

MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT NAME: ECO-JET 1 SPRAY DISINFECTANT
OTHER NAMES: Not applicable.
RECOMMENDED USE: Disinfectant for small surfaces and dental equipment.
SUPPLIER NAME: Cattani Australia and New Zealand
ADDRESS: 280 Dundas Street, THORNBURY, VICTORIA, 3071.
TELEPHONE NUMBER: +613 9484 1120 B.H.
EMERGENCY TELEPHONE NUMBER: Poisons Information Centre 13 11 26

SECTION 2 – HAZARDS IDENTIFICATION

Statement of Hazardous Nature of Product: This product is not classified as Hazardous according to criteria of the National Occupational Health and Safety Commission (SafeWork Australia). It is not Dangerous Goods according to the Australian Dangerous Goods (ADG) Code.

Risk Phrases: Not applicable.

Safety Phrases: S2 - Keep out of reach of children.
S16 - Keep away from sources of ignition.
S23 - Do not breathe vapours or spray mists.
S24/25 - Avoid contact with skin and eyes.
S37/39 - Wear suitable gloves and eye/face protection.
S51 - Use only in well ventilated areas.

UN NUMBER: Not applicable.
PROPER SHIPPING NAME: Not applicable.
HAZCHEM CODE: Not applicable.
DANGEROUS GOODS CLASS/SUBSIDIARY RISK: Not applicable.
POISONS SCHEDULE NUMBER: Not applicable.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	PROPORTION % WT
Ethanol (Ethyl alcohol)	67-17-5	< 10%
Propan-2-ol (Isopropyl alcohol, isopropanol)	67-63-0	< 10%
3-Butoxypropan-2-ol (Propylene glycol monobutyl ether)	5131-66-8	< 1%
Didecydimethylammonium chloride	7173-51-5	< 1%
Mixture of ingredients, including perfume determined not to be hazardous	Mixture	To 100%

MATERIAL SAFETY DATA SHEET

SECTION 4 – FIRST AID MEASURES

- INGESTION:** Rinse mouth out and give a glass of water. The manufacturer recommends that if swallowed, do NOT induce vomiting. If vomiting has occurred after ingestion or irritation develops or persists, consult a doctor taking this MSDS with you.
- EYE:** If in eyes, hold eyelids apart and flush the eye immediately with large amounts of running water. Continue flushing for at least 15 minutes or until advised to stop by a doctor. Check for contact lenses. If there are contact lenses, these should be removed under supervision. As a precaution after flushing, due to the presence of Didecydimethylammonium chloride in the product, consult a doctor.
- SKIN CONTACT:** If skin or hair contact has occurred remove any contaminated clothing, wash skin or hair thoroughly with soap and water. If irritation develops or persists, consult a Doctor.
- INHALATION:** If affected, remove the patient from contaminated area, if safe to do so. Lay patient down in a well-ventilated area and reassure them. If irritation develops or persists or the patient exhibits symptoms, such as dizziness or uncoordination, consult a doctor. If not breathing, provide artificial respiration and seek immediate medical assistance. If unconscious, place in a recovery position and seek immediate medical assistance.
- FIRST AID FACILITIES:** Eye wash fountain and safety showers are recommended. As a minimum, a source of running, potable water must be available.
- ADVICE TO DOCTOR:** Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

- FIRE:** This product is not flammable under conditions of use. If heated, it may release vapours that are flammable. Keep storage tanks, pipelines, fire exposed surfaces, etc. cool with water spray.
- EXPLOSION:** No information to indicate that the product is an explosion hazard, however vapours may produce an explosive atmosphere if the product is heated. Vapours may accumulate in low or confined areas or travel to a source of ignition. Extinguish all sources of flame or spark.
- FIRE EXTINGUISHING MEDIA:** Use extinguishing media appropriate for surrounding fire. Use alcohol-resistant foam or water haze for large fires and alcohol-resistant foam, dry chemical or carbon dioxide for small fires. Water may be used to keep adjacent containers cool.
- COMBUSTION HAZARDS:** Combustion may produce irritating or toxic substances such as oxides of carbon and small amounts of nitrogen and chlorine upon thermal decomposition. Avoid breathing vapours.
- PROTECTIVE EQUIPMENT:** In the event of a fire, wear full protective clothing and self-contained breathing equipment with full-face piece operated in the pressure demand or other positive pressure mode.

