

Safety Data Sheet

according to WHS Regulations

Print date: 12.03.2024

Revision date: 12.03.2024

1 Identification

Product Name: Attach 2 Spray

Other Means of Identification: Mixture

Recommended Use of the Chemical and Restriction on Use: Alginate tray adhesive

Details of Manufacturer or Importer:

Australian Dental Manufacturing
25 Billabong Street
Kenmore Hills, QLD, 4069

Phone Number: 07 3878 1901

Emergency telephone number: National Poisons Information Centre: 13 11 26

2 Hazard(s) Identification

Hazardous Nature:

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) and Safe Work Australia criteria.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition).



Flame

Aerosol 1

H222-H229 Extremely flammable aerosol. Pressurized container: may burst if heated.



Health hazard

Germ Cell Mutagenicity 1B H340

May cause genetic defects.

Carcinogenicity 1A H350

May cause cancer.

Toxic To Reproduction 2 H361f

Suspected of damaging fertility.

Aspiration Hazard 1 H304

May be fatal if swallowed and enters airways.



Environment

Aquatic Chronic 1

H410

Very toxic to aquatic life with long lasting effects.



Skin Corrosion/Irritation 2 H315

Causes skin irritation.

STOT SE 3 H336

May cause drowsiness or dizziness.

Aquatic Acute 2

H401

Toxic to aquatic life.

Signal Word Danger

Hazard Statements

H222-H229 Extremely flammable aerosol. Pressurized container: may burst if heated.

H315 Causes skin irritation.

H340 May cause genetic defects.

H350 May cause cancer.

H361f Suspected of damaging fertility.

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H336 May cause drowsiness or dizziness.
 H304 May be fatal if swallowed and enters airways.
 H401 Toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P211 Do not spray on an open flame or other ignition source.
 P251 Pressurized container: Do not pierce or burn, even after use.
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P264 Wash thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 P321 Specific treatment (see on this label).
 P331 Do NOT induce vomiting.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P308+P313 IF exposed or concerned: Get medical advice/attention.
 P312 Call a POISON CENTER/doctor if you feel unwell.
 P362+P364 Take off contaminated clothing and wash it before reuse.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P391 Collect spillage.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

3 Composition and Information on Ingredients

Chemical Characterization: Mixtures**Description:** Mixture of substances listed below with nonhazardous additions.**Hazardous Components:**

CAS: 74-98-6	Propane	30-50%
	⚠ Flam. Gas 1A, H220; ⚠ Press. Gas L, H280	
CAS: 106-97-8	Butane	30-50%
	⚠ Flam. Gas 1A, H220; ⚠ Press. Gas C, H280	
CAS: 64742-49-0	Naphtha (petroleum), hydrotreated light	18-30%
	⚠ Germ Cell Mutagenicity 1B, H340; Carcinogenicity 1A, H350; Aspiration Hazard 1, H304	
CAS: 142-82-5	Heptane	10-30%
	⚠ Flammable Liquids 2, H225; ⚠ Aspiration Hazard 1, H304; ⚠ Aquatic Chronic 1, H410; ⚠ Skin Corrosion/Irritation 2, H315; STOT SE 3, H336	
CAS: 96-37-7	methylcyclopentane	<5%
	⚠ Flammable Liquids 2, H225	
CAS: 109-66-0	Pentane	<5%
	⚠ Flammable Liquids 2, H225; ⚠ Aspiration Hazard 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336	

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CAS: 110-54-3	Hexane	<5%
	 Flammable Liquids 2, H225;  Toxic To Reproduction 2, H361f; STOT RE 2, H373; Aspiration Hazard 1, H304;  Aquatic Chronic 2, H411;  Skin Corrosion/Irritation 2, H315; STOT SE 3, H336	
CAS: 110-82-7	Cyclohexane	<5%
	 Flammable Liquids 2, H225;  Aspiration Hazard 1, H304;  Aquatic Acute 1, H400; Aquatic Chronic 1, H410;  Skin Corrosion/Irritation 2, H315; STOT SE 3, H336	

4 First Aid Measures

Inhalation: If inhaled, remove to fresh air. Seek medical attention if breathing problems develop.

Skin Contact:

In case of skin contact, immediately remove contaminated clothing and wash affected areas with water and soap. Seek medical attention if irritation persists.

