

## Section 1 - Identification of The Material and Supplier

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**Chemical nature:** Blend of lubricating ingredients presented as an aerosol.  
**Trade Name:** **Bike Shine**  
**Product Use:** Road bike detailing preparation applied by aerosol spray.  
**Creation Date:** **October, 2010**  
**This version issued:** **May, 2013** and is valid for 5 years from this date.

## Section 2 - Hazards Identification

### Statement of Hazardous Nature

This product is classified as: Xi, Irritating. T, Toxic. N, Dangerous to the environment. Hazardous according to the criteria of SWA.

Dangerous according to the Australian Dangerous Goods (ADG) Code.

**Risk Phrases:** R43, R62, R65, R67, R36/38, R48/20, R51/53. May cause sensitisation by skin contact. Possible risk of impaired fertility. Harmful: May cause lung damage if swallowed. Vapours may cause drowsiness and dizziness. Irritating to eyes and skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment.

**Safety Phrases:** S2, S9, S16, S28, S29, S33, S46, S61, S62, S24/25, S36/37. Keep out of reach of children. Keep container in a well ventilated place. Keep away from sources of ignition - No smoking. After contact with skin, wash immediately with plenty of soap and water. Do not empty into drains. Take precautionary measures against static discharges. If swallowed, contact a doctor or Poisons Information Centre immediately and show this MSDS or label. Avoid release to the environment. Refer to special instructions/Safety Data Sheets. If swallowed, do not induce vomiting: seek medical advice immediately and show this MSDS. Avoid contact with skin and eyes. Wear suitable protective clothing and gloves.

**SUSMP Classification:** None allocated.

**ADG Classification:** 2.1

**UN Number:** 1950, AEROSOLS

## Emergency Overview

**Physical Description & Colour:** clear liquid.

**Odour:** Characteristic paraffinic odour.

**Major Health Hazards:** irritating to eyes and skin, possible skin sensitiser, possible risk of impaired fertility, if aspirated, may cause lung damage, vapours may cause drowsiness and dizziness.

## Potential Health Effects

### Inhalation:

**Short Term Exposure:** Available data indicates that this product is not harmful. However product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort. Intentional misuse by deliberately concentrating and inhaling contents of aerosol containers can be harmful or fatal.

**Long Term Exposure:** Vapours may cause drowsiness and dizziness.

### Skin Contact:

**Short Term Exposure:** Classified as a potential sensitiser by skin contact. Exposure to a skin sensitiser, once sensitisation has occurred, may manifest itself as skin rash or inflammation, and in some individuals this reaction can be severe. In addition product is a skin irritant. Symptoms may include itchiness and reddening of contacted skin. Other symptoms may also become evident, but all should disappear once exposure has ceased.

**Long Term Exposure:** No data for health effects associated with long term skin exposure.

### Eye Contact:

**Short Term Exposure:** This product is an eye irritant. Symptoms may include stinging and reddening of eyes and watering which may become copious. Other symptoms may also become evident. If exposure is brief, symptoms should disappear once exposure has ceased. However, lengthy exposure or delayed treatment may cause permanent damage.

**Long Term Exposure:** No data for health effects associated with long term eye exposure.

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### Ingestion:

**Short Term Exposure:** Significant oral exposure is considered to be unlikely. Because of the low viscosity of this product, it may directly enter the lungs if swallowed, or if subsequently vomited. Once in the lungs, it is very difficult to remove and can cause severe injury or death. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.

**Long Term Exposure:** No data for health effects associated with long term ingestion.

### Carcinogen Status:

**SWA:** No significant ingredient is classified as carcinogenic by SWA.

**NTP:** No significant ingredient is classified as carcinogenic by NTP.

**IARC:** No significant ingredient is classified as carcinogenic by IARC.

## Section 3 - Composition/Information on Ingredients

| Ingredients                        | CAS No     | Conc, %    | TWA (mg/m <sup>3</sup> ) | STEL (mg/m <sup>3</sup> ) |
|------------------------------------|------------|------------|--------------------------|---------------------------|
| Hexane                             | 110-54-3   | >60        | 72                       | not set                   |
| Non hazardous silicone ingredients | various    | to 100     | not set                  | not set                   |
| Alkanes, C <sub>3-4</sub>          | 68475-59-2 | propellant | not set                  | not set                   |

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous 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.

## Section 4 - First Aid Measures

### General Information:

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 MSDS with you when you call.

**Inhalation:** No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

**Skin Contact:** Quickly and gently blot away excess liquid. Wash gently and thoroughly with warm water (use non-abrasive soap if necessary) for 10-20 minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard. If irritation persists, repeat flushing and seek medical attention.

**Eye Contact:** Quickly and gently blot material from eyes. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately. Take special care if exposed person is wearing contact lenses.

**Ingestion:** If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

## Section 5 - Fire Fighting Measures

**Fire and Explosion Hazards:** This product is classified as flammable. There is no risk of an explosion from this product under normal circumstances if it is involved in a fire. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances.

Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

**Extinguishing Media:** Water fog or fine spray is the preferred medium for large fires. Try to contain spills, minimise spillage entering drains or water courses.

**Fire Fighting:** 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.

**Flash point:** -30°C

**Upper Flammability Limit:** 7.5%

**Lower Flammability Limit:** 1.2%

**Autoignition temperature:** Min 494°C

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Flammability Class: Flammable

### Section 6 - Accidental Release Measures

**Accidental release:** 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.

### Section 7 - Handling and Storage

**Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

**Storage:** Store packages of this product in a cool place. Make sure that containers of this product are kept tightly closed. Keep containers of this product in a well ventilated area. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10. Some liquid preparations settle or separate on standing and may require stirring before use. Check packaging - there may be further storage instructions on the label.

### Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

| SWA Exposure Limits | TWA (mg/m <sup>3</sup> ) | STEL (mg/m <sup>3</sup> ) |
|---------------------|--------------------------|---------------------------|
| Hexane              | 72                       | not set                   |

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.

**Ventilation:** This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

**Eye Protection:** Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

**Skin Protection:** If you believe you may have a sensitisation to this product or any of its declared ingredients, you should prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. See below for suitable material types.

**Protective Material Types:** We suggest that protective clothing be made from the following materials: nitrile, neoprene.

**Respirator:** Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above. Otherwise, not normally necessary.

Eyebaths or eyewash stations and safety deluge showers should be provided near to where this product is being used.

