

DENTSPLY Tulsa Dental Specialties

Safety Data Sheet

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1. PRODUCT IDENTIFICATION

Trade Name (as labeled): Trade name: NITI INSTRUMENTS
Chemical Name/Classification: Nickel Titanium
Product Identifier (Part/Item Number): ProGlider
U.N. Number: N/A
U.N. Dangerous Goods Classification: N/A
Recommended Use: Root Canals Procedure
Restrictions on Use: Use for dental applications only
Manufacturer/Supplier Name: DENTSPLY Tulsa Dental Specialties
Manufacturer/Supplier Address: 608 Rolling Hills Dr., Johnson City, TN 37604
Manufacturer/Supplier Telephone Number: 1-800-662-1202 (Product Information)
Emergency Contact Telephone Number: 1-800-262-8200
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
May cause eye irritation May be harmful if swallowed May be harmful if swallowed and enters airway May be harmful if inhaled	Wear eye/face protection Wash hands thoroughly after handling Wear protective gloves

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

Hazardous Components	C.A.S. # EINECS:	IUPAC Name	Substance Classification	WT %
	7440-32-6 231-142-3	titanium	F; R 15-17	25-50%
	7440-02-0 231-111-4	nickel	Carc. Cat. 3; T, Xi; R 40-43-48/23	50-100%

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	Seek immediate medical attention
Skin	Generally the product does not irritate the skin.
Inhalation	Supply fresh air; consult a doctor in case of complaints.
Ingestion	It is a choking hazard if ingestion, seek medical attention immediately.
Most important symptoms of exposure	N/A
Other	N/A
Note to Physicians (Treatment, Testing, and Monitoring)	
N/A	

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:	Not Applicable

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Recommended Protective Equipment for Fire Fighters:			
EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, PPE and Emergency Procedures: Eye/face protection, gloves, face mask.

Environmental Precautions: Do not allow to enter sewers/ surface or ground water.

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	THERMAL
			

7. HANDLING AND STORAGE




Precautions for Safe Handling: No special measures required.
Information about Fire and explosive materials. No special requirements

Conditions for Safe Storage: No special measures required.
Information about Fire and explosive materials. No special requirements

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: N/A

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Biological Exposure Limits: N/A			
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: N/A			
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:	N/A.
Odor:	Odorless	Vapor pressure:	Not applicable.
Odor threshold:	N/A	Vapor density:	Not applicable.
pH:	N/A	Relative density:	.234 lb./in ³
Melting/freezing point:	Melting 2390 F/ Freezing N/A	Solubility:	Insoluble
Initial boiling point and range:	N/A	Partition coefficient: n-octanol/water:	N/A
Flash point:	N/A	Auto-ignition temperature:	N/A
Evaporation rate:	N/A	Decomposition temperature:	N/A

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Flammability:	N/A	Viscosity:	N/A
Explosive Properties:	N/A	Oxidizing Properties:	proprietary

10. STABILITY AND REACTIVITY

Reactivity: N/A
Chemical Stability: Nitinol alloys are stable
Possibility of Hazardous Reactions: N/A
Conditions to Avoid: N/A
Incompatible materials: Acids, bases, and oxidizers
Hazardous Decomposition Products: N/A

11. TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure: Nitinol in the solid form is not considered a health hazard. For prolonged exposure to dust during the manufacturing process: Metallic taste, nausea, tightness of chest, fever, irritation of eyes, nose, throat and skin; loss of consciousness or death due to welding gases or lack of oxygen may occur.							
Emergency Overview: Not Available							
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:	Irritation	N/A	N/A	N/A	None known	N/A	N/A
Skin:	N/A	N/A	N/A	N/A	None known	N/A	N/A
Inhalation:	N/A	N/A	N/A	N/A	None known	N/A	N/A
Ingestion:	N/A	N/A	N/A	N/A	None known	N/A	N/A
Other:	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Medical Conditions Aggravated by Exposure: N/A							
Carcinogenicity: Not carcinogenic in the solid form							

12. ECOLOGICAL INFORMATION

Toxicity: No hazards

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Persistence and Degradability: Stable
Bio-accumulative Potential: N/A
Mobility in Soil: N/A
Other Adverse Effects: N/A
Results of PBT/vPvB Assessment: N/A

13. DISPOSAL CONSIDERATIONS

Regulations: Dispose of in accordance with applicable federal, state, and local regulations
Properties (Physical/Chemical) Affecting Disposal: N/A
Waste Treatment Recommendations: N/A

14. TRANSPORT INFORMATION

UN Identification Number: N/A
UN Proper Shipping Name: N/A
Transport hazard class(es): N/A
Packing Group: N/A
Special precautions for user: N/A

15. REGULATORY INFORMATION

U.S. Federal Regulations

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): N/A

Toxic Substances Control Act (TSCA): N/A

Clean Water Act (CWA): N/A

Clean Air Act (CAA): N/A

Superfund Amendments and Reauthorization Act (SARA) Title III Information: No components are listed as extremely hazardous substances. Product (dust and fume) is categorized as an immediate (acute) health hazard and a delayed (chronic) health hazard.

SARA Section 311/312 (40 CFR 370) Hazard Categories: Not hazardous unless processing creates dusts or Fumes.

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Immediate Hazard:	N/A	Pressure Hazard:	N/A
Delayed Hazard:	N/A	Reactivity Hazard:	N/A
Fire Hazard:	N/A		

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

Components	C.A.S. #	WT %
nickel	7440-02-0 231-111-4	35-60%

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 %
Titanium	7440-32-6 231-142-3	25-50%

International Regulations

Canadian Environmental Protection Act: This product is a medical device and not subject to chemical notification requirements.

Canadian Workplace Hazardous Materials Information System (WHMIS): Medical devices are not subject to WHMIS

European Inventory of Existing Chemicals (EINECS): This product is a medical device and not subject to chemical notification requirements.

16. OTHER INFORMATION

Full text of Classification abbreviations used in Section 2 and 3: N/A

Date of SDS Preparation/Revision: N/A

Data Sources: 11/13/2013