

Hyflo powder and liquid

Hyflo[®] Denture Resin, Hygenic[®] Cold Cure Resin, Perm[®] Reline / Repair Resin,
Hygenic[®] Orthodontic Resin, Hygon[®] Tray Material

Coltene Inc.

Internal Document Number: 48290C

Revision Date: May 2018

Section 1 - IDENTIFICATION

Product Names: Hygenic[®] Acrylic Liquid Cold Cure Monomers Hyflo[®] Denture Resin, Hygenic[®] Cold Cure Resin, Perm[®] Reline / Repair Resin, Hygenic[®] Orthodontic Resin, Hygon[®] Tray Material

Product Codes: See Section 16 for applicable product codes

Recommended Use: Acrylic Cold Cure Liquid is intended to be mixed with a powder component and used in the construction of dental and orthodontic prosthetics.

Restrictions on Use: Federal law restricts this device to sale by or on the order of a physician

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Copies of this SDS can be found at
www.coltene.com

Section 2 - HAZARD(S) IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Hazard Category, Subcategory: Flammable Liquids (Category 2)
Skin Irritation (Category 2)
Skin Sensitization (Category 1)
Specific Target Organ Toxicity-Single Exposure (Category 3) –
Respiratory System

GHS Label Elements:
Symbol(s)



Signal Word:

Danger

Hazard Statement(s):

Highly flammable liquid and vapor
Causes skin irritation
May cause an allergic skin reaction
May cause respiratory tract irritation

Precautionary Statement(s):

Prevention:

Keep away from heat/sparks/open flames/hot surfaces- No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion proof electrical ventilating/lighting. Use only non-sparking tools. Take precautionary measures against static discharge.

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Prevention (cont.)

Avoid breathing mist/vapors/spray. Wash skin thoroughly after handling. Do not get in eyes or on skin. Use only outdoors or in a well ventilated place. Contaminated clothing should not be allowed out of the workplace. Wear protective gloves/
Protective clothing/eye protection/face protection.

Response:

If on Skin (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire use dry sand, dry chemical or alcohol resistant foam to extinguish.

Storage:

Store in a well ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Disposal:

Dispose of in accordance with local, state and federal regulations.

Statement(s) of Unknown Acute Toxicity:

Zero % of the mixture consists of ingredient(s) of unknown acute toxicity.

Other Hazards which do not result in classification: None

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Percent (w/w%)
Methyl Methacrylate	80-62-6	85-95
Ethylene Dimethacrylate	97-90-5	2 - 5

Section 4 - FIRST AID MEASURES

Description of Necessary Measures

General Advice: If exposed or feeling unwell, consult a physician. Move out of affected area.

Inhalation: Move person into fresh air. If not breathing administer CPR and contact emergency services (911)

Skin: Wash with soap and water. Consult a physician if a reaction occurs

Eyes: Flush eyes with water for at least 15 minutes. Consult a physician

Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. Contact a physician.

Most Important Symptoms/Effects: Aside from the information under first aid measures above, see Section 11 – Toxicological Information, for any additional symptoms and effects

Section 5 - FIRE-FIGHTING MEASURES

Extinguishing Media: Use water spray, alcohol resistant foam, dry chemical or Carbon Dioxide (CO2)

Unsuitable Extinguishing Media: No data available

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Specific Hazards Arising from the Chemical: Carbon oxides, flash back possible over a considerable distance, container explosion may occur under fire conditions.

Special Protective Equipment and Precautions for Firefighters: Explosion Hazard. Fight advanced fires from a distance or protected location. Cool containers and tanks with water spray. Wear protective equipment and self-contained breathing apparatus (SCBA) per fire department's SOP.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Be aware of vapors accumulating to form explosive concentrations. Vapors are heavier than air so they can accumulate in low areas. For PPE see Section 8

Methods and Materials for Containment and Cleaning Up: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Contain spillage and collect with an electrically protect wet vacuum cleaner or by wet brushing and place in container for disposal according to local, state and federal regulations (See Section 13)

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling: May cause sensitization of susceptible people by skin contact. For personal protection see Section 8. Ground all metal containers during storage and handling.