### Section 9 - Physical and Chemical Properties:

|   |  |
|---|--|
| <b>Physical Description &amp; colour:</b> | clear liquid.                                    |
| <b>Odour:</b>                             | Characteristic paraffinic odour.                 |
| <b>Boiling Point:</b>                     | 62-182°C at 100kPa (liquid phase).               |
| <b>Freezing/Melting Point:</b>            | No specific data. Liquid at normal temperatures. |
| <b>Volatiles:</b>                         | Approx 60%                                       |
| <b>Vapour Pressure:</b>                   | 400kPa at 25°C (propellant).                     |
| <b>Vapour Density:</b>                    | No data.   |
| <b>Specific Gravity:</b>                  | 0.7 (liquid phase).                              |
| <b>Water Solubility:</b>                  | Insoluble.                                       |
| <b>pH:</b>                                | No data.   |
| <b>Volatility:</b>                        | No data.   |
| <b>Odour Threshold:</b>                   | No data.   |
| <b>Evaporation Rate:</b>                  | No data.   |
| <b>Coeff Oil/water Distribution:</b>      | No data  |

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Autoignition temp: Min 494°C

## Section 10 - Stability and Reactivity

**Reactivity:** 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.

**Conditions to Avoid:** This product should be kept in a cool place, preferably below 30°C. Keep containers tightly closed. Keep containers and surrounding areas well ventilated.

**Incompatibilities:** strong oxidising agents.

**Fire Decomposition:** Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen and its compounds, and under some circumstances, oxides of nitrogen. Occasionally hydrogen cyanide gas in reducing atmospheres. Water, silicon compounds. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

**Polymerisation:** Polymerisation reactions are unlikely; they are not expected to occur.

## Section 11 - Toxicological Information

**Local Effects:**

**Target Organs:** There is no data to hand indicating any particular target organs.

Hexane is a SWA Class 3 Reproductive risk, possible risk of impaired fertility.

This product may cause decreased fertility in humans.

## Classification of Hazardous Ingredients

| Ingredient | Risk Phrases                    |
|------------|---------------------------------|
| Hexane     | Conc>=20%: Xn; R62; R48/20; R38 |

## Section 12 - Ecological Information

Toxic to aquatic organisms, may cause long-term adverse effects to the aquatic environment.

## Section 13 - Disposal Considerations

**Disposal:** 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.

## Section 14 - Transport Information

**ADG Code:** 1950, AEROSOLS

**Hazchem Code:** 2YE

**Special Provisions:** 63, 190, 277

**Limited quantities:** ADG 7 specifies a Limited Quantity value of 1000mL for this class of product.

**Dangerous Goods Class:** Class 2.1: Flammable gases.

**Packaging Group:** Not set

**Packaging Method:** 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.

## Section 15 - Regulatory Information

**AICS:** All of the significant ingredients in this formulation are compliant with NICNAS regulations.

## Section 16 - Other Information

**This MSDS contains only safety-related information. For other data see product literature.**

**Acronyms:**

**ADG Code** Australian Code for the Transport of Dangerous Goods by Road and Rail (7<sup>th</sup> edition)  
**AICS** Australian Inventory of Chemical Substances

## MATERIAL SAFETY DATA SHEET

Issued by: Carlisle Tyres (Australia) Pty Ltd

Phone: 02 9820 4444

Poisons Information Centre: 13 1126 from anywhere in Australia, (0800 764 766 in New Zealand)

|                     |   |
|---------------------|---|
| <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 & Poisons  |
| <b>UN Number</b>    | United Nations Number   |

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This MSDS is prepared in accord with the SWA document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]

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Minto, NSW 2566

Phone: 02 9820 4444  
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Email: info@ctaaustralia.com.au

**Chemical nature:** Blend of isohexane and isopropanol; presented as an aerosol.  
**Trade Name:** Brake Cleaner  
**Product Use:** Road bike detailing preparation applied by aerosol spray.  
**Creation Date:** October, 2010  
**This version issued:** May, 2013 and is valid for 5 years from this date.

## Section 2 - Hazards Identification

### Statement of Hazardous Nature

This product is classified as: Xi, Irritating. T, Toxic. N, Dangerous to the environment. F+, Highly Flammable. Hazardous according to the criteria of SWA.

Dangerous according to the Australian Dangerous Goods (ADG) Code.

**Risk Phrases:** R11, R38, R65, R66, R67, R51. Highly flammable. Irritating to skin. Harmful: May cause lung damage if swallowed. Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness. Toxic to aquatic organisms.

**Safety Phrases:** S2, S9, S16, S24, S29, S33, S46, S61, S62. Keep out of reach of children. Keep container in a well ventilated place. Keep away from sources of ignition - No smoking. Avoid contact with skin. Do not empty into drains. Take precautionary measures against static discharges. If swallowed, contact a doctor or Poisons Information Centre immediately and show this MSDS or label. Avoid release to the environment. Refer to special instructions/Safety Data Sheets. If swallowed, do not induce vomiting: seek medical advice immediately and show this MSDS.

**SUSMP Classification:** None allocated.

**ADG Classification:** Class 2.1: Flammable gases.

**UN Number:** 1950, AEROSOLS

## Emergency Overview

**Physical Description & Colour:** Clear colourless liquid.

**Odour:** Mild petroleum solvent odour.

**Major Health Hazards:** irritating to eyes and skin, possible risk of impaired fertility, if aspirated, may cause lung damage, repeated exposure may cause skin dryness or cracking, vapours may cause drowsiness and dizziness.

## Potential Health Effects

### Inhalation:

**Short Term Exposure:** Available data indicates that this product is not harmful. However product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort. Intentional misuse by deliberately concentrating and inhaling contents of aerosol containers can be harmful or fatal.

**Long Term Exposure:** Vapours may cause drowsiness and dizziness.

### Skin Contact:

**Short Term Exposure:** Major health effect from this product is misuse of the aerosol function. If sprayed continuously on skin or in eyes, it can cause frostbite.

**Long Term Exposure:** Repeated exposure may cause skin dryness or cracking.

### Eye Contact:

**Short Term Exposure:** If sprayed directly in the eye, this product will irritate. If spraying is prolonged, it may cause damage through frostbite.

