

# DENTSPLY International

## DENTSPLY PROFESSIONAL

### Safety Data Sheet

Safety Data Sheet (in compliance with Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 453/2010)

Date Issued: March 2002  
Document Number: 537835  
Date Revised: 22 August 2014  
Revision Number: 8

#### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1 Product Identifier:

Trade Name (as labeled): Delton® Light Cure Clear (DDS) Sealant  
Part/Item Number: 26951, 26955

##### 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Recommended Use: For preventive sealing of pits and fissures in the primary and secondary dentition in combination with the acid-etch technique.

Restrictions on Use: For Professional Use Only. Do not use on persons hypersensitive to methacrylates or other formula ingredients.

##### 1.3 Details of the Supplier of the Safety Data Sheet:

Manufacturer/Supplier Name: DENTSPLY Professional  
Manufacturer/Supplier Address: 1301 Smile Way  
York, PA 17404  
Manufacturer/Supplier Telephone Number: 800-989-8826 or 717-767-8502 (Product Information)  
Email address: [ProfessionalMSDS@dentsply.com](mailto:ProfessionalMSDS@dentsply.com)

##### 1.4 Emergency Telephone Number:

Transportation Emergency Contact Number: 800-424-9300 Chemtrec

#### 2. HAZARDS IDENTIFICATION

##### 2.1 Classification of the Substance or Mixture:

GHS Classification:		
Health	Environmental	Physical
Eye Irritant Category 2 (H319) Skin Irritant Category 2 (H315) Skin Sensitizer Category 1 (H317) Specific Target Organ Toxicity Category 3 (H335)	Not Hazardous	Not Hazardous

EU Classification: Xi, R36/37/38, R43

## 2.2 Label Elements:

**Signal Word:** Warning



**Contains:** Aromatic and aliphatic dimethacrylates

Hazard Phrases	Precautionary Phrases
H315 Causes skin irritation H319 Causes serious eye irritation H317 May cause an allergic skin reaction H335 May cause respiratory irritation	P261 Avoid breathing mist, vapors or spray. P264 Wash thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the work place. P280 Wear protective gloves, eye protection, and face protection. P302 + P352 IF ON SKIN: Wash with plenty of water. P333 + P313 If skin irritation or rash occurs: Get medical attention. P362 + P364 Take off contaminated clothing and wash it before reuse. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present, and easy to do. P337 + P313 If eye irritation persists: Get medical attention. P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a POISON CENTER if you feel unwell. P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents and container in accordance with local and national regulations.

**2.3 Other Hazards:** None known.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2 Mixture:

Hazardous Components	C.A.S. #	EINECS #	Classification	WT %
Aromatic and aliphatic dimethacrylates	Mixture	Mixture	Xi, R36/37/38, R43 Skin Irrit Cat. 2 (H315), Eye Irrit Cat 2 (H319), Skin Sens. Cat 1 (H317), STOT SE 3 (H335)	90-100
Ethyl 4— dimethylaminobenzoate	10287-53-3	233-634-3	Xi R36/37/38 Skin Irrit Cat 2 (H315), Eye Irrit Cat 2 (H319), STOT SE 3 (H335)	1-5

The exact concentration is being withheld as a trade secret.

Refer to Section 16 for the full text of the GHS and EU Classifications.

## 4. FIRST AID MEASURES

### 4.1 Description of First Aid Measures:

<b>Eye</b>	Flush victim's eyes with water for several minutes, while holding the eyelids apart. Get medical attention if irritation persists.
<b>Skin</b>	Remove contaminated clothing. Wash skin thoroughly with soap and water for several minutes. Get medical attention if irritation or rash develops. Launder clothing before re-use.
<b>Inhalation</b>	Move victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, have qualified personnel administer oxygen.
<b>Ingestion</b>	If conscious, wash mouth out with water. Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Get medical attention if you feel unwell.

### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed:

May cause eye and skin irritation. Contact with skin may illicit an allergic reaction. If swallowed, may cause gastrointestinal irritation. Inhalation may cause respiratory irritation.

### 4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed:

Immediate medical attention should not be required.

**Note to Physicians (Treatment, Testing, and Monitoring):** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing Media:

Use carbon dioxide, foam, dry chemical or water fog

### 5.2 Special Hazards Arising from the Substance or Mixture:





Heat of fire may cause an exothermic autopolymerization reaction. Emits toxic fumes under fire conditions. Closed containers may explode due to pressure build up when exposed to extreme heat.

### 5.3 Advice for Fire-Fighters:

**Fire Fighting Procedures:** Cool exposed intact containers with water spray.

**Precautions for Fire Fighters:** Firefighters should wear full emergency equipment and approved positive pressure self-contained breathing apparatus.

#### Recommended Protective Equipment for Fire Fighters:



EYES/FACE	HANDS	RESPIRATORY	THERMAL
			

## 6. ACCIDENTAL RELEASE MEASURES

**6.1 Personal Precautions, Protective Equipment and Emergency Procedures:**

Avoid contact with skin, eyes, or clothing. Avoid breathing vapors.