Conditions for Safe Storage, Including Any Incompatibilities: Minor deviations (7°C/13°F) above the recommended temperature (see below) are acceptable for up to one week, for material in transit. Store in a cool place. Keep away from direct sunlight. Material is highly flammable, limit indoor storage to approved areas equipped with automatic sprinklers. The product contains an inhibitor to stabilize it during shipment and storage. Keep containers tightly closed. Storage temperature ≤ 38°C (100°F). Maximum storage period: 12 months

Use monomer within the recommended storage period from date of manufacture to avoid loss of stability or risk of polymerization.

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits:

Component	CAS #	OSHA: PEL	ACGIH	NIOSH: REL
Methyl Methacrylate	80-62-6	100 ppm – 410 mg/m ³	TWA 50 ppm STEL 100 ppm	100 ppm – 410 mg/m ³
Ethylene Dimethacrylate	97-90-5	200 ppm	Not Listed	200 ppm

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

Appropriate Engineering Controls:

Mechanical vapor capture enclosure and local ventilation should be used

Individual Protection Measures, such as Personal Protective Equipment:

Eye/face protection: Wear safety goggles or face shield

Skin Protection: Wear protective gloves

Respiratory Protection: If exposure is above indicated exposure levels, wear a NIOSH approved respirator with the proper organic vapor cartridges

Glove Recommendation(s): Silver Shield Laminate 2.5 mils / .06 mm

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Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, lightly tinted liquid	Physical State	Liquid
Odor	Sharp, pungent odor	Color	Lightly tinted
Odor Threshold	Not available	pH	Neutral
Melting Point	Not available	Molecular Weight	Not available
Boiling Point	101 °C (212° F)	Freezing point	Not available
Evaporation Rate	Not available	Flammability class	Category 2 Liquid
Autoignition Temperature	Not available	Flash Point	11°C (52°F)
Lower Explosive Limit	1.8%	Decomposition temperature	Not available
Upper Explosive Limit	8.2%	Vapor Pressure	29 mmHg @ 20°C
Vapor Density (air=1)	Not available	Relative Density(water=1)	.96
Water Solubility	Not available	Partition coefficient: n-octanol/water	Not available
Viscosity	10 cps	Kinematic viscosity	Not available
Solubility (Other)	Not available	Density	8.0 lb/gal

Section 10 - STABILITY AND REACTIVITY

Reactivity:

Reactive with oxidizing agents and acids

Chemical Stability:

Stable with presence of inhibitor

Conditions to Avoid:

Excessive heat, storage without inhibitor, and inadvertent addition of a catalyst

Incompatible Materials:

Do not allow to come in contact with reducing and strong oxidizing agents. Material has strong solvent qualities and can soften paint or rubber.

Hazardous decomposition products:

Oxides of carbon

Section 11 - TOXICOLOGICAL INFORMATION

Information on Routes of Exposure:

(Eye/Skin), Inhalation, Ingestion (unlikely)

Inhalation:

Overexposure to vapors may cause respiratory tract irritation and Central Nervous System depression

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Skin Contact:

Allergic reaction can be caused by repeated direct contact

Eye Contact:

Irritation can occur from vapors and from direct contact

Ingestion:

No information available

Acute and Chronic Toxicity

Component Acute Toxicity Estimate

Component	Oral (rat)	Dermal (rabbit)	Inhalation (rat)
Methyl Methacrylate (80-62-6)	LD50 - 7900 mg/kg	LD50 - 5,000 mg/kg	LC50 - 7800 mg/m ³ 4 hours
Ethylene Glycol Dimethacrylate (97-90-5)	LD-50 - 3300 mg/kg	None noted	None noted

Component Carcinogenicity:

Methyl Methacrylate is listed by IARC as Group 3 "Not classifiable as human carcinogens"

None of this product's components are listed by ACGIH, NTP or OSHA.

Reproductive Toxicity:

Methyl Methacrylate did not cause birth defects, malformations or fetal toxicity in pregnant rats inhaling concentrations up to 2,028 ppm. There is no relative information available on Ethylene Dimethacrylate.