**Long Term Exposure:** No data for health effects associated with long term eye exposure.

### Ingestion:

**Short Term Exposure:** Significant oral exposure is considered to be unlikely. Because of the low viscosity of this product, it may directly enter the lungs if swallowed, or if subsequently vomited. Once in the lungs, it is very difficult to remove and can cause severe injury or death. However, this product may be irritating to mucous membranes but is unlikely to cause anything more than transient discomfort.

**Long Term Exposure:** No data for health effects associated with long term ingestion.

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### Carcinogen Status:

**SWA:** No significant ingredient is classified as carcinogenic by SWA.

**NTP:** No significant ingredient is classified as carcinogenic by NTP.

**IARC:** Isopropanol is Class 3 - unclassifiable as to carcinogenicity to humans.

See the IARC website for further details. A web address has not been provided as addresses frequently change.

## Section 3 - Composition/Information on Ingredients

| Ingredients               | CAS No     | Conc, %    | TWA (mg/m <sup>3</sup> ) | STEL (mg/m <sup>3</sup> ) |
|---------------------------|------------|------------|--------------------------|---------------------------|
| isohexane isomers         | various    | >60        | 1760                     | 3500                      |
| Isopropanol               | 67-63-0    | to 100     | 983                      | 1230                      |
| Alkanes, C <sub>3-4</sub> | 68475-59-2 | propellant | not set                  | not set                   |

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of other non hazardous 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.

## Section 4 - First Aid Measures

### General Information:

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 MSDS with you when you call.

**Inhalation:** No first aid measures normally required. However, if inhalation has occurred, and irritation has developed, remove to fresh air and observe until recovered. If irritation becomes painful or persists more than about 30 minutes, seek medical advice.

**Skin Contact:** Quickly and gently blot away excess liquid. Wash gently and thoroughly with warm water (use non-abrasive soap if necessary) for 10-20 minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard. If irritation persists, repeat flushing and seek medical attention.

**Eye Contact:** Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately. Take special care if exposed person is wearing contact lenses.

**Ingestion:** If swallowed, do NOT induce vomiting. Wash mouth with water and contact a Poisons Information Centre, or call a doctor.

## Section 5 - Fire Fighting Measures

**Fire and Explosion Hazards:** This product is classified as highly flammable. 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. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

**Extinguishing Media:** Suitable extinguishing media are carbon dioxide, dry chemical, foam, water fog. Water fog or fine spray is the preferred medium for large fires. Try to contain spills, minimise spillage entering drains or water courses.

**Fire Fighting:** 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.

|                                  |                |
|----------------------------------|----------------|
| <b>Flash point:</b>              | Below -1°C     |
| <b>Upper Flammability Limit:</b> | 7% (isohexane) |
| <b>Lower Flammability Limit:</b> | 1%             |
| <b>Autoignition temperature:</b> | 360°C          |
| <b>Flammability Class:</b>       | Flammable      |

## Section 6 - Accidental Release Measures

**Accidental release:** 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

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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.

## Section 7 - Handling and Storage

**Handling:** Keep exposure to this product to a minimum, and minimise the quantities kept in work areas. Check Section 8 of this MSDS for details of personal protective measures, and make sure that those measures are followed. The measures detailed below under "Storage" should be followed during handling in order to minimise risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

**Storage:** Store in a cool, well ventilated area, and make sure that surrounding electrical devices and switches are suitable. Check containers and valves periodically for leaks. If you keep more than 25kg of flammable gases, you are probably required to license the premises or notify your Dangerous Goods authority. If you have any doubts, we suggest you contact your Dangerous Goods authority in order to clarify your obligations. Check packaging - there may be further storage instructions on the label.

## Section 8 - Exposure Controls and Personal Protection

The following Australian Standards will provide general advice regarding safety clothing and equipment:

Respiratory equipment: **AS/NZS 1715**, Protective Gloves: **AS 2161**, Occupational Protective Clothing: AS/NZS 4501 set 2008, Industrial Eye Protection: **AS1336** and **AS/NZS 1337**, Occupational Protective Footwear: **AS/NZS2210**.

| SWA Exposure Limits | TWA (mg/m <sup>3</sup> ) | STEL (mg/m <sup>3</sup> ) |
|---------------------|--------------------------|---------------------------|
| isohexane isomers   | 1760                     | 3500                      |
| Isopropanol         | 983                      | 1230                      |

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.

**Ventilation:** This product should only be used in a well ventilated area. If natural ventilation is inadequate, use of a fan is suggested.

**Eye Protection:** Protective glasses or goggles should be worn when this product is being used. Failure to protect your eyes may cause them harm. Emergency eye wash facilities are also recommended in an area close to where this product is being used.

**Skin Protection:** Prevent skin contact by wearing impervious gloves, clothes and, preferably, apron. Make sure that all skin areas are covered. See below for suitable material types.

**Protective Material Types:** We suggest that protective clothing be made from the following materials: Viton, nitrile, butyl rubber, PE/EVAL, Responder.

**Respirator:** Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned above. Otherwise, not normally necessary.

Eyebaths or eyewash stations and safety deluge showers should be provided near to where this product is being used.

## Section 9 - Physical and Chemical Properties:

|   |  |
|---|--|
| <b>Physical Description &amp; colour:</b> | Clear colourless liquid.                         |
| <b>Odour:</b>                             | Mild petroleum solvent odour.                    |
| <b>Boiling Point:</b>                     | 54°C at 100kPa                                   |
| <b>Freezing/Melting Point:</b>            | No specific data. Liquid at normal temperatures. |
| <b>Volatiles:</b>                         | Completely volatile at 100°C.                    |
| <b>Vapour Pressure:</b>                   | No data.   |
| <b>Vapour Density:</b>                    | >1   |
| <b>Specific Gravity:</b>                  | No data. Expected to be about 0.70 at 20°C       |
| <b>Water Solubility:</b>                  | Partially soluble.                               |
| <b>pH:</b>                                | No data.   |
| <b>Volatility:</b>                        | No data.   |
| <b>Odour Threshold:</b>                   | No data.   |
| <b>Evaporation Rate:</b>                  | No data.   |
| <b>Coeff Oil/water Distribution:</b>      | No data  |
| <b>Autoignition temp:</b>                 | 360°C  |

## MATERIAL SAFETY DATA SHEET



## Section 10 - Stability and Reactivity

**Reactivity:** 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.

**Conditions to Avoid:** This product should be kept in a cool place, preferably below 30°C. 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.

