

# Safety Data Sheet

Infosafe No™ 4ACJH Issue Date : January 2014 ISSUED by PDS

Product Name : **ROTAGEN**

## 1. Identification

**GHS Product Identifier** ROTAGEN  
**Company Name** Professional Dentist Supplies Pty. Ltd. (ABN 69 088 275 576)  
**Address** 3/8 Nicole Close Bayswater North  
VIC 3153 Australia  
**Telephone/Fax Number** Tel: +61 3 9761 6615  
Fax: +61 3 9730 1073  
**Emergency phone number** +61 3 9761 6615 bh  
**Recommended use of the chemical and restrictions on use** Extra high pressure, temperature stable, aerosol spray for the lubrication and cleaning of high and low speed dental rotary instruments.

**Other Names**

**Name**

**Product Code**

350g NET HIGH PRESSURE AEROSOL SPRAY CAN 36350

**Other Information**

PROFESSIONAL DENTIST SUPPLIES  
Ph: 03 9761 6615 (business hours)  
The information contained within this material safety data sheet (MSDS) is believed to be accurate on the date of issue and in accordance with the information provided to us. Any person handling the product referred to in this material safety data sheet do so at their own risk. Professional Dental Supplies accepts no liability whatsoever for damage or injury caused from the use of this information or of suggestions contained herein.

## 2. Hazard Identification

**Classification of the substance or mixture** Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.  
Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

**Signal Word (s)** Flammable Aerosol: Category 1  
Toxic to Reproduction: Category 1  
Hazardous to the Aquatic Environment - Acute Hazard: Category 2  
Danger

**Hazard Statement (s)** H222 Extremely flammable aerosol.  
H360 May damage fertility or the unborn child.  
H401 Toxic to aquatic life.

**Pictogram (s)** Flame, Health hazard



**Precautionary statement – Prevention** 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.  
P273 Avoid release to the environment.  
P281 Use personal protective equipment as required.

**Precautionary statement – Response** P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P331 Do NOT induce vomiting.

**Precautionary statement – Storage** P405 Store locked up.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

**Precautionary statement – Disposal** P501 Dispose of contents/container to an approved waste disposal plant.

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### 3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Hydrocarbon Propellant (LPG)	68476-85-7	30-60 %
	Naphtha, petroleum, hydrotreated heavy	64742-48-9	10-30 %
	Dibutyl phthalate	84-74-2	0-10 %

### 4. First-aid measures

<b>Inhalation</b>	If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms persist seek medical attention.
<b>Ingestion</b>	Unlikely to occur due to the physical state of the product. However, if ingested, rinse mouth with water. Do NOT induce vomiting. Seek medical attention.
<b>Skin</b>	Wash affected area thoroughly with soap and water. If symptoms develop seek medical attention.
<b>Eye contact</b>	If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. If symptoms develop and persist seek medical attention.
<b>First Aid Facilities</b>	Eyewash and normal washroom facilities.
<b>Advice to Doctor</b>	Treat symptomatically.
<b>Other Information</b>	For advice in an emergency, contact a Poisons Information Centre (Phone Australia 13 11 26) or a doctor at once.

### 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Use carbon dioxide, dry chemical, foam, water fog or water mist. Alcohol resistant foam is preferred. If not available fine water spray/mist can be used.
<b>Unsuitable Extinguishing Media</b>	Do not use water jet.
<b>Hazards from Combustion Products</b>	Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.
<b>Specific hazards arising from the chemical</b>	Contents under pressure - cans can explode in a fire or may become a projectile in a fire. This product is extremely flammable. Keep containers and fire-exposed surfaces cool with water spray. Shut off any leak if safe to do so and remove sources of re-ignition. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.
<b>Hazchem Code</b>	2YE
<b>Decomposition Temp.</b>	Not available
<b>Precautions in connection with Fire</b>	Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. In case of fire the product may be violently or explosively reactive. Use water spray to disperse vapours. This product should be prevented from entering drains and watercourses.

