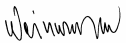


## DENTSPLY CANADA LTD. MATERIAL SAFETY DATA SHEET/FICHE SIGNALÉTIQUE

|                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                  |                                                        |                                                                                                        |                                                                                                          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>SECTION 1 - PRODUCT IDENTIFICATION AND USE/IDENTIFICATION ET UTILISATION DU PRODUIT</b>                                                                                                                                                                                                                                |                                                                                                                                                                                  |                                                        |                                                                                                        |                                                                                                          |
| PRODUCT IDENTIFIER/<br>NOM/IDENTIFICATEUR DU <b>IRM LIQUID Zinc oxide Eugenol</b>                                                                                                                                                                                                                                         |                                                                                                                                                                                  |                                                        | PRODUCT IDENTIFICATION NUMBER (PIN)/<br>NUMERO D'IDENTIFICATION DU PRODUIT (NIP) <b>610004, 610007</b> |                                                                                                          |
| PRODUCT USE<br>USAGE DU PRODUIT <b>Dental</b>                                                                                                                                                                                                                                                                             |                                                                                                                                                                                  |                                                        |                                                                                                        |                                                                                                          |
| MANUFACTURER'S NAME/NOM DU FABRICANT<br><b>DENTSPLY Caulk</b>                                                                                                                                                                                                                                                             |                                                                                                                                                                                  |                                                        | SUPPLIER'S NAME/NOM DU FOURNISSEUR<br><b>DENTSPLY Canada Ltd.</b>                                      |                                                                                                          |
| STREET ADDRESS/NUMERO CIVIQUE<br><b>38 West Clark Avenue</b>                                                                                                                                                                                                                                                              |                                                                                                                                                                                  |                                                        | STREET ADDRESS/NUMERO CIVIQUE<br><b>161 Vinyl Court</b>                                                |                                                                                                          |
| CITY/VILLE<br><b>Milford</b>                                                                                                                                                                                                                                                                                              | PROVINCE<br><b>Delaware</b>                                                                                                                                                      |                                                        | CITY/VILLE<br><b>Woodbridge</b>                                                                        | PROVINCE<br><b>Ontario</b>                                                                               |
| POSTAL CODE POSTAL<br><b>17405-0872</b>                                                                                                                                                                                                                                                                                   | EMERGENCY TELEPHONE NO. D'URGENCE<br><b>1-800-424-9300<br/>1-703-527-3887</b>                                                                                                    |                                                        | POSTAL CODE POSTAL<br><b>L4L 4A3</b>                                                                   | EMERGENCY TELEPHONE NO. D'URGENCE<br><b>(905) 851-6060 or<br/>1-800-263-1437<br/>FAX# (905) 851-9809</b> |
| <b>SECTION 2 - HAZARDOUS INGREDIENTS/INGREDIENTS DANGEREUX</b>                                                                                                                                                                                                                                                            |                                                                                                                                                                                  |                                                        |                                                                                                        |                                                                                                          |
| HAZARDOUS INGREDIENTS/INGREDIENTS DANGEREUX                                                                                                                                                                                                                                                                               | %                                                                                                                                                                                | CAS NUMBER/<br>NUMERO CAS                              | LD <sub>50</sub>                                                                                       | OSHA PEL                                                                                                 |
| <b>Eugenol</b>                                                                                                                                                                                                                                                                                                            | <b>&gt;99</b>                                                                                                                                                                    | <b>99-53-0</b>                                         | <b>N.A.</b>                                                                                            | <b>N.A.</b>                                                                                              |
| <b>Acetic Acid</b>                                                                                                                                                                                                                                                                                                        | <b>&lt;1</b>                                                                                                                                                                     | <b>64-19-7</b>                                         | <b>10 ppm</b>                                                                                          | <b>10 ppm</b>                                                                                            |
| <b>SECTION 3 - PHYSICAL DATA/CHARACTERISTIQUES PHYSIQUES</b>                                                                                                                                                                                                                                                              |                                                                                                                                                                                  |                                                        |                                                                                                        |                                                                                                          |