Eye Contact:

In case of eye contact, rinse with water for several minutes, including under eyelids. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes. Seek medical attention if irritation persists.

Ingestion:

If swallowed, do not induce vomiting. Immediately rinse mouth with water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Symptoms Caused by Exposure:

Inhalation: May cause drowsiness or dizziness. May cause irritation of respiratory tract, headaches, drowsiness, dizziness, nausea and other central nervous system effects.

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye irritation

Ingestion: May be fatal if swallowed and enters airways. May cause gastrointestinal irritation, nausea, weakness, dizziness and unconsciousness.

5 Fire Fighting Measures

Suitable Extinguishing Media:

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Do not use a solid water stream.

Specific Hazards Arising from the Chemical:

Hazardous combustion products include oxides of carbon and hydrocarbons.

Product is extremely flammable. Vapours may travel considerable distances to a source of ignition where they can ignite, flashback, or explode.

Pressurised container: may burst if heated. Containers close to fire should be removed if safe to do so. Use water spray to cool fire exposed containers.

Prevent run-off from fire fighting entering drains or water courses.

Special Protective Equipment and Precautions for Fire Fighters:

When fighting a major fire wear self-contained breathing apparatus and protective equipment.

6 Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:

Wear approved respiratory protection, chemical resistant gloves, protective clothing and safety boots.

Evacuate all non-essential personnel from affected area. Do not breathe vapours. Ensure adequate ventilation.

Extinguish all sources of ignition. Avoid sparks and open flames. No smoking.

Environmental Precautions:

In the event of a major spill, prevent spillage from entering drains or water courses.

Inform respective authorities in case of seepage into water course or sewage system.

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Methods and Materials for Containment and Cleaning Up:

Stop leak if safe to do so, sealing the leaking container. Collect the leaking containers and place in a well-ventilated area, preferable an operating exhaust hood. Collect as much spilled material as possible using only non-sparking tools.

7 Handling and Storage

Precautions for Safe Handling:

Use of safe work practices are recommended to avoid eye or skin contact and inhalation of vapours. Use only outdoors or in a well-ventilated area.

Take precautionary measures against static discharge. Food, beverages and tobacco products should not be stored or consumed where this material is in use. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. Provide eyewash fountains and safety showers in close proximity to points of potential exposure.

Conditions for Safe Storage:

Store in a cool, dry and well ventilated area. Keep in original container tightly closed when not in use. Protect from direct sunlight, heat, sparks, open flames and other sources of ignition. Store at temperatures between 5 °C and 25 °C. Protect containers from physical damage. Check regularly for leaks or spills. Do not pierce or burn containers, even after use. Keep away from strong oxidising agents, strong acids and strong bases.

8 Exposure Controls and Personal Protection

Exposure Standards:**CAS: 74-98-6 Propane**

WES Asphyxiant

CAS: 106-97-8 ButaneWES TWA: 1900 mg/m³, 800 ppm**CAS: 142-82-5 Heptane**WES STEL: 2050 mg/m³, 500 ppm
TWA: 1640 mg/m³, 400 ppm**CAS: 109-66-0 Pentane**WES STEL: 2210 mg/m³, 750 ppm
TWA: 1770 mg/m³, 600 ppm**CAS: 110-54-3 Hexane**WES TWA: 72 mg/m³, 20 ppm**CAS: 110-82-7 Cyclohexane**WES STEL: 1050 mg/m³, 300 ppm
TWA: 350 mg/m³, 100 ppm**Engineering Controls:**

Ensure adequate ventilation of the working area, keeping airborne concentrations below occupational exposure standards.

Respiratory Protection:

Use an approved vapour respirator (Filter type A) under conditions where exposure to the substance is apparent (e.g. generation of high concentrations of mist or vapour, inadequate ventilation, development of respiratory tract irritation) and engineering controls are not feasible. See Australian Standards AS/NZS 1715 and 1716 for more information.

Skin Protection:

Chemical-resistant gloves. See Australian/New Zealand Standard AS/NZS 2161 for more information.

When selecting gloves for use against certain chemicals, the degradation resistance, permeation rate and permeation breakthrough time should be considered.