### 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Extinguish or remove all sources of ignition. Wear appropriate personal protective equipment and clothing to prevent exposure. Evacuate all unprotected personnel. Water spray or fog may be used to disperse/absorb vapour if any. If safe, damaged cans should be placed in a container outdoors, away from ignition sources, until pressure has dissipated. Undamaged cans should be gathered and stowed safely. Place inert, non-combustible absorbent material onto liquid spillage. Collect residues and seal in labelled drums for disposal. If contamination of sewers or waterways occurs inform the local water authorities and waste management authorities in accordance with local regulations. Dispose of waste according to applicable local and national regulations.
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## 7. Handling and storage

<b>Precautions for Safe Handling</b>	Wear appropriate protective clothing and equipment to prevent inhalation, skin and eye exposure. Handle and use the material in a well-ventilated area, away from sparks, flames and other ignition sources. DO NOT store or use in confined spaces. Have emergency equipment (for fires, spills, leaks, etc.) readily available. Build up of mists or vapours in the atmosphere must be prevented. Do not spray on a naked flame or any incandescent material. Do NOT puncture, cut or heat containers as they may contain hazardous residues. Do not smoke. Flameproof equipment is necessary in areas where the product is being used. Take precautionary measures against static discharges. Earth or bond all equipment. Do not empty into drains. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities.
<b>Conditions for safe storage, including any incompatibilities</b>	Store in a cool, dry, well ventilated area away from sources of ignition, oxidising agents, foodstuffs, clothing and out of direct sunlight. Protect container against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Do NOT pressurise, cut or heat aerosol containers. Content is under pressure and can explode violently. For information on the design of the storeroom, reference should be made to Australian Standard AS 2278-2000 Non-refillable metal aerosol dispensers of capacity 50 mL to 1000 mL inclusive. Reference should also be made to all Local, State and Federal regulations.
<b>Storage Temperatures</b>	Do not expose to temperatures exceeding 40°C.

## 8. Exposure controls/personal protection

<b>Occupational exposure limit values</b>	No exposure value assigned for this material by Safe Work, Australia. However, the available exposure limits for ingredients are listed below:  Safe Work, Australia Exposure Standards: <table style="width: 100%; border-collapse: collapse; margin-left: 20px;"> <thead> <tr> <th rowspan="2">Substance</th> <th colspan="2">TWA</th> <th colspan="2">STEL</th> <th rowspan="2">NOTICES</th> </tr> <tr> <th>ppm</th> <th>mg/m<sup>3</sup></th> <th>ppm</th> <th>mg/m<sup>3</sup></th> </tr> </thead> <tbody> <tr> <td>Dibutyl phthalate</td> <td>-</td> <td>5</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>LPG</td> <td>1000</td> <td>1800</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>Oil mist, refined</td> <td>-</td> <td>5</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> <p>TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.                      STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.                      LPG is an asphyxiant gas which when present in an atmosphere in high concentration, lead to reduction of oxygen concentration by displacement or dilution. It is not appropriate to recommend an exposure standard for an asphyxiant, rather it should be required that a sufficient oxygen concentration be maintained.</p>	Substance	TWA		STEL		NOTICES	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	Dibutyl phthalate	-	5	-	-	-	LPG	1000	1800	-	-	-	Oil mist, refined	-	5	-	-	-
Substance	TWA		STEL		NOTICES																								
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Oil mist, refined	-	5	-	-	-																								
<b>Biological Limit Values</b>	No biological limits allocated.																												
<b>Appropriate engineering controls</b>	Provide sufficient ventilation to keep airborne levels below the exposure limits. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flameproof exhaust ventilation system is required. Before entering a confined space where asphyxiant gas is present, check to make sure sufficient Oxygen (19.5%) exists. Refer to AS 2865 - 2009 Australian Standard Confined spaces.																												
<b>Respiratory Protection</b>	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.																												
<b>Eye Protection</b>	Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual																												

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<b>Hand Protection</b>	circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications. Wear gloves of impervious material such as nitrile. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
<b>Body Protection</b>	Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

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## 9. Physical and chemical properties

<b>Appearance</b>	Clear liquid
<b>Colour</b>	Not available
<b>Odour</b>	Not available
<b>Decomposition Temperature</b>	Not available
<b>Melting Point</b>	Not available
<b>Boiling Point</b>	Not available
<b>Solubility in Water</b>	Not available
<b>Solubility in Organic Solvents</b>	Not available
<b>Specific Gravity</b>	Not available
<b>pH</b>	Not available
<b>Vapour Pressure</b>	Not available
<b>Vapour Density (Air=1)</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Odour Threshold</b>	Not available
<b>Viscosity</b>	Not available
<b>Partition Coefficient: n-octanol/water</b>	Not available
<b>Density</b>	Not available
<b>Flash Point</b>	< 60°C
<b>Flammability</b>	Extremely flammable aerosol
<b>Auto-Ignition Temperature</b>	Not available
<b>Flammable Limits - Lower</b>	Not available
<b>Flammable Limits - Upper</b>	Not available

## 10. Stability and reactivity

<b>Reactivity</b>	Refer to Sec 10: Possibility of hazardous reactions.
<b>Chemical Stability</b>	Stable under normal conditions of storage and handling.
<b>Conditions to Avoid</b>	Heat, direct sunlight, flames and other sources of ignition.
<b>Incompatible Materials</b>	Strong oxidising agents.
<b>Hazardous Decomposition Products</b>	Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.

