

**Safety Data Sheet Cover-Sheet** – This page provides additional New Zealand specific information for this product, and must be read in conjunction with the Safety Data Sheet (SDS) attached.

Product Name: LC Block-Out Resin

Manufacturer: Ultradent

SDS Expiry: 22 November 2024

Supplier Details: Henry Schein New Zealand  
23 William Pickering Drive, Albany  
PO Box 101 140, North Shore, Auckland 0745  
Ph. 0800 808 855  
[www.henryschein.co.nz](http://www.henryschein.co.nz)

Emergency Contacts: Poisons/Hazardous Chemical Info Centre – 0800POISON/0800764766 (24 Hours)  
Phone 111 for Fire, Ambulance or Police

HSNO Class/Category: 6

HSNO Group Standard: Dental Products Subsidiary Hazard Group Standard 2017 HSR002558

Statements/Pictograms: As per attached Safety Data Sheet (SDS)

Date Prepared: This coversheet was prepared on 15 April 2020

This SDS coversheet has been produced by Henry Schein NZ and has been prepared in accordance with NZ EPA advice on making overseas SDS compliant to HSNO Act. The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith, no warranty is implied with respect to the quality or the specifications of the product. Users must satisfy that the product is entirely suitable for their purpose. The SDS and this coversheet may be revised from time to time, please ensure you have a current copy.

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 19.12.2019

Revision: 22.11.2019

**1 Identification of the substance/mixture and of the company/undertaking**

- **Product identifier**
- **Trade name:** Ultradent™ LC Block-Out Resin
- **Article number:** 10318
- **Index number:** SDS 30-001.10
- **Relevant identified uses of the substance or mixture and uses advised against** Dental Laboratory Resin
- **Application of the substance / the mixture** Dental Laboratory Resin
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Ultradent Products Inc.  
505 W. Ultradent Drive (10200 S)  
South Jordan, UT 84095-3942  
USA  
onlineordersupport@ultradent.com
- EC Responsible Person  
Ultradent Products GmbH  
Am Westhover Berg 30  
51149 Cologne Germany  
Email: infoDe@ultradent.com  
Emergency Phone: +49(0)2203-35-92-0
- **Further information obtainable from:** Customer Service
- **Emergency telephone number:**  
CHEMTREC (NORTH AMERICA) : (800) 424-9300  
(INTERNATIONAL) : +(703) 527-3887

**2 Hazards identification**

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS07

Acute Tox. 4 H332 Harmful if inhaled.  
Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**  
Diurethane Dimethacrylate  
Triethylene Glycol Dimethacrylate  
Amine Methacrylate

(Contd. on page 2)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 19.12.2019

Revision: 22.11.2019

**Trade name: Ultradent™ LC Block-Out Resin**

(Contd. of page 1)

**· Hazard statements***H332 Harmful if inhaled.**H317 May cause an allergic skin reaction.***· Precautionary statements***P101 If medical advice is needed, have product container or label at hand.**P102 Keep out of reach of children.**P103 Read label before use.**P261 Avoid breathing dust/fume/gas/mist/vapours/spray.**P271 Use only outdoors or in a well-ventilated area.**P272 Contaminated work clothing should not be allowed out of the workplace.**P280 Wear protective gloves.**P302+P352 IF ON SKIN: Wash with plenty of water.**P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.**P312 Call a POISON CENTER/doctor if you feel unwell.**P321 Specific treatment (see on this label).**P362+P364 Take off contaminated clothing and wash it before reuse.**P333+P313 If skin irritation or rash occurs: Get medical advice/attention.**P501 Dispose of contents/container in accordance with local/regional/national/international regulations.***· Other hazards****· Results of PBT and vPvB assessment****· PBT:** Not applicable.**· vPvB:** Not applicable.

