

Roydent Dental Products

Safety Data Sheet

Date Issued: 8-11-14
Document Number: SDS2SealPaste
Date Revised:
Revision Number: 0

1. PRODUCT IDENTIFICATION

Trade Name (as labeled): 2-Seal Paste A and B
Chemical Name/Classification: 4,4'-(1-methylethylidene) bisphenol copolymer zirconium dioxide
Product Identifier (Part/Item Number): 215-227-2
U.N. Number: 3082
U.N. Dangerous Goods Classification: 9
Recommended Use: Preparation of root canal filling material
Restrictions on Use: Do Not Ingest – Harmful if swallowed
Distributed By: Roydent Dental Products
Distributors Address: 608 Rolling Hills Dr., Johnson City, TN 37604
Distributors Telephone Number: 800-992-7767
Emergency Contact Telephone Number: Chemtrec (800) -262-8200
Email address: Chemtrec@chemtrec.com

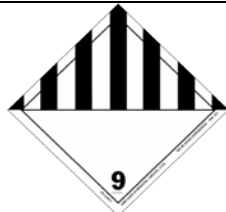
2. HAZARD(S) IDENTIFICATION

Hazard/Danger Classification:

Health	Environmental	Physical
R 36138, R 22, R 36137138	R 51153	R 43

Associated Hazards:

Hazard Statements	Precautionary Statements
Dangerous for the environment; Irritant	Contains epoxy constituents



Include as applicable

EU Classification: This product is not subject to identification regulations under EU Directives and the Ordinance

Roydent Dental Products

on Hazardous Materials (Gennan GejStofjV).

EU Risk (R) and Safety (S) Phrases: R36138, R43, R51153, S24, S26, S28, S37, S57, S60

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. # EC#	IUPAC Name	Substance Classification	WT %
N,N'-Dibenzyl-5-oxanonandiamin- J ,9	113506-22-2		R 22-36/37/38	2,5-10%
1-Aminoadamantane	768-94-5	Amantadine	R 22-36/37/38	2,5-10%
4,4'-(1-methylethylidene)bisphenol copolymer (MW< 700)	212-201-2 25068-38-6	Epoxy Resin	R 36/37/38-43-51/53	25-50%
Zirconium Dioxide	1314-23-4	Zirconia	R36/37/38	10-25%

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. If symptoms persist, consult a doctor.
Skin	Immediately wash with water and soap and rinse thoroughly.
Inhalation	Supply fresh air; consult doctor in case of complaints
Ingestion	Rinse out mouth and then drink plenty of water.
Most important symptoms of exposure	Irritation
Other	If symptoms persist consult doctor.
Note to Physicians (Treatment, Testing, and Monitoring) If symptoms persist consult doctor	

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	CO2,powder or water spray.
Fire Fighting Procedures:	Water spray or alcohol resistant foam.
Specific Hazards Arising from the Chemical:	Formation of toxic gases is possible during heating or in case of fire.

Roydent Dental Products

Precautions for Fire Fighters:	Wear self-contained respiratory protective device
---------------------------------------	---


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

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, PPE and Emergency Procedures: Wear protective equipment. Keep unprotected persons away.

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

Methods and Materials for Containment and Clean-up: Pick up mechanically.

Recommended Personal Protective Equipment for Containment and Clean-up:		
EYES/FACE	SKIN	RESPIRATORY
		

7. HANDLING AND STORAGE

Precautions for Safe Handling: Handling Product is intended for dental use only. Observe normal care for working with chemicals. Ensure good ventilation/exhaustion at the workplace. Information about fire - and explosion protection: No special measures required.

Conditions for Safe Storage: Store only in the original receptacle. Store in cool, dry conditions in well-sealed receptacles.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the work place.

Roydent Dental Products

Biological Exposure Limits: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Appropriate Engineering Controls: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Individual Protection Measures (PPE)

Specific Eye/face Protection: Safety glasses

Specific Skin Protection: Protective work clothing

Specific Respiratory Protection: Not necessary if room is well-ventilated.