Occupational protective clothing (depending on conditions in which it has to be used, in particular as regards the period for which it is worn, which shall be determined on the basis of the seriousness of the risk, the frequency of exposure to the risk, the characteristics of the workstation of each worker and the performance of

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the protective clothing). See Australian/New Zealand Standard AS/NZS 4501 for more information.

Eye and Face Protection:

Safety glasses with top and side shields or goggles. See Australian/New Zealand Standards AS/NZS 1336 and 1337 for more information.

9 Physical and Chemical Properties

Appearance:

Form:	Aerosol
Colour:	White
Odour:	Solvent-like
Odour Threshold:	No information available
pH-Value:	No information available
Melting point/freezing point:	No information available
Initial Boiling Point/Boiling Range:	40-60 °C
Flash Point:	approx. -23 °C
Flammability (solid, gas):	Extremely flammable
Auto-ignition Temperature:	No information available
Decomposition Temperature:	No information available
Explosion Limits:	
Lower:	No information available
Upper:	No information available
Vapour Pressure:	No information available
Relative Density:	0.74
Vapour Density:	No information available
Evaporation Rate:	Not applicable
Solubility in Water:	Insoluble
Partition Coefficient (n-octanol/water):	No information available
Viscosity:	No information available

10 Stability and Reactivity

Possibility of Hazardous Reactions: No dangerous reactions known under conditions of normal use.**Chemical Stability:** Stable at ambient temperature and under normal conditions of storage and use.**Conditions to Avoid:**

Heat, sparks, open flames and other sources of ignition. Storage at temperatures below 5 °C and above 25 °C.

Incompatible Materials: Strong oxidising agents, strong acids and strong bases.**Hazardous Decomposition Products:** Oxides of carbon and hydrocarbons.

11 Toxicological Information

Toxicity:**LD50/LC50 Values:****CAS: 74-98-6 Propane**

Inhalation LC50/4 h 658 mg/l (Rattus norvegicus (rat))

CAS: 106-97-8 Butane

Inhalation LC50/4 h 658 mg/l (Rattus norvegicus (rat))

CAS: 64742-49-0 Naphtha (petroleum), hydrotreated light

Oral	LD50	4,820 mg/kg (Rattus norvegicus (rat))
	LD50	>1,900 mg/kg (Oryctolagus cuniculus (rabbit))
Inhalation	LC50/4 h	>4.96 mg/l (Rattus norvegicus (rat))

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CAS: 142-82-5 Heptane		
Oral	LD50	>15,000 mg/kg (Rattus norvegicus (rat))
	LD50	>2,000 mg/kg (Oryctolagus cuniculus (rabbit))
Inhalation	L50/4 h	103,000 mg/m ³ (Rattus norvegicus (rat))
CAS: 110-54-3 Hexane		
Oral	LD50	15,720 mg/kg (Rattus norvegicus (rat))
	LD50	>2,000 mg/kg (Oryctolagus cuniculus (rabbit))
Inhalation	L50/4 h	17,600 mg/m ³ (Rattus norvegicus (rat))
CAS: 110-82-7 Cyclohexane		
Oral	LD50	12,705 mg/kg (Rattus norvegicus (rat))

Acute Health Effects**Inhalation:**

May cause drowsiness or dizziness. May cause irritation of respiratory tract, headaches, drowsiness, dizziness, nausea and other central nervous system effects.

Skin: Causes skin irritation.

Eye: Causes serious eye irritation.

Ingestion:

May be fatal if swallowed and enters airways. May cause gastrointestinal irritation, nausea, weakness, dizziness and unconsciousness.

Skin Corrosion / Irritation: Causes skin irritation.

Serious Eye Damage / Irritation: Based on classification principles, the classification criteria are not met.

Respiratory or Skin Sensitisation: Based on classification principles, the classification criteria are not met.

Germ Cell Mutagenicity: May cause genetic defects.

Carcinogenicity: May cause cancer.

Reproductive Toxicity: Suspected of damaging fertility.

Specific Target Organ Toxicity (STOT) - Single Exposure: May cause drowsiness and dizziness.

Specific Target Organ Toxicity (STOT) - Repeated Exposure:

Based on classification principles, the classification criteria are not met.

Aspiration Hazard: May be fatal if swallowed and enters airways.

