

Product **Handy Can**

Product Code **HC215**

Last Revision October 2013

Version 2

COMPANY DETAILS

COMPANY NAME: ADM – Australian Dental Manufacturing
ACN: 010 967 432

ADDRESS: 25 Billabong Street
Kenmore Hills
Brisbane, QLD. 4069.

TELEPHONE: 07 38781901
FAX: 07 38781903
EMAIL: info@austdent.com.au

EMERGENCY TELEPHONE NUMBER: 131 126

PRODUCT INFORMATION

PRODUCT NAME: Handy Can (Gas in a Can)

Propane/Butane propellant

UN Number	1950
Dangerous Goods Class	2.1
Hazchem Code	2WE
Poison Schedule	None Allocated
Product Use	recharging gas burners
Pack Size	215 ml Aerosol Spray Can

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COMPOSITION

Chemical Composition	CAS number	Proportion
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HAZARDOUS INGREDIENTS:

Proportion

Propane	74-98-6	70% min
Propylene	115-07-1	30% max
Ethane	74-84-0	<2%
Mixed Hydrocarbons (Butane C ₄)	None Allocated	<2.5%

NON HAZARDOUS INGREDIENTS:

Proportion

Ethyl Mercaptan (as an odorant)	75-08-1	0.1%
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PHYSICAL AND CHEMICAL DATA

Appearance:	Colourless gas supplied in compressed liquid form in a small pressure container
Odour	Strong distinctive sulphurous odourant added to assist with early detection
Melting Point:	-189.7°C based on Propane
Boiling Point	-42.1°C based on Propane
Vapour Pressure at 38°C	1200kPa
Specific Gravity	Liquid 0.52 (water = 1) Vapour 1.5 (air = 1)
Flash Point	-104°C (PMC) Test Method ASTM D93
Flammable Limits	LEL 2.2% UEL 9.6%
Auto ignition Temperature	450°C to 549°C
Corrosiveness	Not Corrosive
Solubility	Insoluble in Water Soluble in Hydrocarbon Solvents

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HEALTH HAZARDS IDENTIFICATION

- This Product is classified as hazardous according to criteria of NOHSC.
- Extremely flammable
- Explosive air/vapour mixtures may form at ambient temperatures

ACUTE EFFECTS

INGESTION: None likely as product is liquefied gas which vaporizes very quickly at atmospheric pressure. If liquefied gas enters mouth it may cause frost bite and freeze burns.

EYE: Gaseous vapours are not expected to cause any irritation to the eyes however if the liquefied gas contacts the eye frost bite or freeze burns may cause permanent damage to the eye.

SKIN: Gaseous vapors will not cause skin irritation however the liquefied gas may cause frost bite or freeze burns. Blistering with inflammation and pain may occur.

INHALED: Product is highly volatile. Concentrations up to 10% by volume in air have not caused irritation to eyes, nose or respiratory tract. It is considered non-toxic by inhalation.

Inhalation of high concentrations may cause asphyxiation by displacement of oxygen from the breathing atmosphere. It may cause central nervous system depression such as dizziness, drowsiness, headache, mood disturbances, mental confusion and similar narcotic symptoms but no long term effects.

Signs of asphyxiation will be noticed when oxygen is reduced to below 16% and may occur in four stages. Symptoms include reduced night vision and alertness, fatigue, dizziness, headache, mental confusion, poor coordination, numbness and tingling of extremities, hyperventilation, tremors, cyanosis, and narcosis.

Unconsciousness leading to central nervous system injury and possibly death will occur when the atmospheric oxygen concentration is reduced to about 6% to 8% or less. As this product is packaged in small containers exposure to high concentrations is unlikely unless intentional inhalation.

CHRONIC EFFECTS: None known.

Persons with significant pre-existing heart, lung, or blood diseases may have increased susceptibility to symptoms of asphyxia.

The burning of any hydrocarbon such as Propane as a fuel in an area without adequate ventilation may result in hazardous levels of combustion products including carbon monoxide and reduced levels of oxygen which may cause unconsciousness, suffocation and death.

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FIRST AID

INGESTION: The risk of ingestion is negligible. If ingestion occurs seek immediate medical attention.

EYE: Open eye lids to allow liquid to evaporate. Irrigate the eye with copious amounts of water for 15 minutes. Cover eyes and protect from light. Seek immediate medical attention.

SKIN: Remove contaminated clothing immediately. Clothing frozen to the skin should be thawed using lukewarm water. Seek medical attention.

INHALED: If inhaled, immediately remove person to fresh air until fully recovered. If person is not breathing, open airway and administer CPR (artificial respiration). Administer oxygen if breathing is difficult. Seek urgent medical attention.

