylate

Fuji 2: hydroxyethyl methacrylates

Fuji: 2-hydroxyethyl-methacrylates

Fynal Liquid:

zinc oxide eugenol permanent
cement

Fynal Powder: zinc oxide

Gluma Comfort Bond: 2-hydroxyethyl-methacrylates

Gluma One Bond: 2-hydroxyethyl-methacrylates

Gold Alloys (Noble): allergy to some alloys

Guardian Seal: methacrylates

Gutta Flow: zinc oxide

Gutta Percha: zinc oxide

Hard Core: methacrylate resins

Heliomolar: dimethacrylates

HEMA Composite: hydroxy ethyl dimethacrylate

Herculite XR Paste Products: uncured methacrylate ester monomers

Herculite XRV Paste Products (restorative composite):
uncured methacrylate ester monomers

High Impact-45
Denture Acrylic Liquid:
methyl methacrylate,
trimethylolpropane, trimethacrylate

Histocryl: hydrophilic methacrylate, methacrylate ester

Hi-X Base: dimethacrylates

Hy-Bond (shofu): zinc oxide

Hydrosil XT: calcium sulfate, titanium dioxide

Hypocal SN: calcium hydroxide

Ideal Light Cure Bracket Adhesive: methacrylates

Illusion Base:
ethoxylated bisphenol A
dimethacrylate, triethyleneglycol
dimethacrylate

Illusion Catalyst:
bisphenol A diglycidylmethacrylate,
triethyleneglycol dimethacrylate

Illusion Color Modifier: triethyleneglycol dimethacrylate

Illusion Viscosity Modifier: ethoxylated bisphenol A dimethacrylate Immediate Liquid: methyl methacrylate

Instant Tray Mix Liquid: methyl methacrylate, n,n-dimethyl-p-toluidine

Instant Tray Mix Powder: methyl methacrylate/ethyl acrylate

Integrity:
multifunctional methacrylates

Ionosit Baseliner: aliphatic dimethacrylate, aromatic dimethacrylate, polycarboxylic polymethacrylate

IRM powder: zinc oxide

Jet Acrylic Powder-Jet Tooth Shade, Jet Denture Repair, Ortho-Jet: plasticized methacrylate polymer

Jet Adjuster Brush Cleaner: methyl methacrylate

Jet Liquid, Ortho-Jet Liquid: methyl methacrylate, n,n-dimethyl-p-toluidine

Jet Seal: methyl methacrylate

Jet Tray Liquid: methyl methacrylate, n,n-dimethyl-p-toluidine

Jet Tray Powder: plasticized methacrylate polymer

Kevloc Primer: methacrylates

Kolor +: uncured methacrylate ester monomers

Life:
zinc oxide, ethyltoluene sulfonamide, calcium hydroxide, titanium
dioxide, barium sulphate

Light Core:
bisphenol diglycidylmethacrylate,
ethoxylated bisphenol
a dimethacrylate

Light Cure Dental Composite (Ecusphere):

urethane dimethacrylate,
aliphatic dimethacrylate,
aromatic dimethacrylate

Light Cure Dental Composite: urethane dimethacrylate, aliphatic dimethacrylate, aromatic dimethacrylate Light Cure Dental Composite (Ecusit):

urethane dimethacrylate, aliphatic dimethacrylate, aromatic dimethacrylate

Light Cured Space Maintainer Syringe:

aromatic aliphatic dimethacrylate monomers

LR Gold:

dimethacrylate resin, methacrylate
ester, dimethyl para toluidine

LR White:
dimethacrylate resin, methacrylate
ester, dimethyl para toluidine

LuxaBite:
urethane dimethacrylate, aromatic
dimethacrylate, glycol methacrylate

LuxaCore,LuxaCore Dual: urethane dimethacrylate, aliphatic dimethacrylate, aromatic dimethacrylate

Luxatemp, Luxatemp Solar, Luxatemp Fluorescence:
urethane dimethacrylate,
aromatic dimethacrylate,
glycol methacrylate

Magic Fil: aliphatic dimethacrylate, aromatic dimethacrylate, carboxylic methacrylate