**Incompatibilities:** strong oxidising agents.

**Fire Decomposition:** Combustion forms carbon dioxide, and if incomplete, carbon monoxide and smoke. Water is also formed. Carbon monoxide poisoning produces headache, weakness, nausea, dizziness, confusion, dimness of vision, disturbance of judgment, and unconsciousness followed by coma and death.

**Polymerisation:** This product will not undergo polymerisation reactions.

## Section 11 - Toxicological Information

**Local Effects:**

**Target Organs:** There is no data to hand indicating any particular target organs.

This product may cause decreased fertility in humans.

## Classification of Hazardous Ingredients

| Ingredient        | Risk Phrases            |
|-------------------|-------------------------|
| Isohexane isomers | Conc>=20%: Xn; R62; R38 |
| Isopropanol       | Conc>=20%: Xi; R36      |

## Section 12 - Ecological Information

This product is toxic to aquatic organisms. Insufficient data to be sure of biodegradability status. However very volatile and will rapidly evaporate; likely to degrade in air.

## Section 13 - Disposal Considerations

**Disposal:** 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.

## Section 14 - Transport Information

**ADG Code:** 1950, AEROSOLS

**Hazchem Code:** 2YE

**Special Provisions:** 63, 190, 277

**Limited quantities:** ADG 7 specifies a Limited Quantity value of 1000mL for this class of product.

**Dangerous Goods Class:** Class 2.1: Flammable gases.

**Packaging Group:** Not set

**Packaging Method:** 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.

## Section 15 - Regulatory Information

**AICS:** All of the significant ingredients in this formulation are compliant with NICNAS regulations.

The following ingredient: isohexane isomers (a liquid hydrocarbon), is mentioned in the SUSMP.

## Section 16 - Other Information

This MSDS contains only safety-related information. For other data see product literature.

**Acronyms:**

**ADG Code** Australian Code for the Transport of Dangerous Goods by Road and Rail (7<sup>th</sup> edition)

**AICS** Australian Inventory of Chemical Substances

### MATERIAL SAFETY DATA SHEET

Issued by: Carlisle Tyres (Australia) Pty Ltd

Phone: 02 9820 4444

Poisons Information Centre: 13 1126 from anywhere in Australia, (0800 764 766 in New Zealand)

|                     |   |
|---------------------|---|
| <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 & Poisons  |
| <b>UN Number</b>    | United Nations Number   |

THIS MSDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS MSDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS. OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

Please read all labels carefully before using product.

This MSDS is prepared in accord with the SWA document "National Code of Practice for the Preparation of Material Safety Data Sheets" 2nd Edition [NOHSC:2011(2003)]

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<http://www.kilford.com.au/> Phone (02)9251 4532

## MATERIAL SAFETY DATA SHEET

# Material Safety Data Sheet

PAGE 1

Date of issue: August 03 issued by: Moorebank Aerosol  
Product name: **CTA Dirt Bike Chain Oil (aerosol)**

Classified as **hazardous** according to criteria of NOHSC

## COMPANY DETAILS

### COMPANY:

|                 |  |  |
|-----------------|--|--|
| <b>ADDRESS:</b> | Moorebank Aerosol Fillers<br>11 Cunningham Street<br>Moorebank NSW 2170<br>Australia | Carlisle Tyres (Australia) Pty Ltd<br>7 Nelson Ave<br>Padstow, NSW 2211<br>Australia |
|-----------------|--|--|

### EMERGENCY TELEPHONE: 000

|                             |  |  |
|-----------------------------|--|--|
| <b>BUSINESS TELEPHONE:</b>  | Moorebank Aerosol<br>(02) 9601 7744  | Carlisle Tyres (Australia) Pty Ltd<br>(02) 9790 3187                   |
| <b>BUSINESS HOURS ONLY:</b> | 7AM – 4PM (E.S.T.)   |  |
| <b>FAX:</b>                 | (02) 9601 6515   | (02) 9793 9113   |
| <b>EMAIL:</b>               | <a href="mailto:sales@aerosolfillers.com.au">sales@aerosolfillers.com.au</a> | <a href="mailto:info@carlisleaust.com.au">info@carlisleaust.com.au</a> |

### OTHER INFORMATION: A.B.N. 44 000 211 254

Users should verify the currency of this data sheet if more than 5 years old.  
The information contained in this material safety data sheet is believed to be accurate on the date of issue and in accordance with the information available to us. Persons dealing with products referred to in this MSDS do so at their own risk. We accept no liability whatsoever for damage or injury however caused arising from use of this information or of suggestions contained herein.

## IDENTIFICATION

|                             |  |
|-----------------------------|--|
| <b>PRODUCT NAME</b>         | CTA Dirt Bike Chain Oil (aerosol)                  |
| <b>PROPER SHIPPING NAME</b> | Aerosol  |
| <b>OTHER NAMES</b>          | not available                                      |
| <b>UN CLASS</b>             | 1950   |
| <b>DG CLASS</b>             | 2.1  |
| <b>SUB RISK</b>             | nil  |
| <b>HAZCHEM CODE</b>         | 2[Y]E  |
| <b>POISONS SCHEDULE</b>     | S5   |
| <b>PRODUCT USE</b>          | Dirt bike chain lubricant applied by aerosol spray |

## PHYSICAL DATA

|                            |   |
|----------------------------|---|
| <b>APPEARANCE</b>          | clear dark blue liquid with typical paraffinic odour (liquid concentrate) |
| <b>BOILING POINT</b>       | between 62° to 182°C (for liquid concentrate)                             |
| <b>VAPOUR PRESSURE</b>     | 400Kpa @ 25°C (propane/butane blend propellant)                           |
| <b>SPECIFIC GRAVITY</b>    | 0.70(for liquid concentrate) water = 1.000                                |
| <b>FLASH POINT</b>         | -30°C (propane/butane blend propellant)                                   |
| <b>FLAMMABILITY LIMITS</b> | 1.2% to 7.5% in air (v/v) (liquid solvent)                                |
| <b>SOLUBILITY IN WATER</b> | not soluble (for liquid concentrate)                                      |

CONTINUED ON NEXT PAGE

# Material Safety Data Sheet PAGE 2

Date of issue: August 03 issued by: Moorebank Aerosol  
Product name: **CTA Dirt Bike Chain Oil (aerosol)**

