DENTSPLY DeTrey GmbH

1. Product and Company Identification			
Product Name	MSDS Code Number		
Thermaseal Plus Paste A	N/A		
Trade Name & Synonyms	Date of Last Revision		
Thermaseal Plus Paste A	1-13-09		
Chemical Name	Manufacturer		
Epoxy Resin	DENTSPLY DeTrey GmbH		
C.A.S. Number	Address		
N/A	De-Trey-Str. 1		
	D-78467, Konstanz, Germany		
Grades or Minor Variant Identities	Information Telephone Number		
N/A	+49-(0)7531-583-0		
Product Use (for Canada)	Emergency Telephone Number		
Root Canal Filling Material	+49-(0)7531-583-0		

2. Composition of Ingredients						
Hazardous Components	C.A.S. Number	Exposure Limits	%			
Bisphenol-A-(epichlorhydrin) epoxy resin	25068-38-6	N/A	25-50%			
Bis-[4-(-2,3-epoxypropoxy)phenyl]-methane	9003-36-5	N/A	2.5-10%			

		3. Hazard I	dentification		
Emergency Overview	:				
Irritant, dangerous to	the environment.				
Routes of Exposure	Signs and Symptoms	Single, Repeated, or Lifetime Exposure	Severity (Mild, Moderate, Severe)	Acute and Chronic Health Effect(s)	Target Organ(s)
Eye	Irritant	Single	Mild	Acute irritation	Eye
Skin	Can irritate the skin and cause redness, itching and irritation	Single	Mild	Acute irritation May cause sensitization	N/A
Inhalation	Can irritate the lungs and mucous membranes	Single	Mild	Acute irritation	N/A
Ingestion	Can cause nausea, vomiting, diarrhea and difficulty in swallowing.	Single	Mild	Acute irritation	N/A
Other					
N/A	N/A	N/A	N/A	N/A	N/A
Medical Conditions A	ggravated by Exposure				
N/A					
Carcinogenicity (IAR	RC, NTP)				
N/A					
Potential Environmen	tal Effects				
Toxic to aquatic organ	nisms, may cause long-terr	m adverse effects in the a	aquatic environment.		

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	4. First Ai	d Measures	
Routes of Exposure	First Aid Instructions	Immediate Medical Attention	Delayed Effects
Eye	Rinse opened eye for several minutes under running water.	If symptoms persist consult a doctor.	N/A
Skin	Immediately wash with water and soap and rinse thoroughly.	If symptoms persist consult a doctor	N/A
Inhalation	Supply fresh air and call a medical doctor. In case of unconsciousness place patient in stable position, on his side, for transportation to a medical facility.	If symptoms persist consult a doctor	N/A
Ingestion	If ingestion occurs, flush mouth with water and seek medical attention immediately.	If symptoms persist consult a doctor	N/A
Other	N/A	N/A	N/A
Note to Physicians (Treatmo	ent, Testing, and Monitoring)	<u> </u>	

5. Fire and Explosion Data						
Flashpoint Method:	Flam	mable (Explosive) Limits	Auto ignition Temperature		Other	N/A
N/A	in Ai	r	N/A			
	LEL:	N/A UEL: N/A	1 1/1	1		
Flame Propagation or Burnin	g	Properties Contributing to		mability		
Rate (for solids)		Fire Intensity	Class	sification		
N/A		N/A	N/A			
Extinguishing Media			Extinguishing Media to Avoid			
CO2, powder or water spray. Fight large fires with alcohol resistant foam.		nt	N/A			
Protection and Procedures for Firefighters						
Wear self-contained respiratory protective device.						
Unusual Fire and Explosion Hazards						
Formation of toxic gases is possible during heating or in case of fire.						

6. Accidental Release Measures

Disposal must be made according to federal regulations. Do not dispose with household garbage. Do not put in the sewer system.

Spill/Leak Clean-Up Procedures and Equipment

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

Evacuation Procedures

Containment Techniques

- N/A
- Special Instructions

N/A

Reporting Requirements:

Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/surface or ground water.

7. Handling and Storage

Handling Practices and Warnings

Product is intended for dental use only. Ensure good ventilation/exhaustion in the workplace. Prevent formation of aerosols. Observe normal care for working with chemicals.