| PHYSICAL STATE/ÉTAT<br>PHYSIQUE<br><b>Liquid</b>                                                                                                                                                                                                                                                                          | ODOUR AND APPEARANCE/ODEUR ET APPARENCE:<br><b>Colourless or pale yellow liquid. Odour is oil of cloves.</b>                                                                     |                                                        |                                                                                                        | Chemical Family:<br><b>N.A.</b>                                                                          |
| VAPOUR PRESSURE (mm Hg)/<br>TENSION DE VAPEUR (mm Hg)<br><b>0.1 mm Hg@ 20°C</b>                                                                                                                                                                                                                                           | VAPOUR DENSITY (AIR-1)/<br>DENSITE DE LA VAPEUR (AIR-1)<br><b>N.E.</b>                                                                                                           | EVAPORATION RATE/<br>TAUX D'EVAPORATION<br><b>N.A.</b> | BOILING POINT (°C)/<br>POINT D'EBULLITION (°C)<br><b>254°C</b>                                         | FREEZING POINT (°C)/<br>POINT DE CONGELATION (°C)<br><b>-9°C</b>                                         |
| pH:<br><b>N.A.</b>                                                                                                                                                                                                                                                                                                        | SPECIFIC GRAVITY/DENSITE:<br><b>1.0 g/cm3</b>                                                                                                                                    | SOLUBILITY IN WATER:<br><b>Slightly Soluble</b>        |                                                                                                        |                                                                                                          |
| <b>SECTION 4 - FIRE AND EXPLOSION DATA/RISQUES D'INCENDIE OU D'EXPLOSION</b>                                                                                                                                                                                                                                              |                                                                                                                                                                                  |                                                        |                                                                                                        |                                                                                                          |
| FLAMMABILITY/INFLAMMABILITE<br>YES/OUI <input type="checkbox"/> NO/NON <input checked="" type="checkbox"/> IF YES, UNDER WHICH CONDITIONS?<br>SI OUI, DANS QUELLES CONDITIONS?                                                                                                                                            |                                                                                                                                                                                  |                                                        |                                                                                                        |                                                                                                          |
| MEANS OF EXTINCTION/MOYENS D'EXTINCTION: <b>Carbon dioxide, dry chemical or foam extinguishers.</b>                                                                                                                                                                                                                       |                                                                                                                                                                                  |                                                        |                                                                                                        |                                                                                                          |
| FLASHPOINT (°C) AND METHOD/<br>POINT D'ECLAIR (°C) ET METHODE DE DETERMINATION<br><b>Approximately 122°C closed cup</b>                                                                                                                                                                                                   | UPPER EXPLOSION LIMIT (% BY VOLUME)<br>SEUIL D'EXPLOSIVITE MAXIMAL (% PAR VOLUME)<br><b>N.E.</b>                                                                                 |                                                        | LOWER EXPLOSION LIMIT (% BY VOLUME)<br>SEUIL D'EXPLOSIVITE MINIMAL (% PAR VOLUME)<br><b>N.A.</b>       |                                                                                                          |
| AUTO-IGNITION TEMPERATURE (°C)/<br>TEMPERATURE D'AUTO-INFLAMMATION (°C):<br><b>N.A.</b>                                                                                                                                                                                                                                   | HAZARDOUS COMBUSTION PRODUCTS/<br>PRODUITS DANGEREUX DE COMBUSTION:<br><b>Material is not pyrophoric, does not react with water, not oxygen donor, material is shock stable.</b> |                                                        |                                                                                                        |                                                                                                          |
| SENSITIVITY TO IMPACT/SENSIBILITE A L'IMPACT MECANIQUE<br>EXPLOSION DATA/<br>DONNES SUR LES EXPLOSIONS<br><b>N.A.</b>                                                                                                                                                                                                     |                                                                                                                                                                                  |                                                        | SENSITIVITY TO STATIC DISCHARGE<br>SENSIBILITE A UNE DECHARGE STATIQUE<br><b>N.A.</b>                  |                                                                                                          |
| <b>SECTION 5 - REACTIVITY DATA/DONNES SUR LA REACTIVITE</b>                                                                                                                                                                                                                                                               |                                                                                                                                                                                  |                                                        |                                                                                                        |                                                                                                          |
| CHEMICAL STABILITY/STABILITE CHIMIQUE<br>YES/OUI: <input checked="" type="checkbox"/> NO/NON <input type="checkbox"/> IF NO, UNDER WHICH CONDITIONS?<br>SI NON, DANS QUELLES CONDITIONS?                                                                                                                                  |                                                                                                                                                                                  |                                                        |                                                                                                        |                                                                                                          |
| INCOMPATIBILITY WITH OTHER SUBSTANCES/<br>INCOMPATIBILITE AVEC D'AUTRES PRODUITS<br>YES/OUI: <input checked="" type="checkbox"/> NO/NON <input type="checkbox"/> IF SO, WHICH ONES? <b>Keep separated from strong bases and strong oxidizing agents. Ferric chloride And Potassium permanganate.</b><br>SI OUI, LESQUELS? |                                                                                                                                                                                  |                                                        |                                                                                                        |                                                                                                          |
| REACTIVITY, AND UNDER WHAT CONDITIONS?/CONDITIONS DE REACTIVITE<br><b>Excessive heat greater than 37°C.</b>                                                                                                                                                                                                               |                                                                                                                                                                                  |                                                        |                                                                                                        |                                                                                                          |
