

MATERIAL SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION OF THE MATERIAL AND SUPPLIER

PRODUCT NAME: PULI JET PLUS NEW
OTHER NAMES:
RECOMMENDED USE: Detergent disinfectant for dental vacuum systems.
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 classified as Hazardous according to criteria of the National Occupational Health and Safety Commission. It is Dangerous Goods according to the Australian Dangerous Goods (ADG) Code.

Xn – Harmful, C – Corrosive

Risk Phrases: R21/22 – Harmful in contact with skin and if swallowed.
R34 – Causes burns.
R43 – May cause sensitisation by skin contact.

Safety Phrases: S2 – Keep out of reach of children.
S24/25 – Avoid contact with skin and eyes.
S26 – In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or the Poisons Information Centre (Phone 13 11 26).
S27/28 – After contact with skin, take off immediately all contaminated clothing, and wash thoroughly with soap and water and then methylated spirit if available.
S36/37/39 – Wear suitable protective clothing, gloves and eye/face protection.
S45 – In case of accident or if you feel unwell, contact a doctor or the Poisons Information Centre (Phone 13 11 26) immediately and show the container or label.
S62 – If swallowed, do NOT induce vomiting: seek medical advice immediately and show the container or label.

UN NUMBER: 1760
PROPER SHIPPING NAME: Corrosive Liquid, N.O.S, (Contains 4-chloro-3-methylphenol, 2-Benzyl-4-chlorophenol, Trisodium nitrilotriacetate, sodium hydroxide and Poly(oxy-1,2-ethanediol)-phenyl-hydroxy phosphate).
HAZCHEM CODE: 2X
DANGEROUS GOODS CLASS/SUBSIDIARY RISK: Class 8 - Corrosive Liquid.
POISONS SCHEDULE NUMBER: S6.

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SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS	CAS NUMBER	PROPORTION % WT
1-methoxy-2-propanol	107-98-2	10% - < 30%
Chlorocresol (4-Chloro-3-methylphenol)	59-50-7	10% - < 30%
2-Benzyl-4-chlorophenol 10%	120-32-1	<
Trisodium nitrilotriacetate	5064-31-3	3% - < 4.9%
Sodium hydroxide	1310-73-2	3% - < 4.9%
Poly (oxy-1,2-ethanediol)-phenyl-hydroxy phosphate	39464-70-5	1% - < 3%
Perfume	-	1% - < 3%
Water	7732-18-5	To 100%

SECTION 4 – FIRST AID MEASURES

INGESTION:	This product contains phenol components and is a corrosive substance. If swallowed, do NOT induce vomiting; seek medical advice immediately taking the MSDS, label or container with you. If conscious, rinse out mouth with water.
EYE:	If in eyes, hold eyelids apart and flush the eye continuously with running water and contact the Poisons Information Centre (Phone 13 11 26). Continue flushing until advised to stop by a Doctor, or for at least 15 minutes. Check for contact lenses. If there are contact lenses these should be removed under medical supervision. After rinsing, seek medical attention immediately taking the MSDS, label or container with you.
SKIN CONTACT:	After contact with the skin or hair remove any contaminated clothing and wash skin or hair thoroughly with soap and water. After washing and rinsing, wash thoroughly with methylated spirit if it is available. Seek medical attention taking the MSDS, label or container with you.
INHALATION:	If affected and it is safe to do so, remove the patient from contaminated area. Lay patient down in a well-ventilated area and reassure them. If not breathing, provide artificial respiration and seek immediate medical assistance. If unconscious, place in a recovery position and seek immediate medical assistance. Seek advice if irritation develops or persists.
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:	The product is not flammable. Keep containers and fire exposed surfaces, etc. cool with water spray.
EXPLOSION:	This product in its natural state does not present an explosion hazard.
FIRE EXTINGUISHING MEDIA:	Use extinguishing media appropriate for surrounding fire. Use foam or water haze for large fires and 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.

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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. 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. Avoid breathing vapours. 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:

The product may generate flammable gases on contact with alkali and alkaline earth metals, nitrides and powerful reducing agents. It may catch fire on contact with concentrated, oxidising mineral acids.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

AIRBORNE EXPOSURE**LIMITS:**

Exposure limits have not been established for this product. However the following component values are applicable.

Exposure standards for 1-Methoxy-2-propanol:

Time Weighted Average (TWA): 100ppm; 369 mg/m³.

Short Term Exposure Limit (STEL): 150ppm; 553 mg/m³.