Chronic Health Effects:

Repeated or prolonged skin exposure may cause de-fatting of the skin, dermatitis and possible sensitisation. Inhalation of very high vapour concentrations or prolonged exposure may cause CNS effects, kidney and liver damage.

Existing Conditions Aggravated by Exposure: No data available.

12 Ecological Information

Ecotoxicity:**Aquatic toxicity:**

Very toxic to aquatic life with long lasting effects.

CAS: 106-97-8 Butane	
EC50/96 h	7.71 mg/l (Algae)
LC50/96 h	24.11 mg/l (fish)
CAS: 142-82-5 Heptane	
EC50/24 h	>10 mg/l (Daphnia magna (water flea))
LC50/96 h	375 mg/l (fish)

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CAS: 110-54-3 Hexane	
EC50/48 h	>3.5 mg/l (Crustacea)
LC50/96 h	>1,000 mg/l (fish)
CAS: 110-82-7 Cyclohexane	
EC50/48 h	0.93 mg/l (Crustacea)
EC50/72 h	9.32 mg/l (Algae)
LC50/96 h	4.53 mg/l (fish)

Persistence and Degradability: No data available on finished product.**Bioaccumulative Potential:** No data available on finished product.**Mobility in Soil:** No data available on finished product.**Other adverse effects:** No further relevant information available.

13 Disposal Considerations

Disposal Methods and Containers: Dispose according to applicable local and state government regulations.**Special Precautions for Landfill or Incineration:**

Please consult your state Land Waste Management Authority for more information.

14 Transport Information

UN Number**ADG, IMDG, IATA** UN1950**Proper Shipping Name****ADG, IMDG, IATA** AEROSOLS, flammable, MARINE POLLUTANT**Dangerous Goods Class****ADG Class:** 2.1**Packing Group:****ADG, IMDG, IATA** -**Marine pollutant:**

Yes

Symbol (fish and tree)

EMS Number:

F-D,S-U

Special Provisions:

63, 190, 277, 327, 344, 381

Excepted quantities (EQ): E0**Limited Quantities:**

1 L

15 Regulatory Information

Australian Inventory of Industrial Chemicals:

All ingredients are listed.

Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Poison Schedule:

Not a scheduled poison.

16 Other Information

Date of Preparation or Last Revision: 12.03.2024**Prepared by:** MSDS.COM.AU Pty Ltd

www.msds.com.au

Abbreviations and acronyms:

ADG: Australian Dangerous Goods

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IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 IARC: International Agency for Research on Cancer
 STEL: Short Term Exposure Limit
 TWA: Time Weighted Average
 NES: National Exposure Standard (Safe Work Australia - Workplace Exposure Standards For Airborne Contaminants)
 Flam. Gas 1A: Flammable gases – Category 1A
 Aerosol 1: Aerosols – Category 1
 Press. Gas C: Gases under pressure – Compressed gas
 Press. Gas L: Gases under pressure – Liquefied gas
 Flammable Liquids 2: Flammable liquids – Category 2
 Skin Corrosion/Irritation 2: Skin corrosion/irritation – Category 2
 Germ Cell Mutagenicity 1B: Germ cell mutagenicity – Category 1B
 Carcinogenicity 1A: Carcinogenicity – Category 1A
 Toxic To Reproduction 2: Reproductive toxicity – Category 2
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
 Aspiration Hazard 1: Aspiration hazard – Category 1
 Aquatic Acute 1: Hazardous to the aquatic environment, short-term (Acute). Category 1
 Aquatic Acute 2: Hazardous to the aquatic environment, short-term (Acute). Category 2
 Aquatic Chronic 1: Hazardous to the aquatic environment, long-term (Chronic). Category 1
 Aquatic Chronic 2: Hazardous to the aquatic environment, long-term (Chronic). Category 2

Disclaimer

This SDS is prepared in accord with the Safe Work Australia document “Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals - July 2020”.

The information contained in this safety data sheet is provided in good faith and is believed to be accurate at the date of issuance. Australian Dental Manufacturing makes no representation of the accuracy or comprehensiveness of the information and to the full extent allowed by law excludes all liability for any loss or damage related to the supply or use of the information in this material safety data sheet. MSDS.COM.AU Pty Ltd is not in a position to warrant the accuracy of the data herein. The user is cautioned to make their own determinations as to the suitability of the information provided to the particular circumstances in which the product is used.