

SAFETY DATA SHEETS

This SDS packet was issued with item:

071717834

The safety data sheets (SDS) in this packet apply to one or more components included in the items listed below. Items listed below may require one or more SDS. Please refer to invoice for specific item number(s).

071717453 071717578

Safety Data Sheet

Date Issued: 1995
Document Number: SDSDNFTO
Date Revised: 3/23/2011
Revision Number: 01

1. PRODUCT IDENTIFICATION

Trade Name (as labeled): DENSFIL TITANIUM OBTURATORS
Chemical Name/Classification: TITANIUM- GUTTA PERCHA
Product Identifier (Part/Item Number): 6 AL4V ELI. Titanium and Dry Natural Rubber
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 Maillefer
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@chemtree.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.

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3. COMPOSITION AND INFORMATION ON INGREDIENTS

Non Hazardous Components	C.A.S. # EC#	IUPAC Name	Substance Classification	WT %
Titanium	7440-32-6	titanium		Balance
	C.A.S # EC#	IUPAC Name	Substance Classification	WT%
Dry Natural Rubber	N/A	Gutta Percha	Natural	Balance

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	Generally the product does not irritate the skin.
Inhalation	Supply fresh air; consult a doctor in case of complaints.
Ingestion	If symptoms persist consult a doctor.
Other	Not Applicable
Note to Physicians (Treatment, Testing, and Monitoring)	
Not Applicable	

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam
Fire Fighting Procedures:	No special measures required
Specific Hazards Arising from the Chemical:	No special measures required
Precautions for Fire Fighters:	No special measures required

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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: N/A

Environmental Precautions: N/A

Methods and Materials for Containment and Clean-up: Place 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: Not Applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: Not Applicable

Biological Exposure Limits: Not Applicable

Appropriate Engineering Controls: Not Applicable

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pink coating over silver file	Explosive limits:	Not Available
Odor:	None reported	Vapor pressure:	Not Available
Odor threshold:	Not Applicable	Vapor density:	Not Available
pH:	7	Relative density:	4.5g/cc
Melting/freezing point:	1677°C	Solubility:	Negligible
Initial boiling point and range:	3277°C @ 760mm Hg	Partition coefficient: n-octanol/water:	Not Available
Flash point:	Not Available	Auto-ignition temperature:	Not Available
Evaporation rate:	Not Available	Decomposition temperature:	Not Available
Flammability:	Not Available	Viscosity:	Not Available
Explosive Properties:	Not Available	Oxidizing Properties:	Not Available

10. STABILITY AND REACTIVITY

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Reactivity: None
Chemical Stability: Stable
Possibility of Hazardous Reactions: When used and handled according to specifications, this product does not have any harmful effects.
Conditions to Avoid: None
Incompatible materials: mineral acids, halogens, carbon dioxide, strong oxidizing agents.
Hazardous Decomposition Products: N/A

11. TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure: None							
Emergency Overview: Titanium is biocompatible. Gutta Percha is a nonhazardous natural rubber							
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)
Eye:	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Skin:	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Inhalation:	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ingestion:	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other:	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medical Conditions Aggravated by Exposure: None.							
Carcinogenicity: None.							

12. ECOLOGICAL INFORMATION

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

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13. DISPOSAL CONSIDERATIONS

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

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

Immediate Hazard:	None	Pressure Hazard:	None
Delayed Hazard:	None	Reactivity Hazard:	None

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Fire Hazard:	None
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This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):

Components	C.A.S. #	WT %
None		

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 %
None		

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: 3/11/11	
Data Sources: Supplier	

DENTSPLY Maillefer Safety Data Sheet

Conforms with OSHA Hazard Communication Standard
(CFR 29 1910.1200) HazCom 2012

Date Issued: 1995
Document Number: SDSDNFTO
Date Revised: 082117
Revision Number: 03

1. PRODUCT IDENTIFICATION

Trade Name (as labeled): DENSFIL TITANIUM OBTURATORS

Chemical Name/Classification: TITANIUM

Product Identifier (Part/Item Number): 6 AL4V ELI. Titanium

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 Maillefer

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

Manufacturer/Supplier Telephone Number: 1-800-924-7393 (**Product Information**)

Emergency Contact Telephone Number: Chemtrec (800) -262-8200

Email address: 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 Safety Data Sheet

Conforms with OSHA Hazard Communication Standard
(CFR 29 1910.1200) HazCom 2012

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Components	C.A.S. # EC#	IUPAC Name	Substance Classification	WT %
None				