Exposure standards for Sodium hydroxide:

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SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION cont.

- 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.
- PERSONAL RESPIRATORS:** During routine use a respirator is not required.
- GLOVE TYPE:** Wear gloves to provide hand protection. Nitrile 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. If there is a risk of splashing during use, goggles are recommended.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

- APPEARANCE:** Clear, amber liquid.
- ODOUR:** Typical light phenolic.
- VAPOUR DENSITY:** No data available.
- VAPOUR PRESSURE (mmHg):** No data available.
- DENSITY:** Typically 1.095 g/cm³.
- VISCOSITY:** No data available.
- FLASHPOINT (°C):** Not applicable.
- FLAMMABILITY LIMITS (%):** Not applicable.
- 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:** Typically 12.

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:** The product may generate flammable gases on contact with alkali and alkaline earth metals, nitrides and powerful reducing agents. It may catch fire on contact with concentrated, oxidising mineral 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.

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SECTION 11 – TOXICOLOGICAL INFORMATION

HEALTH EFFECTS

ACUTE

SWALLOWED: The product is a schedule 6 Poison. This product is rated as R22 - Harmful if swallowed. The product has a high pH of approximately 12. Hence, ingestion will have a corrosive effect. It contains phenols, trisodium nitriloacetate, sodium hydroxide and Poly (oxy-1,2-ethanediol)-phenyl-hydroxy phosphate. During normal usage ingestion should not be a means of exposure.

EYE: This product is corrosive and has ingredients that may cause severe damage to the eye if it is not treated immediately. The product may cause opacity of the cornea or lesions to the iris.

SKIN: This product is corrosive and if brought into contact with the skin, causes burning, with the potential for destruction of the entire thickness of skin tissue. The product is also rated as R43 - May cause sensitisation by skin contact. It is also rated as R21 – Harmful in contact with skin due to the phenolic components in the product. 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: The product is not expected to be an inhalation hazard during normal usage. If vapours are generated, they may be irritating to the eyes and respiratory tract.

CHRONIC As mentioned previously, due to some of the components, the product may cause sensitisation by skin contact. Observation of good work practices should minimise the potential for this to occur. Once a person has been sensitised, contact with very small amounts may exacerbate the condition.

TOXICITY DATA: The manufacturer nominates that the Oral LD50 (rabbit) is 8 g/kg (8000 mg/kg) for the product.

SECTION 12 – ECOLOGICAL DATA

ECOTOXICITY: There is no data available for the product as a whole. However, based upon the raw material ingredient data, the product is expected to be rated as N – Dangerous for the Environment. Based upon component data, the product is expected to be rated as R51/53 – Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

PERSISTENCE & DEGRADABILITY: There is no persistence or degradability information available on the product. The manufacturer nominates that all active ingredients are biodegradable at the dilution rates arising in the sewage system.

MOBILITY: No mobility information is available.

ENVIRONMENTAL FATE: No environmental fate information is available.

BIOACCUMULATIVE POTENTIAL:

There is no bioaccumulative potential information available.

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SECTION 13 – DISPOSAL CONSIDERATIONS

DISPOSAL METHODS/ CONTAINERS:

Spilled product 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: 1760
PROPER SHIPPING NAME: Corrosive Liquid, N.O.S, (Contains 4-Chloro-3-methylphenol, 2-Benzyl-4-chlorophenol, Trisodium nitrilotriacetate, Sodium hydroxide and Poly (oxy-1,2-ethanediol)-phenyl-hydroxy phosphate).

**DANGEROUS GOODS
CLASS/SUBSIDIARY RISK:** Class 8 - Corrosive Liquid.
PACKAGING GROUP: III.
SPECIAL PROVISION: SP109, SP185, SP274.
HAZCHEM CODE: 2X

SECTION 15 – REGULATORY INFORMATION

Statement of Hazardous Nature of Product: This product is classified as Hazardous according to criteria of the National Occupational Health and Safety Commission. It is Dangerous Goods according to the Australian Dangerous Goods (ADG) Code.

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S45 – In case of accident or if you fell unwell, contact a doctor or the Poisons Information Centre (Phone 13 11 26) immediately and show the container or label.
S62 – If swallowed, do NOT induce vomiting: seek medical advice immediately and show the container or label.

No additional regulatory information is available.

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SECTION 16 – OTHER INFORMATION

Date of MSDS Preparation: 30th April 2010

Version: 1

ACRONYMS

SUSDP	Standard for the Uniform Scheduling of Drugs 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
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

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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.