

SAFETY DATA SHEETS

This SDS packet was issued with item:

071717859

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 071717818 071717826 071717834 071717842

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: chemtree@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.

DENTSPLY Maillefer

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 |

DENTSPLY Maillefer

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

DENTSPLY Maillefer

| | | | |
|---|---|--|---------|
| 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

DENTSPLY Maillefer

| |
|---|
| 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 |

DENTSPLY Maillefer

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 |

DENTSPLY Maillefer

| | |
|--------------|------|
| 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 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 | |

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: 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 % |
|----------------------|-----------------|------------|--------------------------|------|
| 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

| | | | |
|--|---|--|---|
| 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

| | | | |
|--|---|--|---------|
| 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 |
| Explosive Properties: | Not Available | Oxidizing Properties: | Not Available |

DENTSPLY Maillefer

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 |
| Mobility in Soil: None |
| Other Adverse Effects: None |

DENTSPLY Maillefer

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 | | |

DENTSPLY Maillefer

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