**Classified as hazardous according to criteria of NOHSC**

## OTHER PROPERTIES

**AUTOIGNITION TEMPERATURE** 494°C TO 600°C (propane/butane blend propellant)  
**Percent volatiles** 60%

## INGREDIENTS

| <u>NAME</u>  | <u>CAS</u>   | <u>PROPORTION</u> |
|--|--------------|-------------------|
| N-HEXANE   | 110-54-3     | 30-60%            |
| PROPANE  | 74-98-6      | 10-30%            |
| BUTANE   | 68513-65-5   | 10-30%            |
| SUBSTITUTED THIAZDIAZOLE   | CONFIDENTIAL | <2%               |
| ALKYL SULFIDE  | CONFIDENTIAL | <2%               |
| OTHER INGREDIENTS CLASSIFIED NON-HAZARDOUS ACCORDING TO WORKSAFE AUST CRITERIA |              |                   |
| Not required   |              | 30-60%            |

## HEALTH HAZARD INFORMATION

### HAZARD CATEGORY

|    |                               |
|----|-------------------------------|
| Xn | Harmful                       |
| Xi | Irritant                      |
| F  | Flammable                     |
| N  | Dangerous for the Environment |

### RISK PHASES

|        |   |
|--------|---|
| R11    | Highly flammable.   |
| R38    | Irritating to skin.   |
| R43    | May cause sensitisation by skin contact.  |
| R62    | Possible risk of impaired fertility.  |
| R65    | Harmful: may cause lung damage if swallowed.  |
| R67    | Vapours may cause drowsiness and dizziness  |
| R48/20 | Harmful: danger of serious damage to health by prolonged exposure through inhalation.       |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

## HEALTH EFFECTS

### ACUTE

|           |  |
|-----------|--|
| SWALLOWED | Harmful: may cause lung damage if swallowed. Ingestion of this product may irritate the gastric tract causing nausea and vomiting. Tends to break into a foam if the patient vomits. Aspiration into the lungs may lead to chemical pneumonitis. |
| EYE       | May cause eye irritation, tearing, stinging, blurred vision, and redness.  |
| SKIN      | May cause redness, itching and irritation. May cause sensitisation by skin contact. Prolonged or repeated skin contact may cause defatting leading to dermatitis.  |
| INHALED   | Inhalation may cause irritation to the respiratory system.   |

CONTINUED ON NEXT PAGE

# Material Safety Data Sheet PAGE 3

Date of issue: August 03

issued by: Moorebank Aerosol

Product name: **CTA Dirt Bike Chain Oil (aerosol)**

---

## Classified as hazardous according to criteria of NOHSC

### CHRONIC

Possible risk of impaired fertility. It is important to recognise that hexane is classified as a Category 3 SUBSTANCES TOXIC TO REPRODUCTION according to National Occupational Health And Safety Commission (NOHSC). A substance is included in Category 3 generally on the basis of results in appropriate animal studies which provide sufficient evidence to cause a strong suspicion of impaired fertility in the absence of toxic effects, or evidence of impaired fertility occurring at around the same dose levels as other toxic effects, but which is not a secondary non-specific consequence of the other toxic effects, but where the evidence is insufficient to place the substance in Category 2.

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Overexposure by inhalation may have adverse effects on the reproductive system.

Prolonged inhalation may cause central nervous system depression with symptoms including dizziness, drowsiness, nausea and headaches. Prolonged inhalation of vapours may cause somnolence (state of drowsiness; sleepiness) and narcosis. Repeated inhalation or dermal exposure to n-hexane can cause peripheral neuropathy in exposed individuals. Recovery is not immediate on cessation of exposure, and the effects may progress for 2 - 3 months. Final recovery may take more than a year and may not necessarily be complete, depending on the severity of exposure. These effects are associated with n-hexane not the other hexane isomers. Concurrent exposure to n-hexane and methyl ethyl ketone (MEK) will accelerate the onset of n-hexane induced nerve damage, although MEK alone will not cause such damage.

Prolonged or repeated skin contact may cause defatting leading to dermatitis.

---

### **FIRST AID**

---

|           |  |
|-----------|--|
| SWALLOWED | Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 240 to 300mL (8 to 10 oz.) of water. If vomiting occurs naturally, rinse mouth and repeat administration of water. Obtain medical attention immediately. |
| EYE       | Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes, by the clock, holding the eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Obtain medical attention immediately.   |
| SKIN      | Remove contaminated clothing, shoes and leather goods. As quickly as possible, flush contaminated area with lukewarm, gently running water for at least 20 minutes, by the clock. If irritation persists, repeat flushing. Obtain medical attention immediately. Completely decontaminate clothing, shoes and leather goods before re-use, or discard.     |
| INHALED   | If symptoms are experienced, remove source of contamination or move victim to fresh air. Obtain medical attention immediately.   |

CONTINUED ON NEXT PAGE

# Material Safety Data Sheet PAGE 4

Date of issue: August 03

issued by: Moorebank Aerosol

Product name: **CTA Dirt Bike Chain Oil (aerosol)**

---

**Classified as hazardous according to criteria of NOHSC**

---

## ADVICE TO DOCTOR

---

ADVICE TO DOCTOR    Treat symptomatically. Care must be taken when performing gastric lavage due to the aspiration hazard associated with the product.

---

## PRECAUTIONS FOR USE

---

EXPOSURE LIMITS    No exposure standards have been established for this material. Exposure standards recommended by Worksafe Australia for some ingredients are as follows:

|          | TWA (TIME WEIGHTED AVERAGE) |           |
|----------|-----------------------------|-----------|
|          | mg/m3                       | ppm       |
| PROPANE  |                             | ASPHYXIAN |
| BUTANE   |                             | 800       |
| N-HEXANE | 176                         | 50        |

ENGINEERING CONTROLS    Use in well ventilated areas. Vapour is heavier than air and will tend to accumulate in hollows or sumps. DO NOT enter confined spaces where vapours may have collected.

---

## PERSONAL PROTECTION

---

RESPIRATOR TYPE    Where ventilation is not adequate, respiratory protection may be required. An approved organic vapour full facepiece respirator with replaceable canister complying with AS/NZS 1716 and AS/NZS 1715 is recommended.

