

Safety Data Sheet

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1. PRODUCT IDENTIFICATION

Trade Name (as labeled): DENTSPLY AH 26 Liquid Resin
Chemical Name/Classification: BISPHENOL A/ EPICHLOROHYDRIN RESIN
Product Identifier (Part/Item Number): 667002
U.N. Number: 3082
U.N. Dangerous Goods Classification: 9
Recommended Use: Root canal filling material
Restrictions on Use: For use by Dental Professionals only
Distributed by: DENTSPLY Maillefer
Distributors Address: 608 Rolling Hills Dr., Johnson City, TN 37604
Distributor Telephone Number: 1-800-992-7767 (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
R36/38, R43, S23, S25, S26, S37, S39, S46	R51/53, S29, S35, S40, S56, S57, S61	NA

Associated Hazards:

Hazard Statements	Precautionary Statements
H315, H320, H411	P260, P273, P332+313

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EU Classification: Xi, N

EU Risk (R) and Safety (S) Phrases: R36/38, R43, R51/53; S23, S25, S26, S37, S39, S46, S29, S35, S40, S56, S57, S61

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 %
BISPHENOL A/ EPICHLOROHYDRIN RESIN	25068-38-6 500-033-5	bisphenol A/ epichlorohydrin resin	Xi; R36/38, R4- N; R51-53	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	Wash out immediately with fresh running water. Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids. Seek medical attention without delay; if pain persists or recurs seek medical attention. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin	Immediately remove all contaminated clothing, including footwear. Flush skin and hair with running water (and soap if available). Seek medical attention in event of irritation.
Inhalation	If dust is inhaled, remove from contaminated area. Encourage patient to blow nose to ensure clear breathing passages. Ask patient to rinse mouth with water but to not drink water. Seek immediate medical attention.
Ingestion	Immediately give a glass of water. First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.
Most important symptoms of exposure	Not Specified
Other	NA
Note to Physicians (Treatment, Testing, and Monitoring) Treat symptomatically	





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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Foam, Dry chemical powder, BCF (where regulations permit), Carbon dioxide.
Fire Fighting Procedures:	Alert Fire Brigade and tell them location and nature of hazard. Wear full body protective clothing with breathing apparatus. Prevent, by any means available, spillage from entering drains or water course. Use water delivered as a fine spray to control fire and cool adjacent area
Specific Hazards Arising from the Chemical:	Combustible. Slight fire hazard when exposed to heat or flame. Heating may cause expansion or decomposition leading to violent rupture of containers. On combustion, may emit toxic fumes of carbon monoxide (CO).
Precautions for Fire Fighters:	Avoid contamination with oxidizing agents i.e. nitrates, oxidizing acids, chlorine bleaches, pool chlorine etc. as ignition may result

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

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, PPE and Emergency Procedures: Not Specified			
Environmental Precautions: Clean up all spills immediately. Avoid breathing vapors and contact with skin and eyes. Control personal contact with the substance, by using protective equipment.			
Methods and Materials for Containment and Clean-up: Moderate hazard. Clear area of personnel and move upwind. Alert Fire Brigade and tell them location and nature of hazard.			
Recommended Personal Protective Equipment for Containment and Clean-up:			
EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

7. HANDLING AND STORAGE

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Precautions for Safe Handling: Avoid all personal contact, including inhalation; Wear protective clothing when risk of exposure occurs; Use in a well-ventilated area; Prevent concentration in hollows and sumps.

Conditions for Safe Storage: Store in original containers; Keep containers securely sealed; Store in a cool, dry, well-ventilated area; Store away from incompatible materials and foodstuff containers. Metal can or drum Packaging as recommended by manufacturer. Check all containers are clearly labelled and free from leaks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: Not Available

Biological Exposure Limits: Not Specified

Appropriate Engineering Controls:

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment.

Individual Protection Measures (PPE)

Specific Eye/face Protection: Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task.





Specific Skin Protection: When handling liquid-grade epoxy resins wear chemically protective gloves (e.g. nitrile or nitrile-butadiene rubber), boots and aprons. **DO NOT** use cotton or leather (which absorb and concentrate the resin), polyvinyl chloride, rubber or polyethylene gloves (which absorb the resin). **DO NOT** use barrier creams containing emulsified fats and oils as these may absorb the resin; silicone-based barrier creams should be reviewed prior to use.

NOTE: The material may produce skin sensitization in predisposed individuals.

