# AH 26 Resin

## Dentsply (Australia) Pty Ltd

Chemwatch Hazard Alert Code: 2

Chemwatch: 4987-40 Version No: 6.1.1.1 Safety Data Sheet according to WHS and ADG requirements Issue Date: 05/06/2015 Print Date: 31/07/2017 S.GHS.AUS.EN

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

#### **Product Identifier**

Product name	AH 26 Resin	
Synonyms	Not Available	
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bisphenol A/ diglycidyl ether polymer, high molecular weight)	
Other means of identification	Not Available	
Relevant identified uses of the substance or mixture and uses advised against		

Relevant identified uses SDS are intended for use in the workplace. For domestic-use products, refer to consumer labels. Root canal filling material.

# Details of the supplier of the safety data sheet

Registered company name	Dentsply (Australia) Pty Ltd	
Address	1-21 Gilby Road Mount Waverley VIC 3149 Australia	
Telephone	00 55 29 29	
Fax	1300 55 31 31	
Website	www.dentsply.com.au	
Email	clientservices@dentsplysirona.com	

#### Emergency telephone number

Association / Organisation	Not Available
Emergency telephone numbers	1300 55 29 29
Other emergency telephone numbers	Not Available

## **SECTION 2 HAZARDS IDENTIFICATION**

#### Classification of the substance or mixture

#### HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code.

#### CHEMWATCH HAZARD RATINGS

	Min	Max	
Flammability	1 📃	1	
Toxicity	0		0 = Minimum
Body Contact	2		1 = Low 2 = Moderate
Reactivity	1		3 = High
Chronic	2		4 = Extreme

	Poisons Schedule	Not Applicable
	Classification <sup>[1]</sup>	Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Skin Sensitizer Category 1, Acute Aquatic Hazard Category 2, Chronic Aquatic Hazard Category 2
	Legend:	1. Classified by Chemwatch; 2. Classification drawn from HSIS ; 3. Classification drawn from EC Directive 1272/2008 - Annex VI
L	abel elements	
	Hazard pictogram(s)	

SIGNAL WORD WARNING

## Hazard statement(s)

H315	Causes skin irritation.
H319	Causes serious eye irritation.

H317	May cause an allergic skin reaction.	
H411	Toxic to aquatic life with long lasting effects.	
Precautionary statement(s) Prevention		
P280	Wear protective gloves/protective clothing/eye protection/face protection.	
P261	P261 Avoid breathing mist/vapours/spray.	
P273	Avoid release to the environment.	
P272	Contaminated work clothing should not be allowed out of the workplace.	

#### Precautionary statement(s) Response

P362	Take off contaminated clothing and wash before reuse.	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.	
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.	

#### Precautionary statement(s) Storage

#### Not Applicable

Precautionary statement(s) Disposal

P501 Dispose of contents/container in accordance with local regulations.	
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## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

#### Substances

See section below for composition of Mixtures

## Mixtures

CAS No	%[weight]	Name
25068-38-6	50-100	bisphenol A/ diglycidyl ether polymer, high molecular weight

#### **SECTION 4 FIRST AID MEASURES**

#### Description of first aid measures

Eye Contact	<ul> <li>If this product comes in contact with the eyes:</li> <li>Wash out immediately with fresh running water.</li> <li>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.</li> <li>Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul>
Skin Contact	<ul> <li>If skin contact occurs:</li> <li>Immediately remove all contaminated clothing, including footwear.</li> <li>Flush skin and hair with running water (and soap if available).</li> <li>Seek medical attention in event of irritation.</li> </ul>
Inhalation	<ul> <li>If fumes, aerosols or combustion products are inhaled remove from contaminated area.</li> <li>Other measures are usually unnecessary.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> </ul>

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5 FIREFIGHTING MEASURES**

### Extinguishing media

- Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.