| HAZARDOUS DECOMPOSITION PRODUCTS/PRODUITS DE DECOMPOSITION DANGEREUX<br><b>Forms carbon monoxide and/or carbon dioxide upon burning.</b>                                                                                                                                                                                  |                                                                                                                                                                                  |                                                        |                                                                                                        |                                                                                                          |

## DENTSPLY CANADA LTD. MATERIAL SAFETY DATA SHEET/FICHE SIGNALÉTIQUE

|                                                                                                                                                                                                                                                                        |                                                      |                                                                                        |                                                         |                                             |                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------|-----------------------------------------------|
| PRODUCT IDENTIFIER/<br>NOM/IDENTIFICATEUR DU PRODUIT                                                                                                                                                                                                                   |                                                      |                                                                                        |                                                         | <b>IRM LIQUID Zinc oxide Eugenol</b>        |                                               |
| <b>SECTION 6 - TOXICOLOGICAL PROPERTIES/PROPRIÉTÉS TOXICOLOGIQUES</b>                                                                                                                                                                                                  |                                                      |                                                                                        |                                                         |                                             |                                               |
| ROUTE OF ENTRY/VOIES D'ABSORPTION                                                                                                                                                                                                                                      |                                                      |                                                                                        |                                                         |                                             |                                               |
| SKIN CONTACT/<br>CONTACT DERMIQUE                                                                                                                                                                                                                                      |                                                      | <b>X</b>                                                                               | SKIN ABSORPTION/<br>ABSORPTION DERMIQUE                 | —                                           | EYE CONTACT/<br>CONTACT OCULAIRE              |
|                                                                                                                                                                                                                                                                        |                                                      |                                                                                        |                                                         | INHALATION                                  | —                                             |
|                                                                                                                                                                                                                                                                        |                                                      |                                                                                        |                                                         |                                             | INGESTION <b>X</b>                            |
| EFFECTS OF ACUTE EXPOSURE TO PRODUCT/EFFETS DE L'EXPOSITION AIGUE AU PRODUIT<br><b>Liquid irritating to eyes and skin. Persons with known sensitization to eugenol are more likely to be irritated with exposure.</b>                                                  |                                                      |                                                                                        |                                                         |                                             |                                               |
| EFFECTS OF CHRONIC EXPOSURE TO PRODUCT/EFFETS DE L'EXPOSITION CHRONIQUE AU PRODUIT<br><b>Repeated contact may cause allergic dermatitis. Repeated daily oral doses of large amounts to rats caused liver damage. The effects in humans are unknown.</b>                |                                                      |                                                                                        |                                                         |                                             |                                               |
| EXPOSURE LIMITS/<br>SEUILS LIMITES D'EXPOSITION                                                                                                                                                                                                                        | IRRITANCY OF PRODUCT/<br>PROPRIÉTÉ IRRITANTE         | <b>Yes</b>                                                                             | SENSITIZATION TO PRODUCT/<br>SENSIBILISATION AU PRODUIT | <b>Yes</b>                                  | CARCINOGENICITY/<br>CANCÉROGENICITÉ           |
| <b>N.A.</b>                                                                                                                                                                                                                                                            |                                                      |                                                                                        |                                                         |                                             |                                               |
| TERATOGENICITY/<br>TERATOGENICITÉ                                                                                                                                                                                                                                      | REPRODUCTIVE TOXICITY/<br>EFFETS SUR LA REPRODUCTION | <b>N.A.</b>                                                                            | MUTAGENICITY/<br>MUTAGÉNICITÉ                           | <b>N.A.</b>                                 | SYNERGISTIC PRODUCTS/<br>PRODUITS SYNERGIQUES |
| <b>N.A.</b>                                                                                                                                                                                                                                                            | <b>N.A.</b>                                          |                                                                                        | <b>N.A.</b>                                             |                                             |                                               |
| <b>SECTION 7 - PREVENTIVE MEASURES/MESURES PREVENTIVES</b>                                                                                                                                                                                                             |                                                      |                                                                                        |                                                         |                                             |                                               |
| PERSONAL PROTECTIVE EQUIPMENT/MATÉRIEL PERSONNEL DE PROTECTION<br><b>Protective gloves, goggles, and apron.</b>                                                                                                                                                        |                                                      |                                                                                        |                                                         |                                             |                                               |
| GLOVES (SPECIFY)/GANTS (PRÉCISER):                                                                                                                                                                                                                                     |                                                      | RESPIRATOR (SPECIFY)/APPAREIL RESPIRATOIRE (PRÉCISER)                                  |                                                         | EYE (SPECIFY)/APPAREIL OCULAIRE (PRÉCISER): |                                               |