Germ Cell Mutagenicity:

Ethylene Glycol Dimethacrylate has shown in tests to cause lymphocyte mutation in somatic cells in mice.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Component Analysis - Aquatic Toxicity

Component	Toxicity to Fish	Toxicity to Aquatic Invertebrates	Toxicity to Algae
Methyl Methacrylate CAS # 80-62-6	LC50 - Pimephales Promelas (Fathead minnow) 125.5-275.0 mg/l - 96 hours	EC50 - Daphnia Magna (Water flea) 720 mg/l	EC50 - Pseudokirchneriella Subcapita (Green algae) 170 mg/l - 96 hours
Ethylene Dimethacrylate CAS # 97-90-5	LC50 - Other fish - 15.95 mg/l 96 hours (OECD Test Guideline 203)	No data available	No data available

Persistence and Degradability

Bioaccumulative Potential:

The product has low potential for bioaccumulation

Mobility in soil:

Potential for mobility in soil is high (Koc between 50 and 150). Partition coefficient (Koc): 87 - Estimated

Other adverse effects:

No data available

This product does not contain persistent, bioaccumulative and toxic chemicals (PBT's) nor does this product any very persistent and very bioaccumulative chemicals (vPvB's)

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Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods:

Keep spills and cleaning runoff out of municipal sewers and open bodies of water. Do not allow material to contaminate ground water system.

Material may be disposed of as household waste after polymerization, if the necessary technical regulations are observed and after consulting with the responsible authority.

RCRA: Characteristic Waste D001 – When the material is discarded as supplied, it is classified as a RCRA hazardous waste with the characteristic of ignitability. After the addition of excess inhibitor, incinerate liquid and contaminated diking material in accordance with local, state and federal regulations.

Contaminated Packaging: Containers may be hazardous when empty. Since emptied containers retain product residue follow all SDS and label warnings even after the container is emptied. Do not burn or use a cutting torch on the “empty” drum. Improper disposal or re-use of this container may be dangerous and illegal. Refer to applicable local, state and federal regulations.

Additional Disposal Considerations: Dispose of if shelf life has been exceeded.

Section 14 - TRANSPORT INFORMATION

Agency	Proper Shipping Name	UN#	Hazard Class	Label
DOT/TGD	Methyl methacrylate monomer, stabilized	UN1247	Class 3 PGII RQ 1000 lbs.	
Sea Transport IMDG/GGV SEA	Methyl methacrylate monomer, stabilized	UN1247	Class 3 PGII EmS F-E S-D	
Air Transport ICAO-Ti & IATA_DGR	Methyl methacrylate monomer, stabilized	UN1247	Class 3 PGII	

For shipments where the inner packaging does not exceed 1.0 Liter (0.3 gallons) net capacity each use the following table

Agency	Proper Shipping Name	UN#	Hazard Class	Label
DOT/TGD	Methyl methacrylate monomer, stabilized	UN1247	ID8000	or
Sea Transport IMDG/GGV SEA	Methyl methacrylate monomer, stabilized	UN1247	Class 3 PGII EmS F-E S-D	and
Air Transport ICAO-Ti & IATA_DGR	Methyl methacrylate monomer, stabilized	UN1247	Class 3 PGII	and

Emergency Response Guide Number: 129

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Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories

[Classification according to SARA Section 311/312.]

Acute Health Hazard, Chronic Health Hazard, Fire Hazard, Reactivity Hazard

U.S. State Regulations

None of this product's components are listed on the state lists from MA, MN, NJ or PA.

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

This Product Contains Chemicals Known to the State of California to Cause Cancer

Component Analysis - Inventory

Component	Percent (w/w%)
Dimethyl-p-toluidine CAS # 99-97-8	< 1% w/w

Canada Regulations:

CEPA - Priority Substance list

None of this product's components are on the list

Ozone Depleting Substances:

None of this product's components are on the list

Council of Ministers of the Environment - Soil Quality Guidelines

None of this product's components are on the list; however, Ethylene Glycol which makes up part of one of the components of this product is on this list. It has a maximum allowable concentration of 960 mg/kg dry weight for Agricultural, Residential/Parkland, Commercial and Industrial.

