SAFETY DATA SHEET
ANTIRUST POWDER

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

GHS Product Identifier ANTIRUST POWDER

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 9761 6566

Emergency phone number
+61 3 9761 6615 BH

Recommended use of the chemical and restrictions on use
An antirust agent

<table>
<thead>
<tr>
<th>Other Names</th>
<th>Name</th>
<th>Product Code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>ANTIRUST POWDER</td>
<td>34351</td>
</tr>
</tbody>
</table>

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.

SECTION 2 - HAZARDS IDENTIFICATION SUMMARY

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. (7.5th edition)

Oxidizing Solids: Category 3 Acute Toxicity - Oral: Category 3
Skin Corrosion/Irritation: Category 2 Eye Damage/Irritation: Category 2A
Hazardous to the Aquatic Environment - Acute Hazard: Category 1

Signal Word(s)
Danger
Hazard Statement (s)
H272 May intensify fire; oxidiser.
H301 Toxic if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.

Pictogram (s)
Environment, Exclamation mark, Flame over circle, Skull and crossbones

Precautionary statement- Prevention
P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P220 Keep/Store away from clothing/combustible materials.
P221 Take any precaution to avoid mixing with combustibles. P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product. P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statement – Response
General
INGESTION
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P330 Rinse mouth.
SKIN
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse.
EYE
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/attention. OTHER
P370+P378 in case of fire: Use carbon dioxide, dry chemical, foam, water mist or water spray for extinction.
P391 Collect spillage.

Precautionary statement – Storage
P405 Store locked up.

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

SECTION 3 - COMPOSITION, INFORMATION OF INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>NAME</th>
<th>CAS</th>
<th>Proportion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium nitrite</td>
<td></td>
<td>7632-00-0</td>
<td>30-60 %</td>
</tr>
<tr>
<td>Sodium sulphate</td>
<td></td>
<td>7757-82-6</td>
<td>30-60 %</td>
</tr>
</tbody>
</table>

SECTION 4 - FIRST AID MEASURES

Inhalation
If inhaled, remove affected person from contaminated area. Keep at rest until recovered. If symptoms develop and/or persist seek medical attention.
IN CASE OF SPILLS OR LEAKS: Clean up spills immediately, observing PPE precautions. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Increase ventilation. This material should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Minimize use of water to prevent environmental contamination. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling
Toxic substance. Exposure without protection must be prevented. Avoid exposure, contact with skin and eyes. Wear overalls, impervious gloves and safety glasses. DO NOT store or use in confined spaces. Avoid breathing in dust/powder. Use in designated areas with adequate ventilation. Do not enter these areas without respiratory protection or until the atmosphere has been checked. Use approved storage containers in the work area. Prevent release of dusts into workplace air. Keep containers closed when not in use. Take precautionary measures against static discharges. Keep material away from sparks,
flames and other ignition sources. Do NOT pressurise, cut, heat or weld containers as they may contain hazardous residues. Do not smoke. 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.

**Conditions for safe storage, including any incompatibilities**

Store in a well-ventilated area away from heat and sources of ignition, out of direct sunlight and moisture. Store in suitable, labelled containers away from incompatible materials. Inspect periodically for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Maximum product temperature 40°C. Refer to AS 4326-2008 The storage and handling of oxidizing agents and AS/NZS 4452: 1997 The storage and handling of toxic substances.

*Store at <30°C*

### SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

**Occupational exposure limit values**

No exposure standards have been established for this material, however, the TWA Safe Work, Australia) exposure standards for dust not otherwise specified is 10 mg/m³. 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.

**Safe Work, Australia Exposure Standards:**

No exposure standards have been established for this material, however, the TWA Safe Work, Australia) exposure standards for dust not otherwise specified is 10 mg/m³. 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.

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.

Peak Limitation: A ceiling concentration which should not be exceeded over a measurement period which should be as short as possible but not exceeding 15 minutes.

