

Classified as Hazardous according to criteria of Work Safe Australia.

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Issued By: **Thomas Grozier & Son Pty. Ltd.**

1.	<b>IDENTIFICATION OF SUBSTANCE/PREPARATION &amp; COMPANY</b>	<p>Chemical Nature: Blend of ingredients presented as an aerosol.                  Product name: <b>GROZIER TRI-SLIP 3004 DRY FILM LUBRICANT</b>                  Company name: Thomas Grozier &amp; Son Pty. Ltd.                  Address: 2/8 PRINCE WILLIAM DRIVE SEVEN HILLS 2047                  Emergency Telephone. 02 96209843 A.H. +61(0)410573635 Fax. 02 96746893                  Poisons Information Centre: Phone 13 1126 from anywhere in Australia.                  RECOMMENDED USE: Dry film lubricant for railways, mining, metal processing, metal smelting, heavy and general engineering.</p>																														
2.	<b>COMPOSITION/ INFORMATION ON INGREDIENTS</b>	<table border="1"> <thead> <tr> <th>Ingredients</th> <th>CAS No</th> <th>Conc,%</th> <th>TWA (mg/m3)</th> <th>STEL (mg/m3)</th> </tr> </thead> <tbody> <tr> <td>Propellant</td> <td>no data</td> <td>20-40</td> <td>not set</td> <td>not set</td> </tr> <tr> <td>Petroleum distillate</td> <td>64742-95-6</td> <td>30-60</td> <td>not set</td> <td>not set</td> </tr> <tr> <td>Graphite</td> <td>7782-42-5</td> <td>5-10</td> <td>3</td> <td>not set</td> </tr> <tr> <td>molybdenum disulphide</td> <td>1317-33-5</td> <td>5-10</td> <td>not set</td> <td>not set</td> </tr> <tr> <td>Other non hazardous ingredients</td> <td>secret</td> <td>to 100</td> <td>not set</td> <td>not set</td> </tr> </tbody> </table> <p>This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other nonhazardous ingredients are also possible.                  The SWA TWA exposure value is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. The STEL (Short Term Exposure Limit) is an exposure value that may be equalled (but should not be exceeded) for no longer than 15 minutes and should not be repeated more than 4 times per day. There should be at least 60 minutes between successive exposures at the STEL. The term "peak "is used when the TWA limit, because of the rapid action of the substance, should never be exceeded, even briefly.</p>	Ingredients	CAS No	Conc,%	TWA (mg/m3)	STEL (mg/m3)	Propellant	no data	20-40	not set	not set	Petroleum distillate	64742-95-6	30-60	not set	not set	Graphite	7782-42-5	5-10	3	not set	molybdenum disulphide	1317-33-5	5-10	not set	not set	Other non hazardous ingredients	secret	to 100	not set	not set
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3.	<b>HAZARDS IDENTIFICATION.</b>	<p><b>Statement of Hazardous Nature</b>                  This product is classified as: Xn, Harmful. Xi, Irritating. F+, Highly Flammable. Hazardous according to the criteria of SWA.                  Dangerous according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.  <b>SUSMP Classification:</b> None allocated.  <b>ADG Classification:</b> Class 2.1: Flammable gases.  <b>UN Number:</b> 1950, AEROSOLS</p> <div style="text-align: center;">  </div> <p><b>GHS Signal word: WARNING</b>                  Flammable aerosols Category 2                  Gases under pressure - Compressed gas                  Specific Target Organ Toxicity - Single Exposure Category 3</p> <p><b>HAZARD STATEMENT:</b>                  H223: Flammable aerosol                  H280: Contains gas under pressure; may explode if heated.                  AUH066: Repeated exposure may cause skin dryness or cracking.                  H336: May cause drowsiness or dizziness.</p> <p><b>PREVENTION</b>                  P102: Keep out of reach of children.                  P210: Keep away from heat, sparks, open flames and hot surfaces. - No smoking.                  P211: Do not spray on an open flame or other ignition source.                  P242: Use only non-sparking tools.                  P251: Pressurized container: Do not pierce or burn, even after use.                  P261: Avoid breathing fumes, mists, vapours or spray.                  P262: Do not get in eyes, on skin, or on clothing.                  P271: Use only outdoors or in a well ventilated area.                  P281: Use personal protective equipment as required.</p> <p><b>RESPONSE</b>                  P312: Call a POISON CENTRE or doctor if you feel unwell.                  P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.                  P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water.                  P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.                  P372: Explosion risk in case of fire.                  P370+P378: In case of fire, use foam, coarse water spray. Water fog or fine spray is the preferred medium for large fires.</p> <p><b>STORAGE</b>                  P402: Store in a dry place.                  P403+P235: Store in a well-ventilated place. Keep cool</p>																														