EYE PROTECTION    Safety glasses or chemical goggles. Failure to do so may result in eye damage if an accident occurs. Consult AS 1336 & AS/NZ 1337 for information about eye protection

GLOVE TYPE    Nitrile or neoprene gloves. For help in selecting suitable gloves consult AS 2161

CLOTHING    Overalls or similar protective clothing. Consult AS 2919 for advice

Always wash hands before smoking, eating, drinking, or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

---

## FLAMMABILITY

---

- FIRE HAZARDS
- Heat or damage to containers may release flammable gases
  - Containers will explode when heated – ruptured containers will rocket
  - Released gases may form explosive mixtures with air in confined spaces.
  - Released gases may travel to source of ignition and flash back.
  - Fire may produce irritating, poisonous and/or corrosive gases.

CONTINUED ON NEXT PAGE

# Material Safety Data Sheet

PAGE 5

Date of issue: August 03

issued by: Moorebank Aerosol

Product name: **CTA Dirt Bike Chain Oil (aerosol)**

**Classified as hazardous according to criteria of NOHSC**

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## SAFE HANDLING INFORMATION

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### STORAGE INCOMPATIBILITY

Avoid storage with oxidisers

### STORAGE REQUIREMENTS

- Store in original containers in approved flameproof area
- DO NOT store in pits, depressions, basements or areas where vapours may be trapped
- No smoking, naked lights, heat or ignition sources.
- Keep containers securely sealed. Contents under pressure
- Store away from incompatible materials.
- Store in a cool, dry, well ventilated area in an upright position out of direct sunlight
- Avoid storage at temperatures higher than 40°C
- Protect containers against physical damage and check regularly for leaks

### TRANSPORTATION

UN 1950

#### CLASS 2.1

- Flammable gases shall not be loaded in the same vehicle or packed in the same freight container with:
  - Class 1 explosives
  - Class 3 flammable liquids (where both flammable liquids and gases are in bulk)
  - Class 4.1 flammable solids
  - Class 4.2 spontaneously combustible substances
  - Class 4.3 dangerous when wet substances
  - Class 5.1 oxidising agents
  - Class 5.2 organic peroxides
  - Class 7 radioactive substances

---

## SPILL OR LEAK

---

Eliminate all ignition sources (no smoking, flares, sparks or flames) within at least 15m. Isolate area until gas has dispersed. All equipment used when handling the product must be earthed. Restrict access to area until completion of clean up. Ensure clean up is conducted by trained personnel only. Wear protective clothing including facemask, face shield and gauntlets. Ventilate the area. Prevent material from entering sewers or confined spaces. Stop or reduce leak if safe to do so. Contain spill with earth, sand or inert absorbent material. Small spills of solution: soak up with absorbent material. Put material in suitable, covered, labelled containers. Flush area with water preventing runoff entering drains. Large spills: contact fire and emergency services for advice.  
**Disposal:** review federal, state and local government requirements prior to disposal.

CONTINUED ON NEXT PAGE

# Material Safety Data Sheet

PAGE 6

Date of issue: August 03

issued by: Moorebank Aerosol

Product name: **CTA Dirt Bike Chain Oil (aerosol)**

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Classified as **hazardous** according to criteria of NOHSC

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## **FIRE/EXPLOSION HAZARDS**

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### **HAZARDS**

- Vapour is highly flammable
- Severe fire hazard when exposed to heat or flame
- Vapour forms explosive mixture with air
- Vapour may travel considerable distance to source of ignition.
- Heating may cause expansion with violent container rupture.
- Aerosol cans may explode on exposure to naked flames
- Rupturing containers may rocket and scatter burning materials
- Hazards may not be restricted to pressure effects
- Organic chemicals may form flammable dust clouds in air; will burn if involved in fire.
- May emit acrid, poisonous or corrosive fumes.
- On combustion, may emit toxic fumes of carbon monoxide (CO)
- Other combustion products include carbon dioxide (CO<sub>2</sub>)

### **EMERGENCY RESPONSE**

#### Small fire

- Use water spray, dry chemical or CO<sub>2</sub>

#### Large fire

- Use water spray and fog
- Fight fire from protected position or use unmanned hose holders or monitor nozzles.
- If safe to do so, move undamaged containers from fire area – Do not approach hot containers
- Cool containers with water before handling
- If impossible to extinguish fire, protect surroundings, withdraw from area and allow fire to burn.

---

## **CONTACT POINTS**

---

|   |             |                     |
|---|-------------|---------------------|
| <b>POLICE AND FIRE BRIGADE:</b>             | <b>DIAL</b> | <b>000</b>          |
| <b>FOR EMERGENCY RESPONSE:</b>              | <b>DIAL</b> | <b>1800 635 526</b> |
| <b>NATIONAL POISONS INFORMATION CENTRE:</b> | <b>DIAL</b> | <b>13 11 26</b>     |

DATE OF PREPARATION: 1 August 2003

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END OF REPORT

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# Material Safety Data Sheet

PAGE 7

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Date of issue: August 03

issued by: Moorebank Aerosol

Product name: **CTA Dirt Bike Chain Oil (aerosol)**

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Classified as hazardous according to criteria of NOHSC

# Material Safety Data Sheet

PAGE 8

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Date of issue: August 03

issued by: Moorebank Aerosol

Product name: **CTA Dirt Bike Chain Oil (aerosol)**

---

Classified as hazardous according to criteria of NOHSC

# Material Safety Data Sheet

PAGE 1

Date of issue: August 03

issued by: Moorebank Aerosol

Product name: **CTA Road Bike Chain Oil (aerosol)**

Classified as **hazardous** according to criteria of NOHSC

## COMPANY DETAILS

### COMPANY:

Moorebank Aerosol Fillers  
11 Cunningham Street  
Moorebank NSW 2170  
Australia

Carlisle Tyres (Australia) Pty Ltd  
7 Nelson Ave  
Padstow, NSW 2211  
Australia

### ADDRESS:

### EMERGENCY TELEPHONE: 000

Moorebank Aerosol

Carlisle Tyres (Australia) Pty Ltd

### BUSINESS TELEPHONE:

(02) 9601 7744

(02) 9790 3187

### BUSINESS HOURS ONLY:

7AM – 4PM (E.S.T.)