Matrix Carbio adhesive: glycerol dimethacrylate

Matrix Cabrio Catalyst: n-toluene glycine, glycidil methacrylate

Maxcem Paste Products: uncured methacrylate ester monomers

Metal Primer: alkyl dimethacrylate resins

Modern Tenacin: zinc oxide

Modeling Resin: urethane dimethacrylate, ethoxylated bisphenol a dimethacrylate

Mucosoft Adhesive Agent: methyl methacrylate

Multi-Cal (Multi, Multi-3): calcium hydroxide

Nexus 2 paste products: uncured methacrylate ester monomers Nickle or Cobalt-chrome (Base-metal) Alloys: nickel allergies are common

among women.

One Coat Bond: hydroxyethylmethacrylate,

methacrylates
One-UP Bond F Bonding Agent A:
methacrylates

One Step: biphenyl dimethacrylate, hydroxyethyl methacrylate

One Step Plus: biphenyl dimethacrylate, hydroxyethyl methacrylate

Opaker: uncured methacrylate ester monomers

Optibond Dual Cure Activator Resin: uncured methacrylate

Optibond Solo: dimethacrylates

Optiguard: methacrylates

Orafil-Plus: zinc oxide

Orafil-G: zinc oxide

Ortho-Choice OBA: methacrylate resins

Ortho-Jet Tinting Concentrate: methyl methacrylate, n,n-dimethyl-p-toluidine

Palabond: methyl methacrylate, methacrylic acid

Paladon 65 Liquid: methacrylates

Paladon 65 Powder: methacrylate copolymerisates

Paladur Liquid: methyl methacrylate

Paladur Powder: methacrylate copolymerisates

Palapress Vario Liquid: methyl methacrylate, ethylene dimethacrylate

Palapress Vario Powder: methacrylate copolymerisates

Palaseal: methyl methacrylate

Palavit G LC K I: triethylenglycoldimethacrylate

Palavit G LC Modelling Liquid: triethylenglycoldimethacrylate

Palavit 55 VS Liquid: methyl methacrylate

Parabond adhesive A: hydroxyethylmethacrylate, methacrylates

ParaPost Cement Base: methacrylates

ParaPost Cement Catalyst: methacrylates

ParaPost Cement Conditioner A: hydroxyethylmethacrylate, methacrylates

PDMA Composite: polycarbonate dimethacrylate resin

Perfectemp II Temporary Cement: urethane dimethacrylate, aromatic dimethacrylate, glycol methacrylate

Permacem, Permacem Dual: aliphatic dimethacrylate, aromatic dimethacrylate, carboxylic methacrylate bisphenol a. (bowen resin) toxic when uncured

Point 4: uncured methacrylate ester monomers

Point 4 flowable optimized particle composite system: uncured methacrylàte ester monomers

PolyCarb Waterset: zinc oxide

Post Cement Hi-X base/catalyst: bisphenol a diglycidylmethacrylate, ethoxylated bisphenol a dimethacrylate (base only) triethyleneglycol dimethacrylate

Porcelain fused- to- metal: allergy to metal alloys

Post Cement Hi-X Base/Catalyst: bisphenol A diglycidylmethacrylate, triethyleneglycol dimethacrylate

Pre-Bond Resin:
bisphenol a diglycidylmethacrylate,
triethyleneglycol dimethacrylate

Premium Denture Acrylic Liquid: methyl methacrylate, trimethylolpropane, trimethacrylate

Premium Powder: methacrylate polymer

Premium Super-20 Denture Acrylic Liquid: methyl methacrylate

Premium Super-20-Powder: methacrylate polymer

Premisa low shrinkage composite system: uncured methacrylate ester monomers

Premise: methacrylates

Premise low shrinkage composite system: uncured methacrylate ester monomers

Prime & Bond: toluenesulfinate

Prime & Bond NT: urethane dimethacrylate resin, polymerizable dimethacrylate resins, polymerizable trimethacrylate resins

Primer liquid A, clearfil liner bond: 2- hydroxyethyl methacrylate, hydrophilic dimethacrylate,

nyarophiuc aimethacryiate, 10- methacryloyloxydecyl, dihydrogen phosphate, n,n- diethanol-p-toluidine