Council of Ministers of the Environment - Water Quality Guidelines

None of this product's components have sufficient data indicating that they should be included on the list

Section 16 - OTHER INFORMATION

HMIS and NFPA Ratings are not required, but are often found in Section 16.

HMIS Rating

Health: [2] Fire: [3] Reactivity: [2] Other:

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

NFPA Ratings

Health: [2] Fire: [3] Reactivity: [2] Other:

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

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Product Codes: H00248, H00257, H00260, H00266, H00276, H00277, H02033, H00325, H00335, H00340, H00345, H00355, H02081, H00327, H00337, H00342, H00347, H00357, H02076, H02082, H00328, H00338, H00343, H00348, H00358, H02077, H02083, H00368, H00377, H00382, H00383, H00384, H02253, H02102, H03343, H00280, H00288, H00292, H00296, H00304, H00289, H00293, H00344, H00354, H00321, H00322, H00323, H02100, H02252, H02103, H03342, H02099, H00388, H00389, H00390, H00391, H00392, H00393, H00394, H00395, H00396, H00415, H00416, H00417, H01016, H01020, H01021, H01045, H01046, H02032, 50007652, 50007653, 50007654, 50007656, 50007658

REVISION HISTORY

REVISION	DATE	ECN #	CHG BY	CHK BY	APPR. BY	DESCRIPTION OF CHANGE
A	9/30/14	14410	SBL	TG	SBL	Updated MSDS to GHS/SDS format. 48290 Revision A supersedes 48135 Revision A
B	6/03/15	14972	SBL	SBL	AT	Added Hygon Tray Material in Section 1 and title. Also added corresponding Product Codes. Added Limited Quantity ground symbol to Section 14
C	5/24/18		PMc		PMc	Made minor changes and updated to WHMIS 2015 Regulations

Key / Legend:

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL), KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; Ne - Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL - Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL - Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

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Section 1 - IDENTIFICATION

Product Names: Hygenic[®] Hyflo[®] Resin (Powder Component)

Product Codes: H01016, H01020, H01021, H01038, H01039, 50007689

Recommended Use: Hygon[®] Hyflo[®] Resin (Powder Component) Tray Material is intended to be used with hydrocolloid or soft stone investments. Ideal for fast temporary or duplicate dentures, yet strong enough for everyday dentures.

Restrictions on Use: Intended for use by a licensed physician

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USA & Canada: 1 800 535 5053

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Section 2 - HAZARD(S) IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Hazard Category, Subcategory: Combustible Dust

GHS Label Elements:

Symbol(s) No Symbol Required

Signal Word: Warning

Hazard Statement(s): May form combustible dust concentrations in air

Precautionary Statement(s):

Prevention: Wear protective gloves/Protective clothing/eye protection/face protection.

Response: If on Skin (or hair): Rinse skin with water/shower
Take off contaminated clothing and wash before reuse.

Storage: None specified

Disposal: Dispose of in accordance with local, state and federal regulations.

Statement(s) of Unknown Acute Toxicity:

Zero % of the mixture consists of ingredient(s) of unknown acute toxicity.

Other Hazards which do not result in classification:

Product contains 0.033% Benzoyl Peroxide which is classified as a Skin Sensitizer. The percentage in this product is below the threshold level for classification.

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Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS number	Percent (w/w%)
Particulates NoC	9011-14-7	>99%
Benzoyl Peroxide	94-36-0	0.033%

Section 4 - FIRST AID MEASURES

Description of Necessary Measures

General Advice: If exposed or feeling unwell, consult a physician. Move out of affected area.

Inhalation: Move person into fresh air. Contact a physician if irritation persists

Skin: Wash with soap and water. Consult a physician if a reaction occurs

Eyes: Flush eyes with water for at least 15 minutes. Consult a physician if irritation persists.

Ingestion: Do not induce vomiting. Rinse mouth with water. Contact a physician if large quantities were consumed.

Most Important Symptoms/Effects: None noted

Section 5 - FIRE-FIGHTING MEASURES

Extinguishing Media: Use water spray, alcohol resistant foam, dry chemical or Carbon Dioxide (CO₂)

Unsuitable Extinguishing Media: No data available

Specific Hazards Arising from the Chemical: Combustible dust, avoid extinguishing methods that generate a dust cloud. Polymer dust is combustible at limits similar to coal dust.