Specific Respiratory Protection: Not Specified

Specific Thermal Hazards: Not Available

Recommended Personal Protective Equipment

EYES/FACE	SKIN	RESPIRATORY	THERMAL
			

Environmental Exposure Controls: Not Specified

General Hygiene Considerations and Work Practices: Not Specified

Protective Measures During Repair and Maintenance of Contaminated Equipment: Not Specified

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light yellow liquid with a characteristic odor; does not mix with water.	Explosive limits:	Not Available
Odor:	Not Available	Vapor pressure:	Not Available
Odor threshold:	Not Available	Vapor density:	Not Available
pH:	Not Applicable	Relative density:	1.15-1.20
Melting/freezing point:	Not Available	Solubility:	Immiscible
Initial boiling point and range:	200 °C	Partition coefficient: n-octanol/water:	Not Available
Flash point:	200 °C	Auto-ignition temperature:	Not Available
Evaporation rate:	Not Available	Decomposition temperature:	>200
Flammability:	Not Applicable	Viscosity:	Not Available
Explosive Properties:	Not Available	Oxidizing Properties:	Not Available

10. STABILITY AND REACTIVITY

Reactivity: See section 7
Chemical Stability: Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerization will not occur.
Possibility of Hazardous Reactions: See section 7
Conditions to Avoid: See section 7
Incompatible materials: See section 7
Hazardous Decomposition Products: See section 5

11. TOXICOLOGICAL INFORMATION

Signs and Symptoms of Overexposure: See Below
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Emergency Overview: Seek Medical Attention							
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:	May cause eye irritation	May cause inflammation characterized by a temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration	Yes	NA	Eye	NA	NA
Skin:	May damage the health of the individual; systemic effects may result following absorption	NA	NA	NA	Skin	NA	NA
Inhalation:	Not normally a hazard due to non-volatile nature of product	NA	NA	NA	Air ways	NA	NA
Ingestion:	NOT classified as "harmful by ingestion"	NA	NA	NA	NA	NA	NA
Other:	NA	NA	NA	NA	NA	NA	NA
Medical Conditions Aggravated by Exposure: Pulmonary sensitization, resulting in hyperactive airway dysfunction and pulmonary allergy may be accompanied by fatigue, malaise and aching. Significant symptoms of exposure may persist for extended periods, even after exposure ceases. Symptoms can be activated by a variety of nonspecific environmental stimuli such as automobile exhaust, perfumes and passive smoking.							
Carcinogenicity: Not Known to be Carcinogenic							

12. ECOLOGICAL INFORMATION

Toxicity: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. DO NOT discharge into sewer or waterways.
Persistence and Degradability: Not Available
Bio-accumulative Potential: Not Available

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Mobility in Soil: Not Available

Other Adverse Effects: Not Available

Results of PBT/vPvB Assessment: Not Available

13. DISPOSAL CONSIDERATIONS

Regulations: Dispose in accordance with current local, state and federal regulations. Keep spills out of sewers and open bodies of water

Properties (Physical/Chemical) Affecting Disposal: None Specified

Waste Treatment Recommendations: Consult manufacturer for recycling options and recycle where possible. Consult State Land Waste Management Authority for disposal. Incinerate residue at an approved site. Recycle containers if possible, or dispose of in an authorized landfill.

14. TRANSPORT INFORMATION

UN Identification Number: 3082

UN Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bisphenol A/ epichlorohydrin resin)

Transport hazard class(es): 9

Packing Group: III

Special precautions for user: Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082 are not subject to this Code when transported by road or rail in; (a) packaging; b) IBCs; or (c) any other receptacle not exceeding 500 kg (L).



15. REGULATORY INFORMATION

U.S. Federal Regulations

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): Not Specified

Toxic Substances Control Act (TSCA): Not Specified

Clean Water Act (CWA): Not Specified

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Clean Air Act (CAA): Not Specified

Superfund Amendments and Reauthorization Act (SARA) Title III Information: Not Specified

SARA Section 311/312 (40 CFR 370) Hazard Categories: Not Specified

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): 500-033-5

16. OTHER INFORMATION

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

R36/38 Irritating to eyes and skin.

R51/53 Toxic to aquatic organisms may cause long-term adverse effects in the aquatic environment.

R43 May cause sensitization by skin contact.

S23 Do not breathe gas/fumes/vapor/spray.

S24 Avoid contact with skin.

S25 Avoid contact with eyes.

S26 In case of contact with eyes, rinse with plenty of water and contact Doctor or Poisons Information Centre.

S29 Do not empty into drains.

S35 This material and its container must be disposed of in a safe way.

S37 Wear suitable gloves.

S39 Wear eye/face protection.

S40 To clean the floor and all objects contaminated by this material, use water and detergent.

S46 If swallowed, seek medical advice immediately and show this container or label.

S56 Dispose of this material and its container at hazardous or special waste collection point.

S57 Use appropriate container to avoid environmental contamination.

S61 Avoid release to the environment. Refer to special instructions/Safety data

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H315 Causes skin irritation
H320 Causes eye irritation
H411 Toxic to aquatic life with long lasting effects
P260 Do not breathe dust/fume/gas/mist/vapors/spray
P273 Avoid release to the environment
P332+313 If skin irritation occurs: Get medical advice/attention

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Data Sources: Manufacturer