

MATERIAL SAFETY DATA SHEET

AUSOIL PTY LTD

Product: **AUSOIL 23 EC**

Date of Issue: JUNE 2011

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SECTION 1 – STATEMENT OF CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER: AUSOIL Pty Ltd
ADDRESS: 386 North Creek Road , LENNOX HEAD. NSW 2478 Australia
Trade Name: **AUSOIL 23 EC**
TELEPHONE: +612 66874 162 **FAX:** +612 8569 0611
AH EMERGENCY TELEPHONE: 13 1126 in Australia **ABN:** 86 091 472 258
Substance: Tea Tree Water **Product Use:** Aerial spray of crops
Creation Date: JUNE 2011 **Revision Date:** JUNE 2012
Product Code: AUSOIL 23 EC

SECTION 2 – HAZARDS IDENTIFICATION

This product is **NOT classified as HAZARDOUS** according to criteria of the National Occupational Health and Safety Commission Australia. This product is **NOT classified as Dangerous Goods** according to the Australian Dangerous Goods (ADG) Code. This product is **NOT classified as a Scheduled Poison** according to the SUSDP.

Approved Criteria Not hazardous

Classification

| | | | |
|-----------------------------|----------------|----------------------------|----------------|
| UN Number | none allocated | ADG Classification | none allocated |
| Shipping Name | none allocated | ADG Subsidiary Risk | none allocated |
| Hazchem Code | none allocated | Packing Group | none allocated |
| SUSDP Classification | none allocated | | |

EMERGENCY OVERVIEW

| | | | |
|-----------------------------|----------------------|------------------|----------------|
| Colour | Clear to translucent | Odour | Fragrant |
| Physical Description | Soluble plant oil | Viscosity | Viscous liquid |
| Major Health Hazards | None known | | |

SECTION 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredients determined not to be hazardous are present in concentrations that do not exceed the relevant cut-off concentrations as found from NOHSC publication "List of Designated Hazardous Substances" or have been found NOT to meet the criteria of a hazardous substance as defined in the NOHSC publication "Approved Criteria for Classifying Hazardous Substances".

Ingredients:

| | CAS Number: | Proportion: | Exposure Standards TWA | Exposure Standards STEL |
|---------------------------------------|--------------------|--------------------|-------------------------------|--------------------------------|
| Tea tree oil (Melaleuca alternifolia) | 68647-73-4 | 23% w/w | not set | not set |
| Emulsifier(Natural) | 61791-12-6 | 18% w/w | not set | not set |
| Water | 7732-18-5 | 59% w/w | not set | not set |

The **TWA** exposure value is the Time Weighted 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 should not be exceeded for more than 15 minutes and should not be repeated for 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

Scheduled Poisons Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons. (Phone Australia 131126 or New Zealand 03 474 7000).

First Aid Facilities Normal washroom facilities.

Skin contact Wash skin with water. Seek medical advice (e.g. doctor) if irritation, burning or redness develops.

Eye contact Immediately irrigate with copious quantities of water for at least 20 minutes. Eyelids to be held open. Seek medical advice (e.g. ophthalmologist).

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| | |
|--------------------------------------|--|
| Ingestion | Do NOT induce vomiting. Do NOT attempt to give anything by mouth to an unconscious person. Rinse mouth thoroughly with water immediately. Give water to drink. If vomiting occurs, give further water to achieve effective dilution. Seek medical advice (e.g. doctor). |
| Inhalation | Remove victim to fresh air away from exposure. Allow patient to assume most comfortable position, keep warm and to rest. Seek immediate medical advice (e.g. doctor). |
| Advice to Doctor | Treat symptomatically. All treatments should be based on observed signs and symptoms of distress of the patient. Poisons Information Centre in each Australian State capital city or in Christchurch, New Zealand can provide additional assistance for scheduled poisons. |
| Aggravated Medical Conditions | None known. |