### 3 Composition/information on ingredients

**· Chemical characterisation: Mixtures****· Description:** Mixture of substances listed below with nonhazardous additions.**· Dangerous components:**

CAS: 72869-86-4	Diurethane Dimethacrylate	<90%
EINECS: 276-957-5	⚠ Skin Sens. 1, H317	
CAS: 109-16-0	Triethylene Glycol Dimethacrylate	<25%
EINECS: 203-652-6	⚠ Skin Sens. 1, H317	
	Amine Methacrylate	<1%
	⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	

**· Additional information:** For the wording of the listed hazard phrases refer to section 16.

### 4 First aid measures

**· Description of first aid measures****· General information:***Immediately remove any clothing soiled by the product.**Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.***· After inhalation:***This product is a viscous gel, therefore chance of inhalation is extremely low.**Seek medical treatment in case of complaints.***· After skin contact:** Immediately wash with water and soap and rinse thoroughly.**· After eye contact:** Rinse opened eye for several minutes under running water.**· After swallowing:***Rinse out mouth and then drink plenty of water.*

(Contd. on page 3)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 19.12.2019

Revision: 22.11.2019

Trade name: **Ultradent™ LC Block-Out Resin**

(Contd. of page 2)

*Seek medical treatment.*· **Information for doctor:**· **Most important symptoms and effects, both acute and delayed** *No further relevant information available.*· **Indication of any immediate medical attention and special treatment needed***No further relevant information available.*

### 5 Firefighting measures

· **Extinguishing media**· **Suitable extinguishing agents:***Water spray**Foam**Fire-extinguishing powder**Use fire extinguishing methods suitable to surrounding conditions.*· **Special hazards arising from the substance or mixture***Carbon monoxide (CO)**Nitrogen oxides (NOx)**During fire, gases hazardous to health may be formed.*· **Advice for firefighters:**· **Protective equipment:***Wear fully protective suit.**Mouth respiratory protective device.*

### 6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures** *Not required.*· **Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.*· **Methods and material for containment and cleaning up:***Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).**Dispose contaminated material as waste according to item 13.**Ensure adequate ventilation.*· **Reference to other sections***See Section 7 for information on safe handling.**See Section 8 for information on personal protection equipment.**See Section 13 for disposal information.*

### 7 Handling and storage

· **Handling:**· **Precautions for safe handling:***Keep receptacles tightly sealed.**Ensure good ventilation/exhaustion at the workplace.**Prevent formation of aerosols.*· **Information about fire - and explosion protection:** *No special measures required.*· **Conditions for safe storage, including any incompatibilities**· **Storage:**· **Requirements to be met by storerooms and receptacles:***Store in a cool location.**Store only in the original receptacle.*· **Information about storage in one common storage facility:***Store away from oxidising agents.*

(Contd. on page 4)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 19.12.2019

Revision: 22.11.2019

Trade name: **Ultradent™ LC Block-Out Resin**

(Contd. of page 3)

Store away from foodstuffs.

- **Further information about storage conditions:**

Protect from heat and direct sunlight.

See product labelling.

Keep container tightly sealed.

- **Specific end use(s)** Dental Laboratory Resin

## 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Additional information:** The lists valid during the making were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Do not eat or drink while working.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

- **Respiratory protection:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Goggles recommended during refilling

- **Body protection:** Protective work clothing

## 9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

**Form:** Gel

**Colour:** Blue

(Contd. on page 5)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 19.12.2019

Revision: 22.11.2019

Trade name: **Ultradent™ LC Block-Out Resin**

(Contd. of page 4)

· <b>Odour:</b>	Methacrylate
· <b>Odour threshold:</b>	Not determined.
· <b>pH-value:</b>	Not applicable (non-aqueous)
· <b>Change in condition</b>	
Melting point/freezing point:	<25 °C
Initial boiling point and boiling range:	>100 °C
· <b>Flash point:</b>	Not applicable.
· <b>Flammability (solid, gas):</b>	Not applicable.
· <b>Decomposition temperature:</b>	260 °C (TGA trace)
· <b>Auto-ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Explosion limits:</b>	
Lower:	Not determined.
Upper:	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density at 20 °C:</b>	1.1-1.2 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with water:</b>	Insoluble.
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b>	
Dynamic at 20 °C:	46,000 cps
Kinematic:	Not determined.
· <b>Solvent content:</b>	
VOC (EC)	0.00 %
Solids content:	<30.0 %
· <b>Other information</b>	No further relevant information available.

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:**
  - Light
  - UV light
- **Incompatible materials:** Strong oxidizing agents
- **Hazardous decomposition products:** No dangerous decomposition products known.

GB2

(Contd. on page 6)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 19.12.2019

Revision: 22.11.2019

Trade name: **Ultradent™ LC Block-Out Resin**

(Contd. of page 5)

### 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity**

Harmful if inhaled.