| <b>Rubber gloves.</b>                                                                                                                                                                                                                                                  |                                                      | <b>None required during normal use of this product. Avoid casual breathing vapors.</b> |                                                         | <b>Close fitting protective goggles.</b>    |                                               |
| FOOTWEAR (SPECIFY)/CHAUSSURES (PRÉCISER)                                                                                                                                                                                                                               |                                                      | CLOTHING (SPECIFY)/VÊTEMENTS (PRÉCISER)                                                |                                                         | OTHER (SPECIFY)/AUTRES (PRÉCISER)           |                                               |
| <b>N.A.</b>                                                                                                                                                                                                                                                            |                                                      | <b>Rubber apron.</b>                                                                   |                                                         |                                             |                                               |
| ENGINEERING CONTROLS (SPECIFY, EG, VENTILATION, ENCLOSED PROCESS)/INSTALLATION TECHNIQUES<br><b>Local exhaust recommended for ventilation.</b>                                                                                                                         |                                                      |                                                                                        |                                                         |                                             |                                               |
| LEAK AND SPILL PROCEDURE/PROCÉDURES EN CAS DE FUITES ET DE DEVERSEMENTS<br><b>Soak material up by using sand or vermiculite, then scoop up material and place in a closed metal container.</b>                                                                         |                                                      |                                                                                        |                                                         |                                             |                                               |
| WASTE DISPOSAL/ÉLIMINATION DES RÉSIDUS:<br><b>Dispose in accordance with Federal, Provincial and Local environmental regulations.</b>                                                                                                                                  |                                                      |                                                                                        |                                                         |                                             |                                               |
| HANDLING PROCEDURES AND EQUIPMENT/MÉTHODES ET ÉQUIPEMENT POUR LA MANUTENTION:<br><b>Observe normal warehouse handling procedures.</b>                                                                                                                                  |                                                      |                                                                                        |                                                         |                                             |                                               |
| STORAGE REQUIREMENTS/EXIGENCES EN MATIÈRE D'ENTREPOSAGE:<br><b>Store in tight full containers, well sealed, protected from light. Do not expose to temperatures above 35°C. Eugenol darkens and thickens upon exposure to air. Store away from food and beverages.</b> |                                                      |                                                                                        |                                                         |                                             |                                               |
| SPECIAL SHIPPING INFORMATION/RENSEIGNEMENTS SPÉCIAUX EN MATIÈRE D'EXPÉDITION<br><b>Not Regulated</b>                                                                                                                                                                   |                                                      |                                                                                        |                                                         |                                             |                                               |
| <b>SECTION 8 - FIRST AID MEASURES/PREMIER SOINS</b>                                                                                                                                                                                                                    |                                                      |                                                                                        |                                                         |                                             |                                               |
| SPECIFIC MEASURES/PREMIERS SOINS PARTICULIERS À ADMINISTRER                                                                                                                                                                                                            |                                                      |                                                                                        |                                                         |                                             |                                               |
| <b>Eye contact:</b> In case of contact, flush with flowing water for 15 minutes, including under the eyelids and get medical attention.                                                                                                                                |                                                      |                                                                                        |                                                         |                                             |                                               |
| <b>Skin contact:</b> Flush with flowing water then wash area with mild soap and water.                                                                                                                                                                                 |                                                      |                                                                                        |                                                         |                                             |                                               |
| <b>Swallow:</b> Consult a physician immediately.                                                                                                                                                                                                                       |                                                      |                                                                                        |                                                         |                                             |                                               |
| <b>SECTION 9 - PREPARATION DATE OF MSDS/RENSEIGNEMENTS SUR LA PRÉPARATION DE LA FS</b>                                                                                                                                                                                 |                                                      |                                                                                        |                                                         |                                             |                                               |
| PREPARED BY (GROUP, DEPARTMENT, ETC.)<br>PRÉPARÉE PAR (GROUPE, SERVICE, PERSONNE, ETC.)                                                                                                                                                                                |                                                      | PHONE NUMBER/NO. DE TÉLÉPHONE                                                          |                                                         | DATE                                        |                                               |
| <br><b>Cadentrix</b>                                                                                                                                                                |                                                      | <b>(416) 994-9356</b>                                                                  |                                                         | <b>Rev. 2      1 June 2005</b>              |                                               |

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