SECTION 5 – FIRE FIGHTING MEASURES

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| Fire and Explosion Hazards | Water based. If involved in a fire will emit toxic fumes. |
| Extinguishing Media | Use carbon dioxide (CO ₂) fire extinguisher, water fog or fine water spray. |
| Fire Fighting | Keep containers exposed to extreme heat cool with water spray. Fire fighters to wear self-contained breathing apparatus if risk of exposure to products of combustion or decomposition. Evacuate area - move upwind of fire. |
| Flash Point | Not combustible. |

SECTION 6 – ACCIDENTAL RELEASE MEASURES

| | |
|-----------------------------|--|
| Emergency Procedures | No HAZCHEM code. |
| Occupational Release | Minor spills do not normally need any special clean-up measures. In the event of a major spill, prevent spillage from entering drains or water courses. For large spills, or tank rupture, stop leak if safe to do so. Wear appropriate protective equipment as in section 8 below to prevent skin and eye contamination. Spilt material may result in a slip hazard and should be absorbed into dry, inert material (e.g. sand, earth or vermiculite), which then can be put into appropriately labeled drums for disposal by an approved agent according to local conditions. Residual deposits will remain slippery. Wash area down with excess water. If contamination of sewers or waterways has occurred advise the local emergency services. In the event of a large spillage notify the local environment protection authority or emergency services. |

SECTION 7 – HANDLING AND STORAGE

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| Handling | Avoid contact with incompatible materials. When handling, DO NOT eat, drink or smoke. Keep containers closed at all times. Avoid physical damage to containers. Always wash hands with water after handling. |
| Storage | Store in a cool, dry, place with good ventilation. Store away from incompatible materials (Section 10). Keep containers closed at all times – check regularly for leaks. |

SECTION 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

| | |
|------------------------|---|
| Exposure Limits | National Occupational Exposure Limits, as published by National Occupational Health & Safety Commission: Time-weighted Average (TWA): None established for specific product. See SECTION 3 for Exposure Limits of individual ingredients. Short Term Exposure Limit (STEL): None established for specific product. See SECTION 3 for Exposure Limits of individual ingredients. |
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| Biological Limit Value | None established for product. |
| Engineering Controls | Ensure ventilation is adequate to maintain air concentrations below exposure standards. Avoid generating mists of the product. Use only in a well-ventilated area. |
| Personal Protective Equipment | This product is not classified as hazardous according to the criteria of Worksafe Australia. Use good occupational work practice. The use of protective clothing and equipment depends upon the degree and nature of exposure. Final choice of appropriate protection will vary according to individual circumstances i.e. methods of handling or engineering controls and according to risk assessments undertaken. The following protective equipment should be available; |
| Eye Protection | Generally not required to handle the product. The use of safety glasses with side shield protection, goggles or face shield is recommended to handle in quantity, cleaning up spills, decanting, etc. Contact lenses pose a special hazard; soft lenses may absorb irritants and all lenses concentrate them. |
|  | |
| Skin Protection | Generally not required to handle the product. Overalls, work boots and elbow length gloves are recommended for handling the concentrated product (as per AS/NZS 2161, or as recommended by supplier) in quantity, cleaning up spills, decanting, etc. |
|   | |
| Protective Material Types | Material suitable for detergent contact – Butyl rubber, Natural Latex, Neoprene, PVC, and Nitrile. |
| Respirator | Generally not required to handle the product. Where high contaminant spray mist or vapour levels exist, ie, approaching the exposure limit, the following additional equipment is required: For short elevated exposures, eg, spillages:- Appropriate organic vapour cartridge respirator as per the requirements of AS/NZS 1715 and AS/NZS 1716 (Respiratory protective devices). For prolonged exposure and confined spaces:- full face air supplied or self contained breathing apparatus (if vapour levels exceed the Exposure Limit by more than ten times, air supplied apparatus should be used). |

