SAFETY DATA SHEETS

This SDS packet was issued with item: 071717818

The safety data sheets (SDS) in this packet apply to the individual products listed below. Please refer to invoice for specific item number(s).

071717453 071717495 071717552 071717560 071717578 071717586 071717594 071717610 071717628 071717636 071717644 071717768 071717776 071717784 071717792 071717800 071717826 071717834 071717842 071717859

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@chemtrec.com

2. HAZARD(s) IDENTIFICATION

Hazard/Danger Classification:

Health	E	nvironmental	Physical
Not Applicable	Not Applic	able	Not Applicable
Associated Hazards:			
Hazard State	ments	Pr	ecautionary 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. COMPOSIT	TION AND I	NFORMATIO	N 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.

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 Physici Not Applicable	ans (Treatment, Testing, and Monitoring)	

4. FIRST-AID MEASURES

	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

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.



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 Handing: 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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Specific Thermal Hazards: No		al Protective Equipment	
EYES/FACE	SKIN	RESPIRATORY	THERMAL
8	Clours		N/A
Environmental Exposure Con	trols: Not Applicable		
General Hygiene Consideratio	ins and Wark Practicas	• Not Applicable	

9. PHYSICAL AND CHEMICAL PROPERTIES

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

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

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

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

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

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/Revision: 3/11/11

Data Sources: Supplier

Safety Data Sheet

Date Issued: 1995 Document Number: SDSDNFTO Date Revised:05/07/14 Revision Number: 02

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: <u>Chemtrec@chemtrec.com</u>

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.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Components	C.A.S. #	IUPAC Name	Substance Classification	WT %
	EC#			

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 Physician Not Applicable	(Treatment, Testing, and Monitoring)

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	

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.



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		
	C C C C C C C C C C C C C C C C C C C			

7. HANDLING AND STORAGE

Precautions for Safe Handing: 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: 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.

ingineering controls to control alroorne levels.				
Individual Protection Measu	Individual Protection Measures (PPE)			
Specific Eye/face Protection	: Surgical mask and eye p	rotection		
Specific Skin Protection: Glo	oves, material must be impe	rmeable and resistant to the co	mponent	
Specific Respiratory Protect	ion: May be harmful if inha	led		
Specific Thermal Hazards: N				
	Recommended Persona	l Protective Equipment		
EYES/FACE	SKIN	RESPIRATORY	THERMAL	
	Canal Canal			
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
рН:	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

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 Signs and Single, Severity Acute and Target LD50 Testing LC50 Testing **Routes of Symptoms** Repeated, or (Mild, Chronic **Organ(s)** Data (as Data (as Exposure Lifetime Moderate. Health applicable) applicable) Exposure Severe) Effect(s) N/A N/A N/A N/A Eye: N/AN/A N/A N/A N/A N/A Skin: N/A N/A N/A N/A N/A N/A Inhalation: N/A Ingestion: N/A N/A N/A N/A N/A N/A N/A Other: 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

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

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
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/Revision: 05/07/14

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