MATERIAL SAFETY DATA SHEET

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTION:	For normal spills in a surgery, wear gloves, safety glasses, closed shoes and full-length clothing. For large spills, such as during transportation, full protective clothing, including self-contained breathing apparatus is recommended.
EMERGENCY PROCEDURES:	Ventilate area and extinguish and/or remove all sources of ignition. Stop the leak if safe to do so. Contain the spill. Caution: The spill area will be slippery. Absorb with a proprietary absorbent material, sand or earth. Place used absorbent in suitable sealed containers and follow local and state regulations for disposal of waste. Clean spill area with detergent and water. Do not allow product to enter drains, sewers or watercourses - inform local authorities if this occurs.
CLEANING PROCEDURES:	Having contained the spill, collect all material quickly as mentioned above. Personnel should use the protective clothing mentioned above during cleaning procedures. Wash the contaminated area and cleaning objects with detergent and water after the spill has been cleared.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:	Avoid contact with the product by using appropriate protective equipment such as gloves, safety glasses and full-length clothing. Avoid inhalation of vapours and spray mist that will be generated during usage. Use only in well ventilated areas. Remove all sources of ignition before using the product. Eating, drinking, and smoking should be prohibited in the area where this material is handled, stored and processed. Personnel should follow good personal hygiene practices, such as washing hands before eating, drinking and smoking. Keep containers tightly closed when not in use. Prevent product from entering waterways, drains or sewers.
CONDITIONS FOR SAFE STORAGE:	Store in a well-ventilated, frost-free area away from ignition sources, direct sunlight, oxidising agents, foodstuffs and clothing. Keep containers closed when not in use. Always keep in containers made of the same material as the original one. Do not transfer contents to bottles or other unlabelled containers.
INCOMPATIBILITIES:	Oxidising agents including strong acids.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

AIRBORNE EXPOSURE LIMITS:	Exposure standards for the product have not been established. However, if mists or vapours are generated the following Exposure Standards should be observed for the following components: Ethanol (Ethyl alcohol, CAS No. 64-17-5) Time Weighted Average (TWA): 1000 ppm, 1880 mg/m ³ Propan-2-ol (isopropyl alcohol, CAS No. 67-63-0) Time Weighted Average (TWA): 400 ppm, 983 mg/m ³ Short Term Exposure Limit (STEL): 500 ppm, 1230 mg/m ³
VENTILATION SYSTEMS:	Special ventilation is not normally required during routine use. However, if vapours are generated in an enclosed environment local ventilation should be provided to maintain airborne concentration levels below the exposure standard and at an acceptable level that does not cause irritation.

MATERIAL SAFETY DATA SHEET

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION cont.

PERSONAL RESPIRATORS: During routine operation a respirator is not required. However, if mists or vapours are generated, an approved organic vapour/particulate respirator is required. Use respirators in accordance with AS 1715 and AS 1716.

GLOVE TYPE: Wear gloves to provide hand protection. Natural rubber or neoprene gloves are recommended.

CLOTHING: During normal operating procedures, long sleeved clothing is recommended to avoid skin contact. Soiled clothing should be washed with detergent prior to re-use.

EYE PROTECTION: Wear safety glasses to avoid eye contact when handling.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear liquid.
ODOUR: Floral perfume fragrance.
VAPOUR DENSITY: No data available.
VAPOUR PRESSURE (mmHg): No data available.
DENSITY: Typically 0.97 g/mL.
VISCOSITY: No data available.
FLASHPOINT (°C): > 65 °C.
FLAMMABILITY LIMITS (%): If vapours are generated, based upon literature figures for Ethanol and Propan-2-ol the expected Lower Explosive Limit is ~ 2.0% and Upper Explosive Limit is ~ 19%.
SOLUBILITY IN WATER(g/L): Fully miscible in water.
BOILING POINT (°C): No data available.
% VOLATILE-WT/WT No data available.
EVAPORATION RATE: No data available.
pH: Approximately 7 (1% Solution).

SECTION 10 – STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable under ordinary conditions of use and storage.

CONDITIONS TO AVOID: Do not heat container or leave the container open when not in use. Avoid heat, open flames and sparks.

INCOMPATIBLES: Strong oxidising agents including concentrated acids.

HAZARDOUS DECOMPOSITION

PRODUCTS: Combustion may produce irritating or toxic substances such as oxides of carbon and small amounts of nitrogen and chlorine upon thermal decomposition. Avoid breathing vapours.

HAZARDOUS REACTIONS: Hazardous polymerisation does not occur.

MATERIAL SAFETY DATA SHEET

SECTION 11 – TOXICOLOGICAL INFORMATION

HEALTH EFFECTS

ACUTE

SWALLOWED: If swallowed, it may cause slight irritation to the mouth, throat and digestive tract. Ingestion of large amounts may lead to nausea and vomiting and possibly central nervous system depression, which may exhibit as symptoms like those of drunkenness. If vomiting has occurred after ingestion, the person should be monitored to ensure that aspiration into the lungs has not occurred and there are no adverse effects. During normal usage ingestion should not be a means of exposure.

EYE: This product contains Didecydimethylammonium chloride at levels below its Concentration Cut-Off level and may therefore be mildly irritating to the eyes. Symptoms may include irritation, slight pain and redness. Avoid contact with the eyes.

SKIN: May be mildly irritating to the skin. Correct handling procedures incorporating appropriate protective clothing and gloves should minimise the risk of skin irritation. People with pre-existing skin conditions, such as dermatitis, should take extreme care so as not to exacerbate the condition.