Primer liquid B, clearfil liner bond: 2- hydroxyethyl methacrylate, hydrophilic dimethacrylate

Primer liquid, clearfil protect bond: 2- hydroxyethyl methacrylate, hydrophilic dimethacrylate

Prisma AP.H:
urethane modified bis-gma
dimethacrylate, polymerizable
dimethacrylate resin

Prisma VLC Dycal: calcium hydroxide, barium sulfate, urethane dimethacrylate resin, polymerizable dimethacrylate resin

PrepEze desensitizer: hydroxyethyl methacrylate

ProBond Adhesive:

(all purpose bonding agent)
urethane dimethacrylates resin,
polymerizable dimethacrylate resin

Prodigy:uncured methacrylate ester monomers

Prodigy condensable: uncured methacrylate ester monomers

Provisional Monomer: alky methacrylate, dimethyl0p-toluidine

Pulpdent: zinc oxide

Pulpdent Pulp Capping Paste (PSYK,PSY): calcium hydroxide

Pulpdent Cavity Liner (PCL): calcium hydroxide

Pulpdent TempCanal (PTCK,PTC): calcium hydroxide

Pulpdent Multi-Cal (MULTI,MULTI-3): calcium hydroxide

Calcium Hydroxide Powder (CH4,CH16): calcium hydroxide

Pulpdent Paste (PSYK,PSY,PSYN): calcium hydroxide

Pulpdent Root Canal Sealer Liquid (RSL,RSL-2): 2-methoxy-4-(2 propenyl) phenol

Pulp Canal Sealer Powder: zinc oxide

Pyramid Enamel:
ethoxylated bisphenol
a dimethacrylate,
triethyleneglycol dimethacrylate

Pyramid Dentin:
bisphenol diglycidylmethacrylate,
ethoxylated bisphenol
a dimethacrylate,
triethlyeneglycol dimethacrylate

Quixx:
ethoxylatedbisphenol
a dimethacrylate, polymerizeable
carboxylic acid dimethacrylate resin,
triethyleneglycoldimethacrylate,
polymerizable trimethacrylate resin

Regisil: titanium dioxide

Relate Monomer:
isobutyl methacrylate monomers,
ethylene glycol dimethacrylate
monomers, n,n-dimethyl-p-toluidine

Reposil Impression Material: titanium dioxide

ResiLute Multi-Purpose Resin: methacrylate resins

Resin Liquid: methyl methacrylate

Resincap Powder:
Plasticized methacrylate polymer

Resin, teethmate F-1:
bisphenola a polyethoxy
dimethacrylate,
triethyleneglycol dimethacrylate,
10methacryloyloxydecyl dihydrogen
phosphate, 2-hydroxyethyl methacrylate

Resinomer Base:
bisphenol a diglycidylmethacrylate,
hydroxyethyl methacrylate

Resinomer Catalyst: triethyleneglycol dimethacrylate, diphenylsulfone dimethacrylate

Revolution-formula2: uncured methacrylate ester monomers

Rubber base adhesive: toluene

Scotchbond Multi-Purpose: 2-hydroxyethyl-methacrylates

Sealapex:
ethyltoluene sulfonamide, zinc
oxide, calcium oxide, titanium
dioxide, barium sulphate

Sealite natural resin: uncured methacrylate ester monomers

Sealite opaque resin: uncured methacrylate

Seal-rite UDMA pit and fissure: urethane dimethacrylate and methacrylate resin

Seal-rite low viscosity pit and fissure sealant: methacrylate resin

Self Curing Denture Liquid: methyl methacrylate, n,n-dimethyl-p-toluidine

Self Curing Denture Powder: Plasticized methacrylate polymer

Silibond: meth methacrylate, bisphenol a-bis (hydroxypropylmethacrylate), triethylenglycoldimethacrylate

Silicoup B: trimethoxysilylpropyl methacrylate

Smartemp (all Shades): uncured methacrylate ester monomers

Snap bond dentin adhesive: 2-hydroxyethyl methacrylate

Snap Monomer:
Isobutyl methacrylate monomer,
ethylene glycol dimethacrylate
monomers, n,n-dimethyl-p-toluidine