Specific Thermal Hazards: Not required

Recommended Personal Protective Equipment

EYES/FACE	SKIN	RESPIRATORY
		

Environmental Exposure Controls: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

General Hygiene Considerations and Work Practices: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Protective Measures During Repair and Maintenance of Contaminated Equipment: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Pasty, White	Explosive limits:	Product does not present an explosion hazard.
Odor:	None	Vapor pressure:	Not Determined
Odor threshold:	Not Determined	Vapor density:	Not Determined
pH:	Not Determined	Relative density:	Not Determined
Melting/freezing point:	undetermined	Solubility:	Insoluble
Initial boiling point and range:	undetermined	Partition coefficient: n-octanol/water:	Not Determined
Flash point:	Not Applicable	Auto-ignition temperature:	Product is not self-igniting.
Evaporation rate:	Not Determined	Decomposition temperature:	Not Determined
Flammability:	Not Applicable	Viscosity:	Not Determined

Roydent Dental Products

Explosive Properties:	Not Applicable	Oxidizing Properties:	None Determined
------------------------------	----------------	------------------------------	-----------------

10. STABILITY AND REACTIVITY

Reactivity: No decomposition if used according to specifications.

Chemical Stability: Stable

Possibility of Hazardous Reactions: No dangerous reactions known

Conditions to Avoid: No decomposition if used according to specifications

Incompatible materials: None known

Hazardous Decomposition Products: Irritant gases/vapors

11. TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure:

Emergency Overview: When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

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:	Irritating effect	Single	Mild	None Known	Eye	NA	NA
Skin:	The un-polymerized product may be irritant to the skin for susceptible persons	Repeated	Mild	None Known	Skin	NA	NA
Inhalation:	Irritant	Repeated	Mild	None Known	Respiratory	NA	NA
Ingestion:	NA	NA	NA	NA	NA	NA	NA
Other:	Sensitizing effect by skin contact is possible by prolonged exposure.	Prolonged	Mild/Moderate	NA	Skin	NA	NA

Medical Conditions Aggravated by Exposure: When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

Carcinogenicity: When used and handled according to specifications, the product does not have any harmful effects to our

Roydent Dental Products

experience and the information provided to us.

12. ECOLOGICAL INFORMATION

Toxicity: Do not allow product to reach ground water, water course or sewage system. Toxic for fish and aquatic organisms

Persistence and Degradability: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Bio-accumulative Potential: Not Determined

Mobility in Soil: Not Determined

Other Adverse Effects: NA

Results of PBT/vPvB Assessment: Not Determined

13. DISPOSAL CONSIDERATIONS

Regulations: Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Properties (Physical/Chemical) Affecting Disposal: Uncleansed packaging

Waste Treatment Recommendations: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

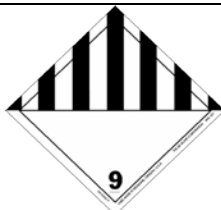
UN Identification Number: 3082

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N. O.S. (4,4'-(1-methylethylidene)bisphenol copolymer(MW< 700))

Transport hazard class(es): 9

Packing Group: III

Special precautions for user: None Determined



Roydent Dental Products

Include as applicable

15. REGULATORY INFORMATION

U.S. Federal Regulations

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): NA

Toxic Substances Control Act (TSCA): NA

Clean Water Act (CWA): NA

Clean Air Act (CAA): NA

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

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

Immediate Hazard:	NA	Pressure Hazard:	NA
Delayed Hazard:	NA	Reactivity Hazard:	NA
Fire Hazard:	NA		

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

Components	C.A.S. #	WT %
NA	NA	NA

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 %
NA	NA	NA

International Regulations

Canadian Environmental Protection Act: NA

Canadian Workplace Hazardous Materials Information System (WHMIS): NA

European Inventory of Existing Chemicals (EINECS): 215-227-2 Zirconium Dioxide 10-25%

16. OTHER INFORMATION

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

R 22 Harmful if swallowed

R 43 May cause sensitization by skin contact

R 36/37/38 Irritating to eyes, respiratory system and skin

R 51/53 Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment

Roydent Dental Products

S 24 Avoid contact with skin.

S 26 In case of contact with eyes rinse immediately with plenty of water and seek medical advice.

S 28 After contact with skin wash immediately with plenty of water.

S 37 Wear suitable gloves.

S 57 Use appropriate container to avoid environmental contamination.

S 60 This material and its container must be disposed of as hazardous waste.

Date of SDS Preparation/Revision: 08/11/14

Data Sources: Supplier