**Biological Limit Values**

No biological limits allocated

**Appropriate engineering controls**

This substance is toxic and should be used with a local exhaust ventilation system, drawing vapours away from workers' breathing zone. Alternatively, a process enclosure system such as a fume cupboard should be employed. If the engineering controls are not sufficient to maintain concentrations of particulates below the exposure standards, suitable respiratory protection must be worn. If local exhaust ventilation is used, ensure sufficient air is replaced to compensate the air that has been removed. Refer to AS/NZS 60079.10.1:2009 Explosive atmospheres - Classification of areas - Explosive gas atmospheres, for further information concerning ventilation requirements.

**Respiratory Protection**

If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable dust/particulate 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.

**Eye Protection**

Safety glasses with side shields, goggles or full-face shield as appropriate recommended. Final choice of appropriate eye/face protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. Eye protection should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.

**Hand Protection**

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.

Body Protection
Suitable protective workwear should be worn when working with this material, e.g. cotton overalls buttoned at neck and wrist. Chemical resistant apron is recommended where large quantities are handled.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Properties</th>
<th>Description</th>
<th>Properties</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form</td>
<td>powder</td>
<td>Appearance</td>
<td>White powder</td>
</tr>
<tr>
<td>Colour</td>
<td>white</td>
<td>Odour</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not available</td>
<td>Melting Point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Not available</td>
<td>Solubility in Water</td>
<td>Soluble</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>Not available</td>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>Not available</td>
<td>Vapour Density (Air=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not available</td>
<td>Odour Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
<td>Partition Coefficient: n-octanol/water</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not available</td>
<td>Flammability</td>
<td>Oxidiser. Non-combustible, however in fire situations oxygen may be liberated and increase the intensity of the fire.</td>
</tr>
<tr>
<td>Auto-Ignition Temperature</td>
<td>Not available</td>
<td>Flammable Limits - Lower</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammable Limits - Upper</td>
<td>Not available</td>
<td></td>
<td></td>
</tr>
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</table>

SECTION 10 - STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Reactivity</th>
<th>Refer to Sec 10: Possibility of hazardous reactions...</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemical Stability</td>
<td>Stable under normal conditions of storage and handling</td>
</tr>
<tr>
<td>Conditions to Avoid</td>
<td>Moisture. Contact with combustible materials</td>
</tr>
<tr>
<td>Incompatible Materials</td>
<td>Reducing agents, acids, combustible materials, ammonium salts and cyanates</td>
</tr>
<tr>
<td>Hazardous Decomposition</td>
<td>Thermal decomposition may result in the release of toxic and/or irritating fumes including oxides of sulphur and of nitrogen.</td>
</tr>
<tr>
<td>Products Possibility of hazardous reactions</td>
<td>Reacts violently with reducing materials, ammonium salts and cyanates.</td>
</tr>
<tr>
<td>Hazardous Polymerization</td>
<td>Will not occur.</td>
</tr>
</tbody>
</table>

SECTION 11 - TOXICOLOGICAL INFORMATION

Toxicology Information
The available acute toxicity datum for this product is given below.
Acute Toxicity - Oral
Sodium nitrite:
LD50 (Rat): 157.9 mg/kg
Acute Toxicity - Inhalation
Sodium nitrite:
LC50 (Rat): 5.5 mg/m³/4H

Ingestion
Toxic if swallowed. High levels can interfere with the ability of the blood to carry oxygen causing headache, fatigue, dizziness, and a blue colour to the skin and lips (methemoglobinemia). Higher levels can cause trouble breathing, collapse and even death.

Inhalation
May cause irritation to respiratory system. Exposure to high dust concentrations may result in persistent headache, dizziness, nausea, vomiting, cyanosis, convulsions and death

Skin
Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.

Eye
Causes eye damage. Eye contact will cause stinging, blurring, tearing, severe pain and possible burns, necrosis, permanent damage and blindness.