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	Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids.
Skin	Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before use.
Inhalation	Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult. Give oxygen. Get medical aid.
Ingestion	Do not induce vomiting. Immediately give two glasses of water, a little at a time. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, lower head below waist to prevent fluid from entering lungs.
Most important symptoms of exposure	Choking
Other	Not Applicable
Note to Physicians (Treatment, Testing, and Monitoring)	
Not Applicable	

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Water, ABC dry chemical, or Protein type air foams.
Fire Fighting Procedures:	Not Applicable
Specific Hazards Arising from the Chemical:	Not Applicable
Precautions for Fire Fighters:	Not Applicable

DENTSPLY Maillefer Safety Data Sheet

Conforms with OSHA Hazard Communication Standard
(CFR 29 1910.1200) HazCom 2012

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: For respiratory protection use proper approved respirator when exposure limits are exceeded. For ventilation protection use local exhaust when cutting, grinding or welding. Eye protection and protective clothing should be worn when cutting, grinding or welding.

Environmental Precautions: None

Methods and Materials for Containment and Clean-up: Residues from cutting or grinding should be swept or vacuumed and 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	SKIN	
			

7. HANDLING AND STORAGE

Precautions for Safe Handling: None

Conditions for Safe Storage: Not Applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: Not Applicable

Biological Exposure Limits: Not Applicable

DENTSPLY Maillefer Safety Data Sheet

Conforms with OSHA Hazard Communication Standard
(CFR 29 1910.1200) HazCom 2012

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.

Individual Protection Measures (PPE)

Specific Eye/face Protection: : Surgical mask and eye protection

Specific Skin Protection: Gloves, material must be impermeable and resistant to the component

Specific Respiratory Protection: May be harmful if inhaled

Specific Thermal Hazards: Not Applicable

Recommended Personal Protective Equipment

EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

Environmental Exposure Controls: Not Applicable

General Hygiene Considerations and Work Practices: Not Applicable

Protective Measures During Repair and Maintenance of Contaminated Equipment: Not Applicable

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Silver	Explosive limits:	Not Available
Odor:	None reported	Vapor pressure:	Not Available
Odor threshold:	Not Applicable	Vapor density:	Not Available
pH:	7	Relative density:	4.5g/cc
Melting/freezing point:	1677°C	Solubility:	Negligible
Initial boiling point and range:	3277°C @ 760mm Hg	Partition coefficient: n-octanol/water:	Not Available
Flash point:	Not Available	Auto-ignition temperature:	Not Available
Evaporation rate:	Not Available	Decomposition temperature:	Not Available
Flammability:	Not Available	Viscosity:	Not Available

DENTSPLY Maillefer Safety Data Sheet

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Explosive Properties:	Not Available	Oxidizing Properties:	Not Available
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10. STABILITY AND REACTIVITY

Reactivity: None

Chemical Stability: Stable

Possibility of Hazardous Reactions: No

Conditions to Avoid: None

Incompatible materials: mineral acids, halogens, carbon dioxide, strong oxidizing agents.

Hazardous Decomposition Products: Irritating and toxic fumes.

11. TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure: None

Emergency Overview: Titanium is biocompatible.

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)
Eye:	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Skin:	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Inhalation:	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ingestion:	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other:	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Medical Conditions Aggravated by Exposure: None.

Carcinogenicity: None.

12. ECOLOGICAL INFORMATION

Toxicity: No hazards

Persistence and Degradability: Stable

Bio-accumulative Potential: None

DENTSPLY Maillefer Safety Data Sheet

Conforms with OSHA Hazard Communication Standard
(CFR 29 1910.1200) HazCom 2012

Mobility in Soil: None

Other Adverse Effects: None

Results of PBT/vPvB Assessment: None

13. DISPOSAL CONSIDERATIONS

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

UN Proper Shipping Name: Not Applicable

Transport hazard class(es): Not regulated

Packing Group: III

Special precautions for user: None

15. REGULATORY INFORMATION

U.S. Federal Regulations

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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

Immediate Hazard:	None	Pressure Hazard:	None
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DENTSPLY Maillefer Safety Data Sheet

Conforms with OSHA Hazard Communication Standard
(CFR 29 1910.1200) HazCom 2012

Delayed Hazard:	None	Reactivity Hazard:	None
Fire Hazard:	None		

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

Components	C.A.S. #	WT %
None		

State Regulations

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

Components	C.A.S. #	WT %
None		

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: 05/07/14

Data Sources: DENSFIL TITANIUM OBTURATORS SDS Rev01 03/11/11