**Recommended Personal Protective Equipment for Containment and Clean-up:**

EYES/FACE	HANDS	RESPIRATORY	SKIN
			

**6.2 Environmental Precautions:**

Prevent entry into sewers and waterways. Report releases as required by local and national authorities.

**6.3 Methods and Material for Containment and Cleaning up:**

Contain and absorb spills with inert material and transfer to a suitable container for disposal. Wash spill site with water and detergent. Do not allow spills to enter sewers or waterways.

**6.4 Reference to Other Sections:**

Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.

## 7. HANDLING AND STORAGE

**7.1 Precautions for Safe Handling:**

Avoid contact with eyes, skin, and clothing. Avoid breathing vapors or mist. Wash thoroughly after handling. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation.

Empty containers retaining product residues can be hazardous. Follow all SDS precautions when handling empty containers.

**7.2 Conditions for Safe Storage, Including Any Incompatibilities:**

Store in a cool, dry, well-ventilated area. Keep container tightly closed when not in use. Protect from physical damage. Keep away from oxidizers and other incompatible materials.

**7.3 Specific End Use (s):** For professional use only.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1 Control Parameters:**

Occupational Exposure Limits:		
Aromatic and aliphatic dimethacrylates	United States	None Established
	Germany	None Established
	United Kingdom	None Established
	European Union	None Established
Ethyl 4-dimethylaminobenzoate	United States	None Established
	Germany	None Established
	United Kingdom	None Established
	European Union	None Established
Biological Exposure Limits: None Established		

## 8.2 Exposure Controls:

**Appropriate Engineering Controls:** Use with adequate general or local exhaust ventilation to minimize exposures levels.

### Individual Protection Measures (PPE):



**Specific Eye/face Protection:** Chemical safety goggles should be worn if needed to avoid eye contact.

**Specific Skin Protection:** Wear rubber or other impervious gloves to avoid skin contact. Consult glove supplier for thickness and breakthrough times.

**Specific Respiratory Protection:** None should be needed under normal use. If ventilation is inadequate, an approved respirator or supplied air respirator appropriate should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

**Specific Thermal Hazards:** None required.

### Recommended Personal Protective Equipment

EYES/FACE	HANDS	RESPIRATORY	SKIN
			

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on Basic Physical and Chemical Properties:

<b>Appearance:</b>	Clear amber liquid	<b>Explosive limits:</b>	<b>LEL:</b> Not applicable <b>UEL:</b> Not applicable
<b>Odor:</b>	Methacrylate odor	<b>Vapor pressure (mmHg):</b>	Not applicable
<b>Odor threshold:</b>	Not determined	<b>Vapor density:</b>	Not applicable
<b>pH:</b>	Not applicable	<b>Relative density:</b>	1.2

<b>Melting/freezing point:</b>	Not determined	<b>Solubility(ies):</b>	Not available
<b>Initial boiling point and boiling range:</b>	Not applicable	<b>Partition coefficient: n-octanol/water:</b>	Not applicable
<b>Flash point:</b>	Not applicable	<b>Auto-ignition temperature:</b>	Not applicable
<b>Evaporation rate:</b>	Not applicable	<b>Decomposition temperature:</b>	Not determined
<b>Flammability (solid, gas):</b>	Not applicable	<b>Viscosity:</b>	Not determined
<b>Explosive Properties:</b>	Not explosive	<b>Oxidizing Properties:</b>	Not an oxidizer

**9.2 Other Information:** None available

## 10. STABILITY AND REACTIVITY

<b>10.1 Reactivity:</b> None known.
<b>10.2 Chemical Stability:</b> Stable under normal condition.
<b>10.3 Possibility of Hazardous Reactions:</b> Polymerization can occur. Conditions leading to polymerization are excessive heat, oxygen-free atmosphere inhibitor depletion (due to excessive aging), direct sunlight, and contamination with polymerization catalysts.
<b>10.4 Conditions to Avoid:</b> Avoid extreme temperatures, visible light, and ultraviolet.
<b>10.5 Incompatible materials:</b> Avoid oxidizing agents, reducing agents, and strong bases.
<b>10.6 Hazardous Decomposition Products:</b> Thermal decomposition may release oxides of carbon and irritating smoke and fumes.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on Toxicological Effects:

<b><u>Potential Health Effects:</u></b> <b><u>Eyes:</u></b> Liquid and vapors can cause moderate to severe irritation with tearing and redness. <b><u>Skin:</u></b> Skin contact may cause irritation. May cause allergic skin reaction (skin sensitization). <b><u>Ingestion:</u></b> May cause mouth, throat and gastrointestinal irritation, nausea and vomiting. <b><u>Inhalation:</u></b> Vapors or mists may cause respiratory tract irritation with coughing, mucous production and shortness of breath.
<b><u>Chronic Health Effects:</u></b> None known.
<b><u>Irritation:</u></b> No data available.
<b><u>Corrosivity:</u></b> No data available.
<b><u>Sensitisation:</u></b> No data available

<b><u>Carcinogenicity:</u></b> None of the components of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH or the EU CLP.
<b><u>Mutagenicity:</u></b> No data available.
<b><u>Medical Conditions Aggravated by Exposure:</u></b> Individuals with pre-existing eye and skin conditions may be at increased risk from exposure.
<b><u>Acute Toxicity Data:</u></b> Aromatic and aliphatic dimethacrylates: Oral rat LD50: 10,837 mg/kg Ethyl 4-dimethylaminobenzoate: Oral rat LD50: >5,000 mg/kg
<b><u>Reproductive Toxicity Data:</u></b> No data available.
<b><u>Specific Target Organ Toxicity (STOT):</u></b> <u>Single Exposure:</u> No data available.  <u>Repeated Exposure:</u> No data available.