INHALED: May be a mild inhalation hazard. Inhalation of vapours or spray mist may cause irritation to the nose, throat and respiratory system. During normal use of the product with adequate ventilation, inhalation should not be a means of entry. As the product contains alcohols, a build up of vapours in a confined space or intentional concentration of vapours may cause drowsiness or dizziness.

CHRONIC Prolonged, repeated, long term exposure to the product via skin contact may lead to irritation of the skin. Observation of good work practices should minimise the potential for this to occur.

TOXICITY DATA: There is no data on the product as a whole.

Immunotoxicity: The data for Propan-2-ol is Oral LD50 (rat): 4.42 to 5.84 g/kg. For Ethanol the Oral LD50 (Rabbit): 6.3 g/kg and Oral LD50 (rat, single dose): 7.06 g/kg.

Skin Sensitisation: This product is not expected to be a skin sensitiser, based on the available data and the known hazards of the components.

Respiratory Tract Sensitisation: This product is not expected to be a respiratory tract sensitiser, based on the available data and the known hazards of the components.

Mutagenic: This product is not expected to be a mutagen, based on the available data and the known hazards of the components.

Reproductive Toxicity: This product is not expected to be a reproductive hazard, based on the available data and the known hazards of the components.

Teratogenicity/Embryotoxicity: This product is not expected to be a teratogen or an embryotoxin, based on the available data and the known hazards of the components.

Carcinogenicity: This product is not expected to be carcinogenic, based on the available data and the known hazards of the components.

MATERIAL SAFETY DATA SHEET

SECTION 12 – ECOLOGICAL DATA

ECOTOXICITY:	There is no data available for the product as a whole. Based upon calculated values, the overall product would not be expected to be rated.
PERSISTENCE & DEGRADABILITY:	There is no persistence or degradability information available on the product.
MOBILITY:	No mobility information is available.
ENVIRONMENTAL FATE:	No environmental fate information is available.
BIOACCUMULATIVE POTENTIAL:	There is no bioaccumulative potential information available.

SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHODS/ CONTAINERS:	Spilled product, which cannot be recovered for use, should be shovelled into a suitable waste container, and treated as a solid waste. Follow state or local regulations for disposal of the waste. Empty containers may retain residue and can be dangerous. Containers should be cleaned and then sent for recycling; otherwise they must be treated as hazardous waste. Do not allow product to enter drains, sewers and watercourses.
--------------------------------------	---

SECTION 14 – TRANSPORT INFORMATION

UN NUMBER:	Not applicable. This product is not regulated according to the ADG Code.
PROPER SHIPPING NAME:	Not applicable.
DANGEROUS GOODS CLASS/SUBSIDIARY RISK:	Not applicable.
PACKAGING GROUP:	Not applicable.
SPECIAL PROVISION:	Not applicable.
HAZCHEM CODE:	Not applicable

SECTION 15 – REGULATORY INFORMATION

Statement of Hazardous Nature of Product: This product is not classified as Hazardous according to criteria of the National Occupational Health and Safety Commission (SafeWork Australia).

Risk Phrases: Not applicable.

Safety Phrases:

- S2 - Keep out of reach of children.
- S16 - Keep away from sources of ignition.
- S23 - Do not breathe vapours or spray mists.
- S24/25 - Avoid contact with skin and eyes.
- S37/39 - Wear suitable gloves and eye/face protection.
- S51 - Use only in well ventilated areas.

No additional regulatory information is available.

MATERIAL SAFETY DATA SHEET

SECTION 16 – OTHER INFORMATION

Date of MSDS Preparation: 1st December 2010

Revision: 2.0

ACRONYMS

SUSMP	Standard for the Uniform Scheduling of Medicines and Poisons
ADG Code	Australian Code for the Transport of Dangerous Goods by Road and Rail
CAS Number	Chemical Abstracts Service Registry Number
UN Number	United Nations Number
ACGIH	American Conference of Governmental Industrial Hygienists
R-Phrase	Risk Phrases
S-Phrase	Safety Phrases
HAZCHEM No	An emergency action code of numbers and letters which gives information to emergency services
NOHSC	National Occupational Health and Safety Commission (SafeWork Australia)
OSHA	Occupational Health and Safety Administration
PEL	Permissible Exposure Limit
TLV	Threshold Limit Value
AICS	Australian Inventory of Chemical Substances
IARC	International Agency for Research on Cancer

CONTACT POINT

NAME: Jason Borg
TELEPHONE NUMBER: +613 9484 1120 B.H.

All information contained in this Material Safety Data Sheet and the health, safety and environmental information are considered to be accurate to the best of our knowledge as of the issue date specified above. However, no warranty or representation, expressed or implied, is made as to the accuracy or completeness of the data and information contained in this data sheet.

Health and safety precautions and environmental advice noted in this data sheet may not be accurate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations. The Company accepts no responsibility for any injury, loss or damage, resulting from abnormal use of the material, from any failure to adhere to recommendations, or from any hazards inherent in the nature of the material.