EXPOSURE CONTROLS/PERSONAL PROTECTION

In accordance with the criteria of NOHSC this Product is not classified as hazardous.

TWA	<ul style="list-style-type: none"> • 1000ppm (Recommended by Worksafe Australia)
Personal Protection	<ul style="list-style-type: none"> • Use thermally insulated gloves and safety glasses when handling the liquefied gas.
Engineering Controls	<ul style="list-style-type: none"> • Follow procedures to avoid static discharges. Use non-spark tools and flameproof equipment. • The Product contains a flammable asphyxiant gas, therefore when using the product in a confined area it is recommended that the exposure limits for Propane be adopted. • Provide ventilation to control exposure level below airborne exposure limits. Avoid skin and eye contact. It is recommended to wear, safety glasses and impervious gloves when handling the product. Always wash hands before eating and drinking. • If there is risk of inhalation wear approved respiratory protection. Respirators should comply with AS1716 and should be used in according with AS1715. • TWA is the time-weighted average airborne concentration over an eight hour working day, for a five day working week over an entire working life. This concentration should neither impair the health, or not cause undue discomfort to, nearly all workers according to current information. • Ensure good ventilation in storage and use.

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HANDLING & STORAGE

- Product to be handled only by qualified staff in dental offices/laboratories.
- See product instructions for safe use
- Store in a cool well ventilated place out of direct sunlight. High temperatures may cause pressure build up inside the container.
- Store away from strong oxidizing agents such as pool chlorine.
- Store below 25°C in an upright position even when empty; keep away from sources of heat; do not drop; keep valves closed when not in use.
- Protect containers from physical damage, check regularly for leaks.
- Avoid contact with skins and eyes.
- Do not store together with food.
- Comply with the current issue of the Australian Code for the Transportation of Dangerous Goods by Road and Rail and with the relevant Dangerous Goods Legislation in each State or Territory.

Risk Phrases

R10: Flammable

R26: Harmful by inhalation

R21: Harmful in contact with skin

R36: Irritating to eyes

R38: Irritating to skin

Safety Phrases

S2: Keep out of reach of children

S16: Keep away from sources of ignition – no smoking

S23: Do not breath gas/fumes/vapour/spray

S24/25: Avoid contact with skin and eyes

STABILITY & REACTIVITY

REACTIVITY:	Stable at normal temperatures and pressure.
CONDITIONS TO AVOID:	Avoid sources of heat and ignition and static discharges. Avoid contact with incompatible materials.
INCOMPATIBLES:	Reacts with strong oxidizing agents such as pool chlorine or chlorine dioxide to form explosive products.

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TOXICOLOGICAL INFORMATION

SYMPTOMS: No adverse health effects are expected if this product is handled in accordance with this Material Safety Data Sheet and the Product label/instructions.

If the product is spilled or mishandled, symptoms noted in section “Acute Effect” may occur:

Long Term Effects:

No specific long term data is available for this product. Long term data for Propane indicates there is no long term effect if used below the recommended TWA of 1000 ppm.

ECOLOGICAL INFORMATION

- Spillages are unlikely to penetrate soils. The product is volatile/gaseous and will partition to the atmosphere.
- Unlikely to cause long term adverse effects in the environment. This material is not expected to bioaccumulate.
- As it is likely to vaporize quickly it is unlikely to reach waterways to cause long-term effect to the aquatic environment.

DISPOSAL CONSIDERATIONS

- Dispose containers to landfill or return to supplier.
- Empty containers represent a fire hazard as they may contain flammable product residues and vapour. Never welds or solder empty containers.

TRANSPORT INFORMATION

NOT AVAILABLE

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REGULATORY INFORMATION

From information available, this Product is not classified using the criteria of NOHSC.

CONTACT POINT

CONTACT: Business Hours: 07 38781901
Mobile: 0419665074
Emergency 131 126

This MSDS summarises our best knowledge of the health and safety hazard information of this Product and how to safely handle and use the product in the workplace.

Each user should read this MSDS and consider the information in the context of how the Product will be handled and used in the workplace including its use in conjunction with other products. If clarification of any term in this MSDS or further information is required to ensure safe use of this Product can be made the user should contact ADM – Australian Dental Manufacturing

OTHER INFORMATION

This MSDS is prepared with consideration of the document “National Code of Practice for the Preparation of Material Safety Data Sheets”, 2nd Edition [NOHSC:2011(2003)], Worksafe Australia.

Contact Points: Australia

Police & Fire: 000
National Poisons Information Centre: 131126 (anywhere in Australia)

READ LABEL CAREFULLY BEFORE USING PRODUCT

END OF MSDS