

## Safety Data Sheet

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### 1. PRODUCT IDENTIFICATION

**Trade Name (as labeled):** Densfil (20 through 40), Gutta Master (20 through 40), ProFile Vortex (20 through 40), ProTaper Universal (F1 through F4), ProTaper Next (X2, X3, X4), Thermafil (20 through 40), Thermafil Plus (20 through 40), Domino (20 through 40), WaveOne Obturators (Small, Primary, Large), GT Obturators (all sizes), GTX Obturators (all sizes)

**Chemical Name/Classification:** LIQUID CRYSTAL POLYMER-Carbomonocyclic Carbopolycyclic Polyester and Gutta Percha

**Product Identifier (Part/Item Number):** Liquid Crystal Polymer with 50% Tungsten and Gutta Percha

**U.N. Number:** Not Applicable

**U.N. Dangerous Goods Classification:** Not Applicable

**Recommended Use:** Obturating Root Canals

**Restrictions on Use:** None

**Manufacturer/Supplier Name:** DENTSPLY Tulsa Dental Specialties

**Manufacturer/Supplier Address:** 608 Rolling Hills Drive, Johnson City, Tn. 37604

**Manufacturer/Supplier Telephone Number:** 1-800-924-7393

**Emergency Contact Telephone Number:** 1-800-262-8200

**Email address:** [chemtrec@chemtrec.com](mailto:chemtrec@chemtrec.com)

### 2. HAZARD(S) IDENTIFICATION

**Hazard/Danger Classification:**

Health	Environmental	Physical
Not Applicable	Not Applicable	Not Applicable

**Associated Hazards:**

Hazard Statements	Precautionary Statements
Not Applicable	Not Applicable

**EU Classification:** Not Applicable

**EU Risk (R) and Safety (S) Phrases:** Not Applicable

**Refer to Section 16 for the full text of the EU Classifications and R Phrases.**

# DENTSPLY Maillefer

## 3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Components	C.A.S. # EC#	IUPAC Name	Substance Classification	WT %
Tungsten	7440-33-7	Tungsten	Inorganic	50
Zinc Oxide	1314-13-2	Zinc Oxide	Inorganic	77

Non Hazardous Components	C.A.S # EC#	IUPAC Name	Substance Classification	WT%
Gutta Percha	9003- 31-0	trans-1, 4-polyisoprene	Organic	20
Liquid Crystal Polymer	147310-94-9	Carbomonocyclic Carbopolycyclic Polyester	Organic	50

Refer to Section 16 for the full text of the GHS and H phrases and EU Classifications and R Phrases.

## 4. FIRST-AID MEASURES

Routes of Exposure	First Aid Instructions
Eye	Rinse opened eye for several minutes under running water.
Skin	Flush skin with soap and water
Inhalation	Supply fresh air; consult a doctor in case of complaints.
Ingestion	If symptoms persist consult a doctor.
Other	Not Applicable
<b>Note to Physicians (Treatment, Testing, and Monitoring)</b>	
Not Applicable	

## 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media:</b>	Water, ABC dry chemical, or Protein type air foams.
<b>Fire Fighting Procedures:</b>	Not Applicable
<b>Specific Hazards Arising from the Chemical:</b>	Carbon monoxide can be emitted at > 400°C
<b>Precautions for Fire Fighters:</b>	Firefighters should be equipped with self-contained breather apparatus and turn-out gear

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**Recommended Protective Equipment for Fire Fighters:** Wear positive pressure self-contained breathing apparatus (SCBA) during the attack phase of firefighting operations and during cleanup in enclosed or poorly ventilated areas immediately after a fire.

EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, PPE and Emergency Procedures:** Person related safety precautions- not required

**Environmental Precautions:** None

**Methods and Materials for Containment and Clean-up:** Placed in suitable containers for disposal by local, state, or federal waste disposal regulations.

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

EYES/FACE	SKIN	RESPIRATORY
		

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** None

**Conditions for Safe Storage:** Control environmental maintaining a temperature range of 60°F to 86° F.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits:** 15mg/m<sup>3</sup>

**Biological Exposure Limits:** Not Applicable

**Appropriate Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits. Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels.