Snap resin (powder) without Cadmium: titanium dioxide

Sparkle Ortho-Jet Powder: methacrylate copolymer

Splintline Liquid: dimethyl-p-toluidine

Splintline Powder: methacrylate polymer

Structure 2 SC: dimethacrylates

Sultan: eugenol

Sultan Sensi-Temp: multifunctional methacrylates

Surefil (High density posterior composite):

urethane modified bis-gma dimethacrylate, polymerizable dimethacrylate resin

Synergy Compact: methacrylates

Synergy Duo Shade: methacrylates

Synergy Flow: methacrylates

Synergy Super White: methacrylates

Synergy Transparent: methacrylates

TEGMA Composite: triethylene glycol dimethacrylate resin

TempCanal (PTCK,PTC): calcium hydroxide

Temporary Bridge Resin Liquid: methyl methacrylate, polymerizable dimethacrylate

Temp Bond Base: zinc oxide

Temp-Bond Accelerator: eugenol

Temp Glaze: methyl methacrylate

Tempit:

urethane dimethacrylate

TempoCemNE: zinc oxide

TempoCem.TempoCem Soft: zinc oxide, eugenol

TimeLine VLC Baseliner with dentin primer: urethane dimethacrylate

TotalBond Liquid:
2-hydroxyethyl methacrylate,
4-methacryoxyethyltrimellitic
acid anhydride, diacrylate of
polycondensate of bisphnol
a glycidyl ether, dimethacrylate
of polycondensate of bisphol
a and glycol, dimethacrylate
of polycondensate of glycol

TotalBond Powders (light,medium and dark): copolymer of methacrylates

TPH 3 Micro:

titanium dioxide, urethane modified bis-gma dimethacrylate, polymerizable dimethacrylate resin

TPH Spectrum:
urethane modified bis-gma
dimethacrylate, polymerizable
dimethacrylate resin

TR2 Temporary Cement: uncured acrylate, methacrylate ester monomers

Triethylene Glycol Dimethacrylate: toxic when uncured

Triphasix Aliginate Tray Adhesive: Toulene

Tubli-Seal: zinc oxide eugenol

Tubulitee Cavity Liner: calcium hydroxide

Turbo Temp: multifunctional methacrylates

Twinlook Cement Base: methacrylates

Twinlook Cement Cat: methacrylates

Tylok-Plus: zinc oxide, polyacrylic acid

Tyrian SPE Part B: bis 2-methacryloyloxy

UDMA Compisite: urethane dimethacrylate resin

Ultrafil Gutta Percha cannules: usp zinc oxide, barium sulfate

Unicem: (relyx unicem): methacrylates; dimethacrylates

Unicem Rely X: methacrylates, dimethacrylates

Universal liquid, clearfil new bond: n,n- diethanol p-toluidine

Universal liquid, clearfil photo bond: n,n-diethanol p-toluidine

Universal paste, ... clearfil core new bond: bisphenol a diglycidylmethacrylate, triethyleneglycol dimethacrylate, n,n-diethanol-p-toluidine

U/P Root Canal Powder: zinc oxide

VersaFlo:

glycol methacrylate, multifunctional methacrylates, barium glass

Vitapex: calcium hydroxide

Vitre-Bond: dimethacrylates

3RM Liquid: zinc oxide eugenol

3M single bond (Ad Per): dimethacrylates, methacrylates

Wachs Root Canal Powder: zinc oxide

Xeno III: hydroxyethyl methacrylate

urethane dimethacrylate resin,
dipentaerythritol pentaacrylate
phosphate, polymerizeable
dimethacrylate resin

Zical: zinc oxide

Zinc Oxide Powder: zinc oxide, eugenol

Zinocol Polymer Reinforced Zoe Cement: zinc oxide, eugenol

Zircate Prophy Paste: tin oxide

Zoe B & T Liquid: eugenol

Zoe B & T Powder: zinc oxide

2 bond 2 base:

dodecandioldimethacrylate **

A contribution of

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