

DENTSPLY International
DENTSPLY PROSTHETICS

Safety Data Sheet

Safety Data Sheet (in compliance with Regulation (EC) 1907/2006, Regulation (EC) 1272/2008 and Regulation (EC) 453/2010)

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1. PRODUCT IDENTIFICATION

Trade Name (as labeled): Neoloid® All Purpose Duplicating Material
Product Identifier (Part/Item Number): N200010, N200015
U.N. Number: None
U.N. Dangerous Goods Classification: Not Regulated
Recommended Use: Model Duplicating Materials
Restrictions on Use: For Professional Use Only
Manufacturer/Supplier Name: Dentsply Prosthetics
Manufacturer/Supplier Address: 570 West College Ave.
York, PA 17405-0872
Manufacturer/Supplier Telephone Number: 717-845-7511 (Product Information)
Emergency Contact Telephone Number: 800-424-9300 Chemtrec
Email address: Prosthetics_MSDS@Dentsply.com

2. HAZARD(S) IDENTIFICATION

EU Classification (1999/45/EC): Not classified as Dangerous

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

Labeling in accordance with 1999/45/EC: None required

US Hazard Classification: Not Hazardous

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Components	C.A.S. #	EINECS #	Substance Classification	WT %
Non-Hazardous Ingredients	Proprietary	Proprietary	Not Applicable	60-80
Glycerin	56-81-5	200-289-5	Not Applicable	20-40

The exact concentration is being withheld as a trade secret.

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 eyes with water, holding the eyelids apart. Get medical attention if irritation persists.
Skin	Wash skin with soap and water. Get medical attention if irritation develops. Remove and launder clothing before re-use.
Inhalation	Remove victim to fresh air. If breathing is difficult have qualified personnel administer oxygen. Get medical attention if irritation persists.
Ingestion	Do not induce vomiting. Rinse mouth with water and give one glass of water to drink. Never give anything by mouth to an unconscious or drowsy person. Get medical attention.
Most important symptoms of exposure	May cause mild eye irritation. Prolonged skin contact may cause mild irritation. Inhalation of mist may cause mucous membrane and respiratory irritation.
Note to Physicians (Treatment, Testing, and Monitoring): Treat symptomatically. Immediate medical attention is not required.	

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Use media appropriate for surrounding fire.		
Fire Fighting Procedures:	Cool fire exposed containers and structures with water.		
Specific Hazards Arising from the Chemical:	Decomposition may release oxides of carbon, aldehydes and acrolein.		
Precautions for Fire Fighters:	Firefighters should wear full emergency equipment and approved positive pressure self-contained breathing apparatus.		
Recommended Protective Equipment for Fire Fighters:			
EYES/FACE	HANDS	RESPIRATORY	THERMAL
			

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, PPE and Emergency Procedures: Evacuate spill area and keep unprotected personnel away. Ventilate area. Wear appropriate protective clothing as described in Section 8. Avoid contact with skin, eyes or clothing.

Environmental Precautions: Prevent entry into sewers and waterways. Consult local authorities regarding requirements.

Methods and Materials for Containment and Clean-up: Contain and collect using an inert absorbent material and place in appropriate containers for disposal. Rinse spill area with water.

Recommended Personal Protective Equipment for Containment and Clean-up:

EYES/FACE	HANDS	RESPIRATORY	SKIN

7. HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with the eyes, skin and clothing. Avoid breathing mists. Wear protective clothing and equipment as described in Section 8. Use with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.

Empty containers retain product residues and can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage: Store in a container in a cool, dry, well-ventilated location away from incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

Glycerin	United States	5 mg/m ³ TWA US OSHA PEL (Respirable fraction); 15 mg/m ³ TWA US OSHA PEL (Total dust) 10 mg/m ³ TWA ACGIH TLV (as mist)
	Germany	50 mg/m ³ TWA DFG MAK (Inhalable aerosol) 100 mg/m ³ STEL DFG MAK (Inhalable aerosol)
	United Kingdom	10 mg/m ³ TWA UK WEL
	European Union	None Established

Biological Exposure Limits: None Established

Appropriate Engineering Controls: Use with adequate local exhaust ventilation to maintain exposures below the occupational exposure limits.