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3.	<b>HAZARDS IDENTIFICATION.</b>	<p>P410+P412: Store below 30°C, protect from direct sunlight and do not expose to temperatures exceeding 50°C.</p> <p><b>DISPOSAL</b> P501: Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service</p> <p><b>Emergency Overview</b> <b>Physical Description &amp; Colour:</b> Aerosol. Expels a fast drying black liquid. <b>Odour:</b> Characteristic odour. <b>Major Health Hazards:</b> respiratory tract irritant, repeated exposure may cause skin dryness or cracking, vapours may cause drowsiness and dizziness.</p>
4.	<b>FIRST AID MEASURES</b>	<p><b>General Information:</b> You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have this SDS with you when you call.</p> <p><b>Inhalation:</b> If irritation occurs, contact a Poisons Information Centre, or call a doctor. Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. In severe cases, symptoms of pulmonary oedema can be delayed up to 48 hours after exposure.</p> <p><b>Skin Contact:</b> Gently blot away excess liquid. Wash gently and thoroughly with water (use non-abrasive soap if necessary) for 5 minutes or until chemical is removed.</p> <p><b>Eye Contact:</b> Quickly and gently blot material from eyes. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 5 minutes or until the product is removed, while holding the eyelid(s) open. Obtain medical advice immediately if irritation occurs. Take special care if exposed person is wearing contact lenses.</p> <p><b>Ingestion:</b> If product is swallowed or gets in mouth, do NOT induce vomiting; wash mouth with water and give some water to drink. If symptoms develop, or if in doubt contact a Poisons Information Centre or a doctor.</p>
5.	<b>FIRE FIGHTING MEASURES</b>	<p><b>Fire and Explosion Hazards:</b> The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is a moderate risk of an explosion from this product if commercial quantities are involved in a fire. Firefighters should take care and appropriate precautions. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.</p> <p><b>Extinguishing Media:</b> In case of fire, use foam, coarse water spray. Water fog or fine spray is the preferred medium for large fires. Try to contain spills, minimise spillage entering drains or water courses.</p> <p><b>Fire Fighting:</b> If a significant quantity of this product is involved in a fire, call the fire brigade. There is a danger of a violent reaction or explosion if significant quantities of this product are involved in a fire. Recommended personal protective equipment is full fire kit and breathing apparatus.</p> <p><b>Flash point:</b> 4°C, Liquid phase <b>Upper Flammability Limit:</b> 12% <b>Lower Flammability Limit:</b> 2% <b>Autoignition temperature:</b> No data. <b>Flammability Class:</b> Flammable Category 2 (GHS); Highly Flammable (AS1940).</p>
6.	<b>ACCIDENTAL RELEASE MEASURES</b>	<p><b>Accidental release:</b> This product is sold in small packages, and the accidental release from one of these is not usually a cause for concern. For minor spills, clean up, rinsing to sewer and put empty container in garbage. Although no special protective clothing is normally necessary because of occasional minor contact with this product, it is good practice to wear impermeable gloves when handling chemical products. In the event of a major spill, prevent spillage from entering drains or water courses and call emergency services.</p>
7.	<b>HANDLING AND STORAGE</b>	<p><b>Precautions for safe handling</b> Flammable product. Avoid breathing vapours. Handle and open containers with care in a well-ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Do not eat, drink or smoke in contaminated areas. Electrostatic charges may be generated during transfer. Electrostatic discharge may cause fire. Ensure electrical continuity by earthing all equipment.</p> <p><b>Conditions for safe storage, including any incompatibilities</b> Bulk storage tanks should be banded. Store in a well-ventilated area, away from sunlight, ignition sources and other sources of heat. Do not store near strong oxidants.</p>