Special Protective Equipment and Precautions for Firefighters: Explosion Hazard. Fight advanced fires from a distance or protected location. Cool containers and tanks with water spray. Wear protective equipment and self-contained breathing apparatus (SCBA) per fire department's SOP.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: Use personal protective equipment. Avoid breathing dust. Ensure adequate ventilation. For PPE see Section 8

Methods and Materials for Containment and Cleaning Up: Sweep up dust to avoid a slipping hazard place and place in container for disposal according to local, state and federal regulations.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling: Always wear gloves and eye protection.

Conditions for Safe Storage, Including Any Incompatibilities: Keep out of reach of children. Keep container tightly closed and upright when not in use.

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Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits:

Component	Concentration	OSHA: PEL	ACGIH	NIOSH: REL
Particulates NoC	>99%	15 mg/m ³	10 mg/m ³	Not listed
Benzoyl Peroxide	0.033%	5 mg/m ³	Not Listed	5 mg/m ³

ACGIH - Threshold Limit Values - Biological Exposure Indices (BEI)

There are no biological limit values for any of this product's components.

Appropriate Engineering Controls:

Local ventilation should be adequate. Mechanical ventilation would add additional protection.

Individual Protection Measures, such as Personal Protective Equipment:

Eye/face protection: Wear safety goggles

Skin Protection: Wear protective gloves. Wash hands thoroughly after use.

Respiratory Protection: If dust is present, wear a NIOSH approved respirator

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White powder	Physical State	Powder
Odor	Faint Acrylic	Color	White
Odor Threshold	Not available	pH	No data
Melting Point	Not available	Molecular Weight	Not available
Boiling Point	Not available	Freezing point	Not available
Evaporation Rate	Not available	Flammability class	Non-flammable
Autoignition Temperature	Not available	Flash Point	304°C (>212°F)
Lower Explosive Limit	No data	Decomposition temperature	Not available
Upper Explosive Limit	No data	Vapor Pressure	Not available
Vapor Density (air=1)	Not available	Relative Density(water=1)	Not available
Water Solubility	Insoluble	Partition coefficient: n-octanol/water	Not available
Viscosity	Not available	Kinematic viscosity	Not available

Section 10 - STABILITY AND REACTIVITY

Reactivity:

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If burned produces Methacrylate Monomer and oxides of carbon

Chemical Stability:

Stable under normal dry conditions

Conditions to Avoid:

Heating above 240°C (>464°F)

Incompatible Materials:

Strong oxidizers

Hazardous decomposition products:

Methacrylate Monomer and oxides of carbon

Section 11 - TOXICOLOGICAL INFORMATION

Information on Routes of Exposure:

(Eye/Skin), Inhalation, Ingestion

Inhalation: Overexposure to dust may cause respiratory tract irritation.

Eye Contact: Irritation can occur by repeated direct contact

Skin Contact: Irritation can occur by repeated direct skin contact.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Component Analysis - Aquatic Toxicity

Material is not considered harmful to the environment

Persistence and Degradability

No data available

Bioaccumulative Potential:

Material will not bioconcentrate in fish and aquatic organisms nor will it absorb to sediment and suspended organic matter.

Mobility in soil:

None known

Other adverse effects:

No data available

This product does not contain persistent, bioaccumulative and toxic chemicals (PBT's) nor does this product any very persistent and very bioaccumulative chemicals (vPvB's)

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods:

Dispose of in accordance with local, state and federal regulations

Component Waste Numbers:

The U.S. EPA has not published waste numbers for this products components

Additional Disposal Considerations: Dispose of if shelf life has been exceeded.

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Revision Date: May 2018

Section 14 - TRANSPORT INFORMATION**Emergency Response Guide Number:** Not applicable**DOT & TDG Information:**

Not regulated

Environmental Hazards:

None

International Bulk Chemical Code:

The product does not have any chemicals required by the IBC Code to be defined as dangerous chemicals in bulk.