Storage Practices and Warnings

Store only in original receptacle. Store in cool, dry conditions in well sealed receptacles.

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8. Exposure Control/Personal Protection					
Ventilation	•	Other Engineering Controls			
Use in a well-ventila	ited area.	None			
Routes of Entry:	Personal Protective Equipment (PPE) for 1	Normal Use:	PPE for Emergencies:		
Eye/Face	Tightly sealed goggles.	Tightly sealed goggles.			
Skin	Wear protective gloves. Glove material must be impermeable and resistant to product.		N/A		
Inhalation	Not necessary if room is well-ventilated.		N/A		
General Hygiene Conside	erations and Work Practices				
Keep away from foodstuf Wear protective clothing.	fs, beverages and feed. Wash hands before bre	aks and at end of work	. Wear protective gloves.		
Protective Measures During Repair and Maintenance of Contaminated Equipment					
None					
Other Protective Measures and Equipment					
None					

9. Physical and Chemical Characteristics					
Appearance	ž		Odor		
Pasty, yellow			Weak, epoxy resin		
Normal Physical State:			Boiling Point- undetermined		
X Liquid Gas			Melting Point - undetermined		
Solid (Other)			Freezing Point - undetermined		
Specific Gravity or Density (H ₂ 0=1)	Solubility in Water	pH	•		
Not determined	Not miscible or difficult to mix.	N/2	A		
Vapor Pressure (mm Hg.)	Vapor Density (AIR= 1)	Eva	poration Rate (Butyl Acetate = 1)		
N/A	N/A	N/2	A		
Other		I			
N/A					

10. Stability and Reactivity Data			
Incompatibility (Materia	ls to Avoid)	•	
No decomposition i	f used according to specifications.		
Hazardous Products Prod None	duced During Decomposition		
Hazardous Polymerization	on?	Conditions to Avoid	
N/A May Occur	N/A May Not Occur	N/A	
Stability?		Conditions to Avoid	
N/A Stable	N/A <u>Unstable</u>	N/A	

11. Toxicological Information

Toxicity Data, Epidemiology Studies, Carcinogenicity, Neurological Effects, Genetic Effects, Reproductive Effects, or Structure Activity Data Acute Toxicity: N/A

LD/LC50 values relevant for classification:

25068-38-6 reaction product: bisphenol-A-(epichlorhydrin) epoxy resin (number average molecular weight=700)

Oral: LD 50, >5000 mg/kg (rat) Dermal: LD 50, >2000mg/kg (rat) 9003-36-5 Bis-[4- Oral LD 50> 5000 mg/kg (rat)

Primary irritant effect: Skin: Irritant to skin and mucous membranes Eyes: Irritating effect Sensitization: Possible through skin contact

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12. Ecological Information

Toxicity, Environmental Fate, Physical/Chemical Data, or Other Data Supporting Environmental Hazard Statements

Toxic for fish. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous to fish and plankton in water bodies. Toxic to aquatic organisms.

13. Disposal Considerations

Regulations

Disposal must be made according to federal regulations. Do not dispose with household garbage. Do not put in the sewer system Properties (Physical/Chemical) Affecting Disposal

N/A

14. Transport Information								
Regulated for shipping?	Proper Shipping Name		Packing Group					
X Yes 🗌 No	Environmentally Hazardous Substance, Liq N.O. (reaction product)	uid,	III					
Do changes in quantity, packaging, or shipment method change product classification?			Class	Identification Number				
No		9		3082				
Other								
N/A								

15. Regulatory Information

Federal Regulations Water hazard class 2; hazardous for water.

International Regulations

This product has been classified and marked in accordance with the Ordinance on Hazardous Materials. Contains epoxy constituents. See information supplied by manufacturer. Product is an irritant and hazardous to the environment.

Other

N/A

16. Other Information

This information is based on our present knowledge; however, this shall not constitute a guarantee for specific product features. The attached safety data sheet covers the dangers and measures to be taken when large quantities of material are released, for example due to accidents during transport or storage by the dealer.

For quantities of material typically used in clinical practice, information necessary for safe use and storage of the product is given in the Directions For Use.

Contact: Hotline for urgent technical support: +49-7531-583-0