- **LD/LC50 values relevant for classification:**

**ATE (Acute Toxicity Estimates)**

Inhalative	LC50/4 h	3.71 mg/l (rat)
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**72869-86-4 Diurethane Dimethacrylate**

Oral	LD50	>5,000 mg/kg (rat)
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**109-16-0 Triethylene Glycol Dimethacrylate**

Oral	LD50	>5,000 mg/kg (rat)
	LC50 Fish	16.4 mg/l (Fish) (Toxicity to fish)
Dermal	LD50	>2,000 mg/kg (mouse)

**Amine Methacrylate**

Oral	LD50	1,550 mg/kg (rat)
	LC50 Fish	19 mg/l (Fish)
Dermal	LD50	2,000 mg/kg (rabbit)
Inhalative	LC50/4 h	96 mg/l (rat)

- **Primary irritant effect:**

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.

- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.

- **Respiratory or skin sensitisation**

May cause an allergic skin reaction.

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.

- **Carcinogenicity** Based on available data, the classification criteria are not met.

- **Reproductive toxicity** Based on available data, the classification criteria are not met.

- **STOT-single exposure** Based on available data, the classification criteria are not met.

- **STOT-repeated exposure** Based on available data, the classification criteria are not met.

- **Aspiration hazard** Based on available data, the classification criteria are not met.

### 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:**

**72869-86-4 Diurethane Dimethacrylate**

Biodegradability	28 days (Aerobic) (Biodegradability testing)
EC50	>0.6 mg/l (Algae) (Toxicity to algae)
	>1.2 mg/l (daphnia) (Toxicity to aquatic invertebrates)

**109-16-0 Triethylene Glycol Dimethacrylate**

Biodegradability	28 days (Aerobic) (Biodegradability testing)
Aqua toxicity	32 mg/l (daphnia) (No Observed Effect Concentration)
EC50	>100 mg/l (Algae) (Toxicity to algae)

**Amine Methacrylate**

EC50	42 mg/l (Algae)
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(Contd. on page 7)



# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 19.12.2019

Revision: 22.11.2019

Trade name: **Ultradent™ LC Block-Out Resin**

(Contd. of page 6)

- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
*Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water*  
*Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation** Do not allow product to reach sewage system.
- |                                   |             |
|-----------------------------------|-------------|
| · <b>European waste catalogue</b> |             |
| HP13                              | Sensitising |
- **Uncleaned packaging:**
  - **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |   |                 |
|---|-----------------|
| · <b>UN-Number</b>  |                 |
| · <b>ADR, IMDG, IATA</b>  | not regulated   |
| · <b>UN proper shipping name</b>  |                 |
| · <b>ADR, IMDG, IATA</b>  | not regulated   |
| · <b>Transport hazard class(es)</b>   |                 |
| · <b>ADR, ADN, IMDG, IATA</b>   |                 |
| · <b>Class</b>  | not regulated   |
| · <b>Packing group</b>  |                 |
| · <b>ADR, IMDG, IATA</b>  | not regulated   |
| · <b>Environmental hazards:</b>   | Not applicable. |
| · <b>Special precautions for user</b>                                       | Not applicable. |
| · <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b> | Not applicable. |
| · <b>UN "Model Regulation":</b>   | not regulated   |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

(Contd. on page 8)



# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 19.12.2019

Revision: 22.11.2019

**Trade name: Ultradent™ LC Block-Out Resin**

(Contd. of page 7)

**· Chemical safety assessment:**
*Device is biocompatible when used as directed by dental professionals per ISO 10993-1*

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

**· Relevant phrases**
*H302 Harmful if swallowed.*
*H312 Harmful in contact with skin.*
*H315 Causes skin irritation.*
*H317 May cause an allergic skin reaction.*
*H319 Causes serious eye irritation.*
**· Department issuing SDS: Regulatory Affairs**
**· Contact: Customer Service**
**· Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*VOC: Volatile Organic Compounds (USA, EU)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Acute Tox. 4: Acute toxicity - oral – Category 4*

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*

*Eye Irrit. 2: Serious eye damage/eye irritation – Category 2*

*Skin Sens. 1: Skin sensitisation – Category 1*

GB2