#### Special hazards arising from the substrate or mixture

Fire Incompatibility	Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may result		
Advice for firefighters			
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> </ul>		

Fire/Explosion Hazard	<ul> <li>Combustible.</li> <li>Slight fire hazard when exposed to heat or flame.</li> <li>Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>Combustion products include:         <ul> <li>,</li> <li>carbon dioxide (CO2)</li> <li>,</li> <li>aldehydes</li> <li>,</li> <li>other pyrolysis products typical of burning organic material.</li> </ul> </li> </ul>
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## SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

See section 8

### **Environmental precautions**

See section 12

## Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Environmental hazard - contain spillage.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> </ul>
Major Spills	<ul> <li>Environmental hazard - contain spillage.</li> <li>Moderate hazard.</li> <li>Clear area of personnel and move upwind.</li> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear breathing apparatus plus protective gloves.</li> </ul>

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 HANDLING AND STORAGE

### Precautions for safe handling

	-
Safe handling	<ul> <li>Avoid all personal contact, including inhalation.</li> <li>Wear protective clothing when risk of exposure occurs.</li> <li>Use in a well-ventilated area.</li> <li>Prevent concentration in hollows and sumps.</li> <li>DO NOT allow clothing wet with material to stay in contact with skin</li> </ul>
Other information	<ul> <li>Store in original containers.</li> <li>Keep containers securely sealed.</li> <li>No smoking, naked lights or ignition sources.</li> <li>Store in a cool, dry, well-ventilated area.</li> <li>Store out of direct sunlight</li> </ul>
Conditions for safe storag	ge, including any incompatibilities
	► Metal can or drum

Suitable container	<ul> <li>Packaging as recommended by manufacturer.</li> <li>Check all containers are clearly labelled and free from leaks.</li> </ul>
Storage incompatibility	Avoid reaction with oxidising agents

### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

### **Control parameters**

OCCUPATIONAL EXPOSURE LIMIT	S (OEL)
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## INGREDIENT DATA

Not Available

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Ingredient	Material name		TEEL-1	TEEL-2	TEEL-3
bisphenol A/ diglycidyl ether polymer, high molecular weight	Epoxy resin includes EPON 1001, 1007, 820, ERL-2795		90 mg/m3	990 mg/m3	5,900 mg/m3
Ingredient	Original IDLH	Revis	sed IDLH		
bisphenol A/ diglycidyl ether polymer, high molecular weight	Not Available	Not A	vailable		

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.
Personal protection	
Eye and face protection	<ul> <li>Safety glasses with side shields.</li> <li>Chemical goggles.</li> <li>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.</li> </ul>
Skin protection	See Hand protection below
Hands/feet protection	<ul> <li>Wear chemical protective gloves, e.g. PVC.</li> <li>Wear safety footwear or safety gumboots, e.g. Rubber</li> </ul>
Body protection	See Other protection below
Other protection	<ul> <li>Overalls.</li> <li>P.V.C. apron.</li> <li>Barrier cream.</li> </ul>
Thermal hazards	Not Available

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Appearance** Light yellow liquid with a characteristic odour; does not mix with water.

Physical state	Liquid	Relative density (Water = 1)	1.17
Odour	Not Available	Partition coefficient n-octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature	>200
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available
Initial boiling point and boiling range (°C)	>200	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	>200	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Not Applicable	Oxidising properties	Not Available
Upper Explosive Limit (%)	Not Available	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	Not Available	Volatile Component (%vol)	Not Available
Vapour pressure (kPa)	2	Gas group	Not Available
Solubility in water (g/L)	Immiscible	pH as a solution (1%)	8
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available

## SECTION 10 STABILITY AND REACTIVITY

Reactivity	See section 7
Chemical stability	<ul> <li>Unstable in the presence of incompatible materials.</li> <li>Product is considered stable.</li> <li>Hazardous polymerisation will not occur.</li> </ul>
Possibility of hazardous reactions	See section 7
Conditions to avoid	See section 7
Incompatible materials	See section 7
Hazardous decomposition products	See section 5

## SECTION 11 TOXICOLOGICAL INFORMATION

Information on toxicological effects

Inhaled

The material is not thought to produce adverse health effects or irritation of the respiratory tract (as classified by EC Directives using animal models). Nevertheless, good hygiene practice requires that exposure be kept to a minimum and that suitable control measures be used in an occupational setting. Not normally a hazard due to non-volatile nature of product