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8.	<b>EXPOSURE CONTROLS/ PERSONAL PROTECTION</b>	<p>The following Australian Standards will provide general advice regarding safety clothing and equipment: Respiratory equipment: <b>AS/NZS 1715</b>, Protective Gloves: <b>AS 2161</b>, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: <b>AS1336</b> and <b>AS/NZS 1337</b>, Occupational Protective Footwear: <b>AS/NZS2210</b>.</p> <table border="0"> <tr> <td><b>SWA Exposure Limits</b></td> <td><b>TWA (mg/m3)</b></td> <td><b>STEL (mg/m3)</b></td> </tr> <tr> <td>Graphite</td> <td>3</td> <td>not set</td> </tr> </table> <p>No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without proper containment systems.</p> <p><b>Ventilation:</b> This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.</p> <p><b>Eye Protection:</b> Eye protection such as protective glasses or goggles is recommended when this product is being used.</p> <p><b>Skin Protection:</b> You should avoid contact even with mild skin irritants. Therefore you should wear suitable impervious elbow-length gloves and facial protection when handling this product. See below for suitable material types.</p> <p><b>Protective Material Types:</b> We suggest that protective clothing be made from the following materials: rubber, PVC.</p> <p><b>Respirator:</b> Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above.</p> <p>Safety deluge showers should, if practical, be provided near to where this product is being handled commercially.</p>	<b>SWA Exposure Limits</b>	<b>TWA (mg/m3)</b>	<b>STEL (mg/m3)</b>	Graphite	3	not set
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9.	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>	<p><b>Physical Description &amp; colour:</b> Aerosol. Expels a fast drying black liquid.</p> <p><b>Odour:</b> Characteristic odour.</p> <p><b>Boiling Point:</b> Not available.</p> <p><b>Freezing/Melting Point:</b> No specific data. Liquid at normal temperatures.</p> <p><b>Volatiles:</b> No data.</p> <p><b>Vapour Pressure:</b> No data.</p> <p><b>Vapour Density:</b> No data.</p> <p><b>Specific Gravity:</b> No data.</p> <p><b>Water Solubility:</b> Insoluble.</p> <p><b>pH:</b> No data.</p> <p><b>Volatility:</b> No data.</p> <p><b>Odour Threshold:</b> No data.</p> <p><b>Evaporation Rate:</b> No data.</p> <p><b>Coeff Oil/water Distribution:</b> No data</p> <p><b>Autoignition temp:</b> No data.</p>						
10.	<b>STABILITY AND REACTIVITY</b>	<p><b>Reactivity:</b> This product is unlikely to react or decompose under normal storage conditions. However, if you have any doubts, contact the supplier for advice on shelf life properties.</p> <p><b>Conditions to Avoid:</b> Store below 30°C, protect from direct sunlight and do not expose to temperatures exceeding 50°C. Keep containers tightly closed. Containers should be kept dry. Keep containers and surrounding areas well ventilated. Keep away from sources of sparks or ignition. Any electrical equipment in the area of this product should be flame proofed.</p> <p><b>Incompatibilities:</b> acids, bases, oxidising agents.</p> <p><b>Fire Decomposition:</b> Combustion forms carbon dioxide, and if incomplete, carbon monoxide and possibly smoke. Water is also formed. May form oxides of sulfur (sulfur dioxide is a respiratory hazard) and other sulfur compounds. Most will have a foul odour. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.</p> <p><b>Polymerisation:</b> This product will not undergo polymerisation reactions.</p>						
11.	<b>TOXICOLOGICAL INFORMATION</b>	<p><b>Local Effects:</b></p> <p><b>Target Organs:</b> There is no data to hand indicating any particular target organs.</p> <p><b>Classification of Hazardous Ingredients</b></p> <table border="0"> <tr> <td>Ingredient</td> <td>Risk Phrases</td> </tr> <tr> <td>Solvent Naphtha (petroleum), Light Arom.</td> <td>No risk phrases at concentrations found in this product</td> </tr> <tr> <td> <ul style="list-style-type: none"> <li>Aspiration hazard - category 1</li> </ul> </td> <td></td> </tr> </table> <p><b>Potential Health Effects</b></p> <p><b>Inhalation:</b></p> <p><b>Short Term Exposure:</b> This product is an inhalation irritant. Symptoms may include headache, irritation of nose and throat and increased secretion of mucous in the nose and throat. Other symptoms may also become evident, but they should disappear after exposure has ceased if treatment is prompt. Intentional misuse by deliberately concentrating and inhaling contents of aerosol containers can be harmful or fatal.</p> <p><b>Long Term Exposure:</b> Vapours may cause drowsiness and dizziness.</p> <p><b>Skin Contact:</b></p> <p><b>Short Term Exposure:</b> Major health effect from this product is misuse of the aerosol function. If sprayed continuously on skin or in eyes, it can cause frostbite.</p> <p><b>Long Term Exposure:</b> Repeated exposure may cause skin dryness or cracking.</p>	Ingredient	Risk Phrases	Solvent Naphtha (petroleum), Light Arom.	No risk phrases at concentrations found in this product	<ul style="list-style-type: none"> <li>Aspiration hazard - category 1</li> </ul>	