### FAX:

(02) 9601 6515

(02) 9793 9113

### EMAIL:

[sales@aerosolfillers.com.au](mailto:sales@aerosolfillers.com.au)

[info@carlisleaust.com.au](mailto:info@carlisleaust.com.au)

### OTHER INFORMATION:

A.B.N. 44 000 211 254

Users should verify the currency of this data sheet if more than 5 years old.

The information contained in this material safety data sheet is believed to be accurate on the date of issue and in accordance with the information available to us. Persons dealing with products referred to in this MSDS do so at their own risk. We accept no liability whatsoever for damage or injury however caused arising from use of this information or of suggestions contained herein.

## IDENTIFICATION

**PRODUCT NAME** CTA Road Bike Chain Oil (aerosol)  
**PROPER SHIPPING NAME** Aerosol  
**OTHER NAMES** not available  
**UN CLASS** 1950  
**DG CLASS** 2.1  
**SUB RISK** nil  
**HAZCHEM CODE** 2[Y]E  
**POISONS SCHEDULE** S5  
**PRODUCT USE** Road bike chain lubricant applied by aerosol spray

## PHYSICAL DATA

**APPEARANCE** clear brown liquid with typical paraffinic odour (liquid concentrate)  
**BOILING POINT** between 62° to 182°C (for liquid concentrate)  
**VAPOUR PRESSURE** 400Kpa @ 25°C (propane/butane blend propellant)  
**SPECIFIC GRAVITY** 0.70(for liquid concentrate) water = 1.000  
**FLASH POINT** -30°C (propane/butane blend propellant)  
**FLAMMABILITY LIMITS** 1.2% to 7.5% in air (v/v) (liquid solvent)  
**SOLUBILITY IN WATER** not soluble (for liquid concentrate)

CONTINUED ON NEXT PAGE

# Material Safety Data Sheet PAGE 2

Date of issue: August 03 issued by: Moorebank Aerosol  
Product name: **CTA Road Bike Chain Oil (aerosol)**

**Classified as hazardous according to criteria of NOHSC**

## OTHER PROPERTIES

**AUTOIGNITION TEMPERATURE** 494°C TO 600°C (propane/butane blend propellant)  
**Percent volatiles** 60%

## INGREDIENTS

| <u>NAME</u>  | <u>CAS</u>   | <u>PROPORTION</u> |
|--|--------------|-------------------|
| N-HEXANE   | 110-54-3     | 30-60%            |
| PROPANE  | 74-98-6      | 10-30%            |
| BUTANE   | 68513-65-5   | 10-30%            |
| SUBSTITUTED THIAZDIAZOLE   | CONFIDENTIAL | <2%               |
| ALKYL SULFIDE  | CONFIDENTIAL | <2%               |
| OTHER INGREDIENTS CLASSIFIED NON-HAZARDOUS ACCORDING TO NOHSC CRITERIA | Not required | 30-60%            |

## HEALTH HAZARD INFORMATION

### HAZARD CATEGORY

|    |                               |
|----|-------------------------------|
| Xn | Harmful                       |
| Xi | Irritant                      |
| F  | Flammable                     |
| N  | Dangerous for the Environment |

### RISK PHASES

|        |   |
|--------|---|
| R11    | Highly flammable.   |
| R38    | Irritating to skin.   |
| R43    | May cause sensitisation by skin contact.  |
| R62    | Possible risk of impaired fertility.  |
| R65    | Harmful: may cause lung damage if swallowed.  |
| R67    | Vapours may cause drowsiness and dizziness  |
| R48/20 | Harmful: danger of serious damage to health by prolonged exposure through inhalation.       |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |

## HEALTH EFFECTS

### ACUTE

|           |  |
|-----------|--|
| SWALLOWED | Harmful: may cause lung damage if swallowed. Ingestion of this product may irritate the gastric tract causing nausea and vomiting. Tends to break into a foam if the patient vomits. Aspiration into the lungs may lead to chemical pneumonitis. |
| EYE       | May cause eye irritation, tearing, stinging, blurred vision, and redness.  |
| SKIN      | May cause redness, itching and irritation. May cause sensitisation by skin contact. Prolonged or repeated skin contact may cause defatting leading to dermatitis.  |
| INHALED   | Inhalation may cause irritation to the respiratory system.   |

CONTINUED ON NEXT PAGE

# Material Safety Data Sheet PAGE 3

Date of issue: August 03

issued by: Moorebank Aerosol

Product name: **CTA Road Bike Chain Oil (aerosol)**

---

## Classified as hazardous according to criteria of NOHSC

### CHRONIC

Possible risk of impaired fertility. It is important to recognise that hexane is classified as a Category 3 SUBSTANCES TOXIC TO REPRODUCTION according to National Occupational Health And Safety Commission (NOHSC). A substance is included in Category 3 generally on the basis of results in appropriate animal studies which provide sufficient evidence to cause a strong suspicion of impaired fertility in the absence of toxic effects, or evidence of impaired fertility occurring at around the same dose levels as other toxic effects, but which is not a secondary non-specific consequence of the other toxic effects, but where the evidence is insufficient to place the substance in Category 2.

Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Overexposure by inhalation may have adverse effects on the reproductive system.

Prolonged inhalation may cause central nervous system depression with symptoms including dizziness, drowsiness, nausea and headaches. Prolonged inhalation of vapours may cause somnolence (state of drowsiness; sleepiness) and narcosis. Repeated inhalation or dermal exposure to n-hexane can cause peripheral neuropathy in exposed individuals. Recovery is not immediate on cessation of exposure, and the effects may progress for 2 - 3 months. Final recovery may take more than a year and may not necessarily be complete, depending on the severity of exposure. These effects are associated with n-hexane not the other hexane isomers. Concurrent exposure to n-hexane and methyl ethyl ketone (MEK) will accelerate the onset of n-hexane induced nerve damage, although MEK alone will not cause such damage.

Prolonged or repeated skin contact may cause defatting leading to dermatitis.