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<b>Individual Protection Measures (PPE)</b> <b>Specific Eye/face Protection:</b> Not Applicable <b>Specific Skin Protection:</b> Not Applicable <b>Specific Respiratory Protection:</b> Not Applicable <b>Specific Thermal Hazards:</b> Not Applicable			
<b>Recommended Personal Protective Equipment</b>			
EYES/FACE	SKIN	RESPIRATORY	THERMAL
			Not Applicable
<b>Environmental Exposure Controls:</b> Not Applicable			
<b>General Hygiene Considerations and Work Practices:</b> Not Applicable			
<b>Protective Measures During Repair and Maintenance of Contaminated Equipment:</b> Not Applicable			

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Pink coating on Gray carrier	<b>Explosive limits:</b>	Not Available
<b>Odor:</b>	None reported	<b>Vapor pressure:</b>	Not Available
<b>Odor threshold:</b>	Not Applicable	<b>Vapor density:</b>	Not Available
<b>pH:</b>	7	<b>Relative density:</b>	1.3g/cc
<b>Melting/freezing point:</b>	<400°C	<b>Solubility:</b>	Negligible
<b>Initial boiling point and range:</b>	Not Applicable	<b>Partition coefficient: n-octanol/water:</b>	Not Available
<b>Flash point:</b>	Not Available	<b>Auto-ignition temperature:</b>	Not Available
<b>Evaporation rate:</b>	Not Available	<b>Decomposition temperature:</b>	540°C
<b>Flammability:</b>	Not Available	<b>Viscosity:</b>	Not Available
<b>Explosive Properties:</b>	Not Available	<b>Oxidizing Properties:</b>	Not Available

## 10. STABILITY AND REACTIVITY

# DENTSPLY Maillefer

<b>Reactivity:</b> None
<b>Chemical Stability:</b> Stable
<b>Possibility of Hazardous Reactions:</b> No
<b>Conditions to Avoid:</b> Temperatures <400°C
<b>Incompatible materials:</b> None
<b>Hazardous Decomposition Products:</b> N/A

## 11. TOXICOLOGICAL INFORMATION

<b>Signs and Symptoms of Overexposure:</b> None							
<b>Emergency Overview:</b> Liquid Crystal Polymer, and Tungsten are biocompatible. Gutta Percha is trans-1, 4-polyisoprene and Zinc Oxide.							
Likely Routes of Exposure	Signs and Symptoms	Single, Repeated, or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute and Chronic Health Effect(s)	Target Organ(s)	LD50 Testing Data (as applicable)	LC50 Testing Data (as applicable)
<b>Eye:</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Skin:</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Inhalation:</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Ingestion:</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Other:</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Medical Conditions Aggravated by Exposure:</b> None.							
<b>Carcinogenicity:</b> None.							

## 12. ECOLOGICAL INFORMATION

<b>Toxicity:</b> No hazards
<b>Persistence and Degradability:</b> Stable
<b>Bio-accumulative Potential:</b> None
<b>Mobility in Soil:</b> None
<b>Other Adverse Effects:</b> None
<b>Results of PBT/vPvB Assessment:</b> None

## 13. DISPOSAL CONSIDERATIONS

# DENTSPLY Maillefer

**Regulations:** Dispose of container and unused contents in accordance with federal, state and local requirements.

**Properties (Physical/Chemical) Affecting Disposal:** None

**Waste Treatment Recommendations:** None required.

## 14. TRANSPORT INFORMATION

**UN Identification Number:** Not Applicable – Liquid Crystal Polymer, 3089 – Tungsten, 3077 - Zinc Oxide and Not Applicable - trans-1,4-polyisoprene

**UN Proper Shipping Name:** Not Applicable

**Transport hazard class(es):** Not regulated

**Packing Group:** III

**Special precautions for user:** None



Include as applicable

## 15. REGULATORY INFORMATION

### U.S. Federal Regulations

**Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):** Not regulated

**Toxic Substances Control Act (TSCA):** Not regulated

**Clean Water Act (CWA):** Not regulated

**Clean Air Act (CAA):** Not regulated

**Superfund Amendments and Reauthorization Act (SARA) Title III Information:** None

**SARA Section 311/312 (40 CFR 370) Hazard Categories:** None

<b>Immediate Hazard:</b>	None	<b>Pressure Hazard:</b>	None
<b>Delayed Hazard:</b>	None	<b>Reactivity Hazard:</b>	None
<b>Fire Hazard:</b>	None		

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

# DENTSPLY Maillefer

Components	C.A.S. #	WT %
N/A	N/A	N/A

## State Regulations

**California:** This product contains the following chemical(s) known to the State of California to cause cancer, birth defects or reproductive harm:

Components	C.A.S. #	WT %
Tungsten	7440-33-7	50
Zinc Oxide	1314-12-2	77

## International Regulations

**Canadian Environmental Protection Act:** None

**Canadian Workplace Hazardous Materials Information System (WHMIS):** None

**European Inventory of Existing Chemicals (EINECS):** None

## 16. OTHER INFORMATION

Full text of Classification abbreviations used in Section 2 and 3: None

Date of SDS Preparation/Revision: 01/02/2013

Data Sources: Supplier