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11.	<b>TOXICOLOGICAL INFORMATION</b>	<p><b>Eye Contact:</b>  <b>Short Term Exposure:</b> If sprayed directly in the eye, this product will irritate. If spraying is prolonged, it may cause damage through frostbite.  <b>Long Term Exposure:</b> No data for health effects associated with long term eye exposure.</p> <p><b>Ingestion:</b>  <b>Short Term Exposure:</b> Significant oral exposure is considered to be unlikely. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.  <b>Long Term Exposure:</b> No data for health effects associated with long term ingestion.</p> <p><b>Carcinogen Status:</b>  <b>SWA:</b> No significant ingredient is classified as carcinogenic by SWA.  <b>NTP:</b> No significant ingredient is classified as carcinogenic by NTP.  <b>IARC:</b> No significant ingredient is classified as carcinogenic by IARC.</p>
12.	<b>ECOLOGICAL INFORMATION</b>	Insufficient data to be sure of status.
13.	<b>DISPOSAL CONSIDERATIONS</b>	<b>Disposal:</b> Dispose of small quantities and empty containers by wrapping with paper and putting in garbage. For larger quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service. Do not puncture or incinerate aerosol cans, even when empty.
14.	<b>TRANSPORT INFORMATION</b>	<p><b>Dangerous according to Australian Dangerous Goods (ADG) Code, IATA and IMDG/IMSBC criteria.</b>  <b>UN Number:</b> 1950, AEROSOLS  <b>Hazchem Code:</b> 2YE  <b>Special Provisions:</b> 63, 190, 277  <b>Limited quantities:</b> ADG 7 specifies a Limited Quantity value of 1000mL for this class of product.  <b>Dangerous Goods Class:</b> Class 2.1: Flammable gases.  <b>Packing Group:</b> Not set  <b>Packing Instruction:</b> P003  Class 2.1 Flammable gases shall not be loaded in the same vehicle or packed in the same freight container with Classes 1 (Explosives), 3 (Flammable Liquids) (where both flammable liquids and flammable gases are in bulk), 4.1 (Flammable Solids), 4.2 (Spontaneously Combustible Substances), 4.3 (Dangerous When Wet Substances), 5.1 (Oxidising Agents), 5.2 (Organic Peroxides), and 7 (Radioactive Substances). They may however be loaded in the same vehicle or packed in the same freight container with Classes 2.2 (Non-flammable Non-Toxic gases), 3 (Flammable liquids except where both flammable liquids and flammable gases are in bulk), 6 (Toxic Substances), 8 (Corrosive Substances) 9 (Miscellaneous dangerous goods), Foodstuffs and foodstuff empties.</p>
15.	<b>REGULATORY INFORMATION</b>	<b>AICS:</b> All of the significant ingredients in this formulation are compliant with NICNAS regulations. The following ingredient: Solvent naphtha (petroleum), light arom., is mentioned (as liquid hydrocarbon) in the SUSMP.
16.	<b>OTHER INFORMATION</b>	<p>Contact Point/Person. For information on this MSDS contact:  *Robert Grozier. 61 (0) 2 96209843  *Robert Grozier. After Hours. +61(0)410573635  This SDS contains only safety-related information. For other data see product literature.</p> <p><b>Acronyms:</b>  <b>ADG Code</b> Australian Code for the Transport of Dangerous Goods by Road and Rail (7th edition)  <b>AICS</b> Australian Inventory of Chemical Substances  <b>SWA</b> Safe Work Australia, formerly ASCC and NOHSC  <b>CAS number</b> Chemical Abstracts Service Registry Number  <b>Hazchem Code</b> Emergency action code of numbers and letters that provide information to emergency services especially firefighters  <b>IARC</b> International Agency for Research on Cancer  <b>NOS</b> Not otherwise specified  <b>NTP</b> National Toxicology Program (USA)  <b>R-Phrase</b> Risk Phrase  <b>SUSMP</b> Standard for the Uniform Scheduling of Medicines &amp; Poisons  <b>UN Number</b> United Nations Number</p>

**IMPORTANT DISCLAIMER:**

The information contained herein is based on data available to Thomas Grozier & Son Pty. Ltd., from both our own technical sources and from recognized published references and is believed to be both accurate and reliable. Thomas Grozier & Son Pty. Ltd., has made no attempt to censor or conceal any aspect of the product. Since we cannot anticipate or control the many different conditions under which this information and our products may be used, each user should review these recommendations in the specific context of the intended application and confirm whether they are appropriate. It is therefore recommended that you undertake your own risk assessment in relation to your method of handling and proposed use of this product. Thomas Grozier & Son Pty. Ltd. accepts no liability whatsoever for damage or injury caused from the use of this information or of suggestions contained.