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**Possibility of hazardous reactions** Will react with incompatible materials.  
**Hazardous Polymerization** Will not occur.

## 11. Toxicological Information

**Toxicology Information** No toxicity data available for this product.  
**Ingestion** Ingestion unlikely due to form of product.  
**Inhalation** Inhalation of product vapours may cause irritation of the nose, throat and respiratory system. LPG is an asphyxiant gas which when present in an atmosphere in high concentration, leads to reduction of oxygen concentration by displacement or dilution.  
**Skin** May be irritating to skin. The symptoms may include redness, itching and swelling.  
**Eye** May be irritating to eyes. The symptoms may include redness, itching and tearing.  
**Respiratory sensitisation** Not expected to be a respiratory sensitiser.  
**Skin Sensitisation** Not expected to be a skin sensitiser.  
**Germ cell mutagenicity** Not considered to be a mutagenic hazard.  
**Carcinogenicity** Not considered to be a carcinogenic hazard.  
**Reproductive Toxicity** May damage fertility or the unborn child. Classified as a Known or presumed human reproductive or developmental toxicant.  
**STOT-single exposure** Not expected to cause toxicity to a specific target organ.  
**STOT-repeated exposure** Not expected to cause toxicity to a specific target organ through repeated or prolonged exposure.  
**Aspiration Hazard** Not expected to be an aspiration hazard.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life.  
**Persistence and degradability** Not available  
**Mobility** Not available  
**Bioaccumulative Potential** Not available  
**Environmental Protection** Do not discharge this material into waterways, drains and sewers.

## 13. Disposal considerations

**Disposal Considerations** Dispose of waste according to applicable local and national regulations. Do not pierce, burn, cut, puncture or weld on or near containers. Empty containers may contain hazardous residues. Empty the container completely before disposal. Contaminated containers must not be treated as household waste. Advise flammable nature.

## 14. Transport information

**Transport Information** Road and Rail Transport (ADG Code):  
 This material is classified as a Division 2.1 (Flammable Gases) Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road or Rail. ( 7th edition)  
 Division 2.1 Dangerous Goods are incompatible in a placard load with any of the following:  
 - Class 1, Explosives  
 - Division 2.2 Non-flammable, Non toxic gas that have a subsidiary risk 5.1 except when all are packed in cylinders or pressure drums not exceeding 500L capacity.

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- Class 3, Flammable Liquids, if both the Division 2.1 and Class 3 dangerous goods are in tanks or other receptacles with a capacity individually exceeding 500L.
- Division 4.1, Flammable Solids
- Division 4.2, Spontaneously Combustible Substances
- Division 4.3, Dangerous When Wet Substances
- Division 5.1, Oxidising Agents
- Division 5.2, Organic Peroxides
- Class 7, Radioactive Substances

#### Marine Transport (IMO/IMDG):

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

Proper Shipping Name: AEROSOLS

UN-No: 1950

Division: 2.1

EmS: F-D,S-U

Special Provisions: 63 190 277 327 344 959

#### Air Transport (ICAO/IATA):

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.

Proper Shipping Name: Aerosols, flammable

UN-No: 1950

Division: 2.1

Packaging Instructions (cargo only): 203

Packaging Instructions (passenger & cargo): 203

Special Provisions: A145, A167, A802

1950

#### U.N. Number

UN proper shipping name AEROSOLS

Transport hazard class(es) 2.1

Hazchem Code 2YE

EPG Number 2D1

IERG Number 49

IMDG Marine pollutant No

## 15. Regulatory information

<b>Regulatory Information</b>	Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia. Not classified as a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
<b>Poisons Schedule</b>	Not Scheduled
<b>AICS (Australia)</b>	The listed chemicals are included in Australian Inventory of Chemical Substances (AICS) or otherwise notified under NICNAS.

## 16. Other Information

<b>Date of preparation or last revision of SDS</b>	SDS Reviewed: January 2014 Supersedes: January 2009, May 2004
<b>Literature References</b>	Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice. Standard for the Uniform Scheduling of Medicines and Poisons. Australian Code for the Transport of Dangerous Goods by Road & Rail. Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals. Workplace exposure standards for airborne contaminants, Safe work Australia. American Conference of Industrial Hygienists (ACGIH). Globally Harmonised System of classification and labelling of chemicals.

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## Contact Person/Point

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