Individual Protection Measures (PPE)

Specific Eye/face Protection: Chemical safety glasses or goggles should be worn if splashing is possible.

Specific Skin Protection: Wear impervious gloves such as natural rubber if needed to avoid skin contact.

Specific Respiratory Protection: None should be needed for normal use. If the exposure limits are exceeded an approved respirator with dust/mist cartridges or supplied air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with applicable regulations and good industrial hygiene practice.

Specific Thermal Hazards: None required.

Recommended Personal Protective Equipment			
EYES/FACE	HANDS	RESPIRATORY	SKIN
Environmental Exposure Controls: Do not allow spills to enter sewers or waterways.			
General Hygiene Considerations and Work Practices: Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling.			
Protective Measures During Repair and Maintenance of Contaminated Equipment: Wear appropriate protective clothing and equipment.			

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Cream colored semi-solid gel	Explosive limits:	LEL: Not applicable UEL: Not applicable
Odor:	Not available	Vapor pressure (mmHg):	Not available
Odor threshold:	Not available	Vapor density:	Not available
pH:	Not available	Relative density:	1.10 @ 25°C (77°F)
Melting/freezing point:	96°C (205°F)	Solubility:	Soluble in water
Initial boiling point and range:	Not available	Partition coefficient: n-octanol/water:	Not available
Flash point:	Not flammable	Auto-ignition temperature:	370°C (698°F)
Evaporation rate:	Slight	Decomposition temperature:	Not determined
Flammability:	Not flammable	Viscosity:	Not applicable
Explosive Properties:	Not determined	Oxidizing Properties:	None
% Volatile by Volume:	Not available		

10. STABILITY AND REACTIVITY

Reactivity: None known.

Chemical Stability: Stable under normal condition.
Possibility of Hazardous Reactions: Hazardous polymerization will not occur.
Conditions to Avoid: None known
Incompatible materials: Avoid oxidizing agents.
Hazardous Decomposition Products: Decomposition may release oxides of carbon, aldehydes and acrolein.

11. TOXICOLOGICAL INFORMATION

<p><u>Potential Health Effects:</u> Eyes: Vapors or liquid may cause mild irritation with redness and tearing. Skin: Prolonged exposure may cause mild irritation. Contact with hot material may cause thermal burns. Ingestion: Accidental ingestion of large amounts may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Excessive exposure to glycerin may cause central nervous system effects and increased blood sugar levels. Inhalation: Inhalation of mists may cause irritation to the nose, throat and upper respiratory tract.</p>
<p><u>Chronic Health Effects:</u> No adverse effects expected under normal use. Repeated excessive exposures to glycerin may cause increased fat levels in the blood and damage to the kidney and liver.</p>
<p><u>Carcinogenicity:</u> Glycerin: No increase in tumor incidence was found in a 2 year oral feeding study with rats at doses of 5 and 10 g/kg. None of the components of this product are listed as carcinogens by OSHA, IARC, NTP, ACGIH or the EU Substances Directive.</p>
<p><u>Mutagenicity:</u> Glycerin: Negative in AMES, in vitro sister chromatid exchange and unscheduled DNA synthesis.</p>
<p><u>Medical Conditions Aggravated by Exposure:</u> Individuals with pre-existing eye or skin disorders may be at increased risk from exposure.</p>
<p><u>Acute Toxicity Data:</u> Glycerin: Oral rabbit LD50- >12,600 mg/kg ; Skin rabbit LD50 - >10,000 mg/kg; Inhalation rat LC50 - >570 mg/m³/1hr</p>
<p><u>Reproductive Toxicity Data:</u> Glycerin: No effects were observed in a 2 generation study at doses of 0.2 mg/kg/day. No developmental effects were observed in rabbits administered up to 1180 mg/kg or in rats or mice administered up to 1310 mg/kg. This product is not expected to cause adverse reproductive effects.</p>
<p><u>Specific Target Organ Toxicity (STOT):</u> <u>Single Exposure:</u> Glycerin: When placed into the eye of a rabbit, glycerin will cause an inflammatory reaction, edema of the cornea and damage of the endothelial cells. <u>Repeated Exposure:</u> Glycerin: In a 13 week sub-chronic inhalation study with rats, glycerin was found to cause mild irritation of mucous membranes. In a 2 year study in rats, no adverse effects were found in animals with 20% glycerin in their feed.</p>