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Ingestion	The material has <b>NOT</b> been classified by EC Directives or oth animal or human evidence.	er classification systems as "harmf	ul by ingestion". This is because of the lack of corroborating	
Skin Contact	The material may cause moderate inflammation of the skin eith dermatitis which is characterised by redness, swelling and bli Open cuts, abraded or irritated skin should not be exposed to t Entry into the blood-stream, through, for example, cuts, abrasic of the material and ensure that any external damage is suitably	stering. his material ons or lesions, may produce system		
Eye	This material can cause eye irritation and damage in some persons.			
Chronic	Skin contact with the material is more likely to cause a sensitis Sensitisation may result in allergic dermatitis responses inclu			
	TOXICITY	IRRITATION		
AH 26 Resin	Not Available	Not Available		
	ΤΟΧΙΟΙΤΥ	IRRITATION		
bisphenol A/ diglycidyl ether polymer, high molecular	dermal (rat) LD50: >1200 mg/kg <sup>[2]</sup>	Eye (rabbit): 10	0 mg - mild	
weight	Oral (rat) LD50: >1000 mg/kg <sup>[2]</sup>			
Legend:	<ol> <li>Value obtained from Europe ECHA Registered Substances extracted from RTECS - Register of Toxic Effect of chemical S</li> </ol>		rom manufacturer's SDS. Unless otherwise specified data	
BISPHENOL A/ DIGLYCIDYL ETHER POLYMER, HIGH MOLECULAR WEIGHT	Contact allergies quickly manifest themselves as contact ecze a cell-mediated (T lymphocytes) immune reaction of the delayer reactions. The chemical structure of hydroxylated diphenylalkanes or bis endocrine disruptors that mimic oestrogens is widely used in i Bisphenol A (BPA) and some related compounds exhibit oestr activity. Several derivatives of BPA exhibited significant thyroid hormone-dependent manner. However, BPA and several other The material may produce severe irritation to the eye causing p conjunctivitis. The material may cause skin irritation after prolonged or repea scaling and thickening of the skin. Animal testing over 13 weeks showed bisphenol A diglycidyl ef Reproductive and Developmental Toxicity: Animal testing show effects. Cancer-causing potential: It has been concluded that bisphen Genetic toxicity: Laboratory tests on genetic toxicity of BADGE for RTECS No: SL 6475000: (liquid grade) Equivocal tumouri	ed type. Other allergic skin reactions phenols consists of two phenolic rin ndustry, particularly in plastics ogenic activity in human breast can hormonal activity towards rat pituita derivatives did not show such activity pronounced inflammation. Repeated ted exposure and may produce on other (BADGE) caused mild to model ed BADGE given over several mont of A diglycidyl ether cannot be class have so far been negative.	e, e.g. contact urticaria, involve antibody-mediated immune ngs joined together through a bridging carbon. This class of cer cell line MCF-7, but there were remarkable differences in ry cell line GH3, which releases growth hormone in a thyroid of prolonged exposure to irritants may produce contact skin redness, swelling, the production of vesicles, rate, chronic, inflammation of the skin. hs caused reduction in body weight but had no reproductive iffed with respect to its cancer-causing potential in humans.	
Acute Toxicity	$\odot$	Carcinogenicity	$\otimes$	
Skin Irritation/Corrosion	¥	Reproductivity	0	
Serious Eye Damage/Irritation	*	STOT - Single Exposure	0	
Respiratory or Skin sensitisation	*	STOT - Repeated Exposure	0	
Mutagenicity	0	Aspiration Hazard	0	
			– Data available but does not fill the criteria for classification	

🚫 – Data Not Available to make classification

## SECTION 12 ECOLOGICAL INFORMATION

#### Toxicity

AH 26 Resin	ENDPOINT Not Available	TEST DURATION (HR) Not Available	SPECIES Not Available	VALUE         SOURCE           Not         Not           Available         Available
	ENDPOINT	TEST DURATION (HR)	SPECIES	VALUE SOURCE
bisphenol A/ diglycidyl ether	LC50	96	Fish	1.2mg/L 2
polymer, high molecular weight	EC50	72	Algae or other aquatic plants	9.4mg/L 2
5	NOEC	72	Algae or other aquatic plants	2.4mg/L 2

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **DO NOT** discharge into sewer or waterways.