IATA & IMDG Information:

Not Regulated

Section 15 - REGULATORY INFORMATION**U.S. Federal Regulations***None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.***SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories****[Classification according to SARA Section 311/312.]**

Not Classified

U.S. State Regulations*None of this product's components are listed on the state lists from MA, MN, NJ or PA.***The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):*****Not listed under California Proposition 65*****Canada Regulations:****CEPA – Priority Substance list***None of this product's components are on the list***Ozone Depleting Substances:***None of this product's components are on the list***Council of Ministers of the Environment – Soil Quality Guidelines***None of this product's components are on the list; however, Ethylene Glycol which makes up part of one of the components of this product is on this list. It has a maximum allowable concentration of 960 mg/kg dry weight for Agricultural, Residential/Parkland, Commercial and Industrial.***Council of Ministers of the Environment – Water Quality Guidelines***None of this product's components have sufficient data indicating that they should be included on the list***Section 16 - OTHER INFORMATION***HMIS and NFPA Ratings are not required, but are often found in Section 16.***HMIS Rating**

Health: [1] Fire: [1] Reactivity: [0] Other:

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

Safety Data Sheet



Hyflo powder and liquid

Hyflo[®] Denture Resin, Hygenic[®] Cold Cure Resin, Perm[®] Reline / Repair Resin,

Hygenic[®] Orthodontic Resin, Hygon[®] Tray Material

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NFPA Ratings

Health: [1] Fire: [1] Reactivity: [0] Other:

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REVISION HISTORY

REVISION	DATE	ECN #	CHG BY	CHK BY	APPR. BY	DESCRIPTION OF CHANGE
A	9/26/14	14407	SBL	SBL	SBL	Updated MSDS to GHS/SDS format. 48293 Revision A supersedes 48045 Revision D
B	6/08/18		PMc		PMc	Made minor changes, and updated to WHMIS 2015 Regulations

Key / Legend:

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CA/MA/MN/NJ/PA - California/Massachusetts/Minnesota/New Jersey/Pennsylvania*; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CFR - Code of Federal Regulations (US); CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EC - European Commission; EEC - European Economic Community; EIN - European Inventory of (Existing Commercial Chemical Substances); EINECS - European Inventory of Existing Commercial Chemical Substances; ENCS - Japan Existing and New Chemical Substance Inventory; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; F - Background (for Venezuela Biological Exposure Indices); IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; ISHL - Japan Industrial Safety and Health Law; IUCLID - International Uniform Chemical Information Database; JP - Japan; Kow - Octanol/water partition coefficient; KR KECI Annex 1 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL); KR KECI Annex 2 - Korea Existing Chemicals Inventory (KECI) / Korea Existing Chemicals List (KECL), KR - Korea; LD50/LC50 - Lethal Dose/ Lethal Concentration; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; MX - Mexico; Ne - Non-specific; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; Nq - Non-quantitative; NSL - Non-Domestic Substance List (Canada); NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PEL - Permissible Exposure Limit; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; Sc - Semi-quantitative; STEL - Short-term Exposure Limit; TCCA - Korea Toxic Chemicals Control Act; TDG - Transportation of Dangerous Goods; TLV - Threshold Limit Value; TSCA - Toxic Substances Control Act; TW - Taiwan; TWA - Time Weighted Average; UEL - Upper Explosive Limit; UN/NA - United Nations /North American; US - United States; VLE - Exposure Limit Value (Mexico); VN (Draft) - Vietnam (Draft); WHMIS - Workplace Hazardous Materials Information System (Canada).

Other Information

DISCLAIMER: Information included in this Safety Data Sheet was obtained from sources which we believe are accurate and reliable as of the date hereof. HOWEVER, NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR COURSE OF PERFORMANCE OR USAGE OF TRADE. User is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of use or application. Given the variety of factors that can affect the use and application of the product, some of which are uniquely within the user's

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knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for user's method of use or application. Coltene/Whaledent Inc, assumes no risk or responsibility for adverse events which may occur in the use and/or misuse of this product and expressly disclaims liability for loss, damage and/or expense arising out of or in any way connected with the handling, storage, use and/or disposal of this product.