12. ECOLOGICAL INFORMATION

<p><u>Toxicity:</u> Glycerin: 24 hr LC50 Goldfish - >5000 mg/L; 48 hr EC50 Daphnia magna -10,000 mg/L</p>
<p><u>Persistence and Degradability:</u> Glycerin is readily biodegradable (63% after 14 days).</p>

Bio-accumulative Potential: Glycerin is not expected to bioconcentrate in fish and aquatic organisms.
Mobility in Soil: Glycerin: Very high mobility in soil.
Other Adverse Effects: None
Results of PBT/vPvB Assessment: Not applicable.

13. DISPOSAL CONSIDERATIONS

Regulations: Dispose in accordance with all national and local regulations.
Properties (Physical/Chemical) Affecting Disposal: Empty containers retain product residues and can be hazardous. Follow all SDS precautions when handling empty containers.
Waste Treatment Recommendations: Dispose in accordance with national and local regulations.

14. TRANSPORT INFORMATION

UN Number:	ADR/RID: None	IMDG: None	IATA: None	DOT: None
UN proper shipping name:	ADR/RID: Not Regulated IMDG: Not Regulated IATA: Not Regulated DOT: Not Regulated			
Transport hazard class(es):	ADR/RID: None	IMDG: None	IATA: None	DOT: None
Packaging group:	ADR/RID: None	IMDG: None	IATA: None	DOT: None
Environmental hazards:	ADR/RID: No	IMDG Marine pollutant: No	IATA: No	DOT: No
Special precautions for user: Not applicable				

15. REGULATORY INFORMATION

U.S. Federal Regulations

US OSHA Hazard Classification: Not Hazardous

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Toxic Substances Control Act (TSCA): All of the components of this product are listed on the TSCA inventory.

Clean Water Act (CWA): This material is not regulated under the Clean Water Act.

Clean Air Act (CAA): This material is not regulated under the Clean Air Act.

Superfund Amendments and Reauthorization Act (SARA) Title III Information:

SARA Section 311/312 (40 CFR 370) Hazard Categories:

Immediate Hazard:	No	Pressure Hazard:	No
Delayed Hazard:	No	Reactivity Hazard:	No
Fire Hazard:	No		

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 substances known to the state of California to cause cancer and/or reproductive toxicity:

Components	C.A.S. #	WT %
None		

International Regulations

Canadian Workplace Hazardous Materials Information System (WHMIS): Not a controlled product.

Canadian Environmental Protection Act: All of the components in this product are listed on the Domestic Substances List (DSL).

This SDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the SDS contains all of the information required by the CPR.

European Inventory of Existing Chemicals (EINECS): All of the components in this product are listed on the EINECS inventory.

EU REACH: All components requiring registration have been pre-registered.

Australian Inventory of Chemical Substances: All of the components in this product are listed on the AICS for Australia.

China Inventory of Existing Chemicals and Chemical Substances: All of the components in this product are listed on the IECSC for China.

Korean Existing Chemicals List: All of the components in this product are listed on the KECL for Korea.

Philippine Inventory of Chemicals and Chemical Substances: All of the components in this product are listed on the PICCS.

16. OTHER INFORMATION		
<u>HMIS Hazard Rating:</u>		
Health – 1	Flammability – 0	Physical Hazard – 0

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

None

Supersedes: 22 February 2010

Revision Summary: Change in format. Updated Section 3: Composition and Section 8: Exposure controls.

Data Sources: US NLM ChemID Plus and HSDB, Substance SDS for components, IUCLID Dataset EU Chemical Bureau, ESIS, Country websites for occupational exposure limits.