#### Ingredient Persistence: Water/Soil Persistence: Air No Data available for all ingredients No Data available for all ingredients **Bioaccumulative potential** Ingredient Bioaccumulation No Data available for all ingredients

## Mobility in soil

Ingredient	Mobility
	No Data available for all ingredients

#### SECTION 13 DISPOSAL CONSIDERATIONS

#### Waste treatment methods ► Recycle wherever possible or consult manufacturer for recycling options. Product / Packaging Consult State Land Waste Authority for disposal. disposal Bury or incinerate residue at an approved site. • Recycle containers if possible, or dispose of in an authorised landfill.

## SECTION 14 TRANSPORT INFORMATION

### Labels Required

Marine Pollutant	
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#### Land transport (ADG)

UN number	3082	
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bisphenol A/ diglycidyl ether polymer, high molecular weight)	
Transport hazard class(es)	Class 9 Subrisk Not Applicable	
Packing group	II	
Environmental hazard	Environmentally hazardous	
Special precautions for user	Special provisions274 331 335 375 AU01Limited quantity5 L	

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) packagings;(b) IBCs; or

(c) any other receptacle not exceeding 500 kg(L).

- Australian Special Provisions (SP AU01) - ADG Code 7th Ed.

## Air transport (ICAO-IATA / DGR)

UN number	3082		
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. * (contains bisphenol A/ diglycidyl ether polymer, high molecular weight)		
Transport hazard class(es)	ICAO/IATA Class 9 ICAO / IATA Subrisk Not Applicable ERG Code 9L		
Packing group	ll		
Environmental hazard Environmentally hazardous			
Special precautions for user	Special provisions Cargo Only Packing Instructions Cargo Only Maximum Qty / Pack	A97 A158 A197 964 450 L	

Continued...

	Passenger and Cargo Packing Instructions	964
	Passenger and Cargo Maximum Qty / Pack	450 L
	Passenger and Cargo Limited Quantity Packing Instructions	Y964
	Passenger and Cargo Limited Maximum Qty / Pack	30 kg G

#### Sea transport (IMDG-Code / GGVSee)

UN number	3082		
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bisphenol A/ diglycidyl ether polymer, high molecular weight)		
Transport hazard class(es)	IMDG Class     9       IMDG Subrisk     Not Applicable		
Packing group	III Contraction of the second s		
Environmental hazard	Marine Pollutant		
Special precautions for user	EMS NumberF-A , S-FSpecial provisions274 335 969Limited Quantities5 L		

## Transport in bulk according to Annex II of MARPOL and the IBC code

Not Applicable

#### SECTION 15 REGULATORY INFORMATION

#### Safety, health and environmental regulations / legislation specific for the substance or mixture

## BISPHENOL A/ DIGLYCIDYL ETHER POLYMER, HIGH MOLECULAR WEIGHT (25068-38-6) IS FOUND ON THE FOLLOWING REGULATORY LISTS

Australia Hazardous Substances Information System - Consolidated Lists Australia Inventory of Chemical Substances (AICS)

National Inventory	Status
Australia - AICS	Y
Canada - DSL	Υ
Canada - NDSL	N (bisphenol A/ diglycidyl ether polymer, high molecular weight)
China - IECSC	Y
Europe - EINEC / ELINCS / NLP	Y
Japan - ENCS	N (bisphenol A/ diglycidyl ether polymer, high molecular weight)
Korea - KECI	Y
New Zealand - NZIoC	Υ
Philippines - PICCS	Y
USA - TSCA	Y
Legend:	Y = All ingredients are on the inventory N = Not determined or one or more ingredients are not on the inventory and are not exempt from listing(see specific ingredients in brackets)

#### **SECTION 16 OTHER INFORMATION**

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

#### **Definitions and abbreviations**

PC – TWA: Permissible Concentration-Time Weighted Average PC – STEL: Permissible Concentration-Short Term Exposure Limit IARC: International Agency for Research on Cancer ACGIH: American Conference of Governmental Industrial Hygienists STEL: Short Term Exposure Limit TEEL: Temporary Emergency Exposure Limit, IDLH: Immediately Dangerous to Life or Health Concentrations OSF: Odour Safety Factor NOAEL: No Observed Adverse Effect Level LOAEL: Lowest Observed Adverse Effect Level TLV: Threshold Limit Value LOD: Limit of Detection OTV: Odour Threshold Value BCF: BioConcentration Factors BEI: Biological Exposure Index

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