## 12. ECOLOGICAL INFORMATION

<b>12.1 Toxicity:</b> No ecotoxicity data available
<b>12.2 Persistence and Degradability:</b> No data is currently available
<b>12.3 Bio-accumulative Potential:</b> No data is currently available
<b>12.4 Mobility in Soil:</b> No data is currently available
<b>12.5 Results of PBT and vPvB Assessment:</b> Not applicable.
<b>12.6 Other Adverse Effects:</b> None

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste Treatment Methods:

<b>Regulations:</b> Dispose in accordance with all national and local regulations.
<b>Properties (Physical/Chemical) Affecting Disposal:</b> This product will polymerize when exposed to sunlight. Empty containers retaining product residues can be hazardous. Follow all SDS precautions when handling empty containers.
<b>Waste Treatment Recommendations:</b> Dispose in accordance with national and local regulations.

## 14. TRANSPORT INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
DOT	None	Not Regulated	None	None	Not applicable

<b>ADR/RID</b>	None	Not Regulated	None	None	Not applicable
<b>IMDG</b>	None	Not Regulated	None	None	Not applicable
<b>IATA/ICAO</b>	None	Not Regulated	None	None	Not applicable

**14.6 Special Precautions for User:** Not applicable.

**14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable.

## 15. REGULATORY INFORMATION

**15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:**

### U.S. Federal Regulations

**Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):** This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**Toxic Substances Control Act (TSCA):** This product is a medical device and not subject to chemical notification requirements.

**Clean Water Act (CWA):** This material is not regulated under the Clean Water Act.

**Clean Air Act (CAA):** This material is not regulated under the Clean Air Act.

**Superfund Amendments and Reauthorization Act (SARA) Title III Information:**

**SARA Section 311/312 (40 CFR 370) Hazard Categories:**

<b>Immediate Hazard:</b>	<b>Yes</b>	<b>Pressure Hazard:</b>	<b>No</b>
<b>Delayed Hazard:</b>	<b>No</b>	<b>Reactivity Hazard:</b>	<b>No</b>
<b>Fire Hazard:</b>	<b>No</b>		

**This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):**

<b>Components</b>	<b>C.A.S. #</b>	<b>WT %</b>
None		

### State Regulations

**California:** This product contains the following substances known to the state of California to cause cancer and/or reproductive toxicity:

<b>Components</b>	<b>C.A.S. #</b>	<b>WT %</b>
Toluene	108-88-3	0.05%

### International Regulations



**Canadian Workplace Hazardous Materials Information System (WHMIS):** Medical devices are not subject to WHMIS.

**Canadian Environmental Protection Act:** This product is a medical device and not subject to chemical notification requirements.

This SDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the SDS contains all of the information required by the CPR.

**European Inventory of Existing Chemicals (EINECS):** This product is a medical device and not subject to chemical notification requirements.

**EU REACH:** All components requiring registration have been pre-registered.

**Australian Inventory of Chemical Substances:** This product is a medical device and not subject to chemical notification requirements.

**China Inventory of Existing Chemicals and Chemical Substances:** This product is a medical device and not subject to chemical notification requirements.

**Japanese Existing and New Chemical Substances:** This product is a medical device and not subject to chemical notification requirements.

**Korean Existing Chemicals List:** This product is a medical device and not subject to chemical notification requirements.

**Philippine Inventory of Chemicals and Chemical Substances:** This product is a medical device and not subject to chemical notification requirements.

**15.2 Chemical Safety Assessment:** None required.

## 16. OTHER INFORMATION

HMIS Hazard Rating:

Health – 2      Flammability – 0      Physical Hazard – 0

Full text of Classification abbreviations used in Section 2 and 3:

Xi Irritant

R36/37/38 irritating to eyes, respiratory system, and skin

R43 May cause sensitization by skin contact

Eye Irrit Cat 2 Eye Irritant Category 2

Skin Irrit Cat 2 Skin Irritant Category 2

Skin Sens Cat 1 Skin Sensitizer Category 1

STOT SE 3 Specific Target Organ Toxicity Category 3

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Supersedes: 24 June 2011

Date Revised: 22 August 2014

Revision Summary: Converted MSDS to Reach SDS. Updated all sections. Updated part numbers.

Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for components, IUCLID Dataset EU Chemical Bureau, ESIS, Country websites for occupational exposure limits.