Respiratory sensitisation
Not expected to be a respiratory sensitiser.

Skin Sensitisation
Not expected to be a skin sensitisier.

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.

Aspiration Hazard
Not expected to be an aspiration hazard.

Other Information
Prolonged or repeated exposure to this material may result in skin irritation leading to dermatitis. Inhalation may aggravate existing respiratory disorders.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity
Very toxic to aquatic organisms.

Persistence and degradability
Not available

Mobility
Not available

Bio-accumulative Potential Environmental Protection
Do not allow product to enter drains, waterways or sewers.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL CONSIDERATIONS
Do not allow into drains or watercourses or dispose of where ground or surface waters may be affected. Wastes including emptied containers are controlled wastes and should be disposed of in accordance with all applicable local and national regulations.
SECTION 14 - TRANSPORT INFORMATION

Road and Rail (Australia):
This material is classified as Dangerous Goods Division 5.1 Oxidising substances and subsidiary Class 6.1 Toxic Substance according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition). Division 5.1 Dangerous Goods are incompatible in a placard load with any of the following:
- Class 1, Explosives
- Division 2.1, Flammable Gases
- Division 2.3, Toxic Gases
- Class 3, Flammable Liquids
- Division 4.1, Flammable Solids
- Division 4.2, Spontaneously Combustible Substances
- Division 4.3, Dangerous When Wet Substances
- Some Division 5.1 Oxidising substances (Refer Table 9.2)
- Division 5.2, Organic Peroxides
- Class 6, Toxic and Infectious Substances, if the Class 6 substance is a fire risk substance
- Class 7, Radioactive Substances
- Class 8, Corrosive Substances
- Class 9, Miscellaneous Dangerous Goods, if the Class 9 substance is a fire risk substance
- Fire risk substances
- Combustible liquids
- And are incompatible with food and food packaging in any quantity.

Marine Transport (IMO/IMDG):
Marine Transport (IMO/IMDG):
Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.
UN No.: 3087
Proper Shipping Name: OXIDIZING SOLID, TOXIC, N.O.S. (CONTAINS SODIUM NITRITE)
Class: 5.1, sub 6.1 Packaging Group: III EMS No.: F-A, S-Q
Special Provision: 223, 274, 900

Air Transport (ICAO/IATA):
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. UN No.: 3087
Proper Shipping Name: OXIDIZING SOLID, TOXIC, N.O.S. (CONTAINS SODIUM NITRITE)
Class: 5.1, sub 6.1 Packaging Group: III Label: Oxidizer, Toxic
Packaging Instructions (passenger & cargo): 559 Packaging Instructions (cargo only): 563
UN Number 3087
UN proper shipping name
OXIDIZING SOLID, TOXIC, N.O.S. - (CONTAINS SODIUM NITRITE)

Transport hazard class(es) 5.1
Sub Risk 6.1
Hazchem Code 1W
Packaging Method 3.8.5.1
Packing Group III
EPG Number SB1
IERG Number 31
IMDG Marine Pollutant: yes

SECTION 15 - REGULATORY INFORMATION

Page 7 of 8
Poisons Schedule
S6
Schedule 6 chemicals are described as 'Substances with a moderate potential for causing harm, the extent of which can be reduced through the use of distinctive packaging with strong warnings and safety directions on the label'. Schedule 6 chemicals are labelled with 'Poison' (SUSMP, 2015).
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 a Scheduled Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
AICS Australia
All components of this product are listed on the Australian Inventory of Chemical Substances (AICS).

SECTION 16 - OTHER INFORMATION

DISCLAIMER: The information presented herein is based on available data from reliable sources and is correct to the best of PDS’ knowledge. PDS makes no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions.

References:
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, (GHS)


REVISED DATE: January 2019, supersedes all previous versions
REFERENCE: Revised for GHS compliance
Contact: pds@profdent.com.au

 ..........end of MSDS..........