---

### **FIRST AID**

---

|           |  |
|-----------|--|
| SWALLOWED | Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. DO NOT INDUCE VOMITING. Have victim drink 240 to 300mL (8 to 10 oz.) of water. If vomiting occurs naturally, rinse mouth and repeat administration of water. Obtain medical attention immediately. |
| EYE       | Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes, by the clock, holding the eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Obtain medical attention immediately.   |
| SKIN      | Remove contaminated clothing, shoes and leather goods. As quickly as possible, flush contaminated area with lukewarm, gently running water for at least 20 minutes, by the clock. If irritation persists, repeat flushing. Obtain medical attention immediately. Completely decontaminate clothing, shoes and leather goods before re-use, or discard.     |
| INHALED   | If symptoms are experienced, remove source of contamination or move victim to fresh air. Obtain medical attention immediately.   |

CONTINUED ON NEXT PAGE

# Material Safety Data Sheet PAGE 4

Date of issue: August 03

issued by: Moorebank Aerosol

Product name: **CTA Road Bike Chain Oil (aerosol)**

---

**Classified as hazardous according to criteria of NOHSC**

---

## ADVICE TO DOCTOR

---

ADVICE TO DOCTOR    Treat symptomatically. Care must be taken when performing gastric lavage due to the aspiration hazard associated with the product.

---

## PRECAUTIONS FOR USE

---

EXPOSURE LIMITS    No exposure standards have been established for this material. Exposure standards recommended by Worksafe Australia for some ingredients are as follows:

|          | TWA (TIME WEIGHTED AVERAGE) |           |
|----------|-----------------------------|-----------|
|          | mg/m3                       | ppm       |
| PROPANE  |                             | ASPHYXIAN |
| BUTANE   |                             | 800       |
| N-HEXANE | 176                         | 50        |

ENGINEERING CONTROLS    Use in well ventilated areas. Vapour is heavier than air and will tend to accumulate in hollows or sumps. DO NOT enter confined spaces where vapours may have collected.

---

## PERSONAL PROTECTION

---

RESPIRATOR TYPE    Where ventilation is not adequate, respiratory protection may be required. An approved organic vapour full facepiece respirator with replaceable canister complying with AS/NZS 1716 and AS/NZS 1715 is recommended.

EYE PROTECTION    Safety glasses or chemical goggles. Failure to do so may result in eye damage if an accident occurs. Consult AS 1336 & AS/NZ 1337 for information about eye protection

GLOVE TYPE    Nitrile or neoprene gloves. For help in selecting suitable gloves consult AS 2161

CLOTHING    Overalls or similar protective clothing. Consult AS 2919 for advice

Always wash hands before smoking, eating, drinking, or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

---

## FLAMMABILITY

---

- FIRE HAZARDS
- Heat or damage to containers may release flammable gases
  - Containers will explode when heated – ruptured containers will rocket
  - Released gases may form explosive mixtures with air in confined spaces.
  - Released gases may travel to source of ignition and flash back.
  - Fire may produce irritating, poisonous and/or corrosive gases.

CONTINUED ON NEXT PAGE

# Material Safety Data Sheet PAGE 5

Date of issue: August 03

issued by: Moorebank Aerosol

Product name: **CTA Road Bike Chain Oil (aerosol)**

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**Classified as hazardous according to criteria of NOHSC**

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## **SAFE HANDLING INFORMATION**

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### STORAGE INCOMPATIBILITY

Avoid storage with oxidisers

### STORAGE REQUIREMENTS

- Store in original containers in approved flameproof area
- DO NOT store in pits, depressions, basements or areas where vapours may be trapped
- No smoking, naked lights, heat or ignition sources.
- Keep containers securely sealed. Contents under pressure
- Store away from incompatible materials.
- Store in a cool, dry, well ventilated area in an upright position out of direct sunlight
- Avoid storage at temperatures higher than 40°C
- Protect containers against physical damage and check regularly for leaks

### TRANSPORTATION

UN 1950

#### CLASS 2.1

- Flammable gases shall not be loaded in the same vehicle or packed in the same freight container with:
  - Class 1 explosives
  - Class 3 flammable liquids (where both flammable liquids and gases are in bulk)
  - Class 4.1 flammable solids
  - Class 4.2 spontaneously combustible substances
  - Class 4.3 dangerous when wet substances
  - Class 5.1 oxidising agents
  - Class 5.2 organic peroxides
  - Class 7 radioactive substances

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## **SPILL OR LEAK**

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Eliminate all ignition sources (no smoking, flares, sparks or flames) within at least 15m. Isolate area until gas has dispersed. All equipment used when handling the product must be earthed. Restrict access to area until completion of clean up. Ensure clean up is conducted by trained personnel only. Wear protective clothing including facemask, face shield and gauntlets. Ventilate the area. Prevent material from entering sewers or confined spaces. Stop or reduce leak if safe to do so. Contain spill with earth, sand or inert absorbent material. Small spills of solution: soak up with absorbent material. Put material in suitable, covered, labelled containers. Flush area with water preventing runoff entering drains. Large spills: contact fire and emergency services for advice.  
**Disposal:** review federal, state and local government requirements prior to disposal.

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## **FIRE/EXPLOSION HAZARDS**

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### **HAZARDS**

- Vapour is highly flammable
- Severe fire hazard when exposed to heat or flame
- Vapour forms explosive mixture with air
- Vapour may travel considerable distance to source of ignition.
- Heating may cause expansion with violent container rupture.
- Aerosol cans may explode on exposure to naked flames
- Rupturing containers may rocket and scatter burning materials
- Hazards may not be restricted to pressure effects
- Organic chemicals may form flammable dust clouds in air; will burn if involved in fire.
- May emit acrid, poisonous or corrosive fumes.
- On combustion, may emit toxic fumes of carbon monoxide (CO)
- Other combustion products include carbon dioxide (CO<sub>2</sub>)

### **EMERGENCY RESPONSE**

#### Small fire

- Use water spray, dry chemical or CO<sub>2</sub>

#### Large fire

- Use water spray and fog
- Fight fire from protected position or use unmanned hose holders or monitor nozzles.
- If safe to do so, move undamaged containers from fire area – Do not approach hot containers
- Cool containers with water before handling
- If impossible to extinguish fire, protect surroundings, withdraw from area and allow fire to burn.

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## **CONTACT POINTS**

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|   |             |                     |
|---|-------------|---------------------|
| <b>POLICE AND FIRE BRIGADE:</b>             | <b>DIAL</b> | <b>000</b>          |
| <b>FOR EMERGENCY RESPONSE:</b>              | <b>DIAL</b> | <b>1800 635 526</b> |
| <b>NATIONAL POISONS INFORMATION CENTRE:</b> | <b>DIAL</b> | <b>13 11 26</b>     |

DATE OF PREPARATION: 1 August 2003

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END OF REPORT

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