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---|------------------------------|--|----------------------|
| Physical State | Soluble oil | Colour | Clear to translucent |
| Odour | fragrant odour | Specific Gravity | 0.98 - 1.02 @ 25 °C |
| Boiling Point | Approximately 100 °C. | Freezing Point | Approximately 0 °C |
| Vapour Pressure | Not available | Vapour Density | Not available. |
| Flash Point | Not combustible | Flammable Limits | Not available |
| Water Solubility | Miscible in all proportions. | pH | 6.0 – 8.0 neat |
| Volatile Organic Compounds (VOC) | 0 % v/v. | Coefficient of Water/Oil Distribution | Not available. |
| Viscosity | Not available. | Odour Threshold | Not available. |
| Evaporation Rate | Not available. | Per Cent Volatile | Ca 85 % v/v. |

SECTION 10 – STABILITY AND REACTIVITY

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|---|--|
| Chemical Stability | Stable at normal temperatures and pressure. |
| Conditions to Avoid | None known. |
| Incompatible Materials | Strong oxidizing agents and reducing agents. |
| Hazardous Decomposition Products | Product can decompose on combustion to form Carbon Monoxide, Carbon Dioxide, and other possibly toxic gases and vapours. |
| Hazardous Reactions | None known. |

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SECTION 11 – TOXICOLOGICAL INFORMATION

PRODUCT MIXTURE INFORMATION

Local Effects Mild irritant: eye and ingestion.

Target Organs Eyes, mucous membranes.

POTENTIAL HEALTH EFFECTS

Ingestion

short term exposure Ingestion of large amounts may irritate the gastric tract causing nausea and vomiting. Pure Melaleuca Oil is considered toxic. However, formulations under 25% are considered non-toxic. This product is less than 25% tea tree oil.

long term exposure No information available.

Skin contact Not a skin irritant. In rare cases skin contact may cause some irritation during use. 1.5% of the population may experience an allergic reaction to 100% Melaleuca Oil. This usually takes the form of reddening of the skin, a burning sensation and occasionally blistering. Melaleuca Oil is generally considered a non-irritant in inert formula's below 10% concentration, and considered non-toxic at levels of less than 25% concentration. Industry studies indicate allergic reaction to products containing less than 10% Melaleuca Oil is rare, and usually involves some redness of the skin

short term exposure Not a skin irritant. In rare cases skin contact may cause some irritation during use. 1.5% of the population may experience an allergic reaction to 100% Melaleuca Oil and Eucalyptus Oil. This usually takes the form of reddening of the skin, a burning sensation and occasionally blistering. Melaleuca Oil and Eucalyptus Oil are generally considered a non-irritant in inert formula's below 10% concentration, and considered non-toxic at levels of less than 25% concentration. Industry studies indicate allergic reaction to products containing less than 10% Melaleuca Oil is rare, and usually involves some redness of the skin.

long term exposure No known effects.

Eye contact

short term exposure Eye contact may cause stinging, blurring, tearing, pain.

long term exposure No information available.

Inhalation

short term exposure Not an inhalation hazard when used as directed. Inhalation of generated mists or aerosols may produce mucous membrane and respiratory irritation.

long term exposure No information available.

Carcinogen Status

NOHSC No significant ingredient is classified as carcinogenic by NOHSC.

NTP No significant ingredient is classified as carcinogenic by NTP.

IARC No significant ingredient is classified as carcinogenic by IARC.

Medical conditions aggravated by exposure No information available.

CLASSIFICATION OF INDIVIDUAL INGREDIENTS

NOTE : This information relates to each individual ingredient, when evaluated as pure undiluted chemical.

See SECTION 3 for actual proportions of ingredients present in this product.

Ingredients **R-Phrases.**

Non hazardous 100% None allocated

SECTION 12 – ECOLOGICAL INFORMATION

Fish toxicity None available for specific product.

Algae toxicity None available for specific product.

Invertebrates toxicity None available for specific product.

Toxicity to Bacteria None available for specific product.

OECD Biological degradation Individual components stated to be biodegradable.

General Product miscible in all proportions with water. Do not discharge bulk quantities into drains, waterways, sewer or environment. Inform local authorities if this occurs.

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SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal

The small quantities contained in wash solutions (when used as directed) can generally be handled by conventional sewage systems, septics, and grey water systems. As with any chemical, do not put down the drain in quantity. To dispose of quantities of undiluted product, refer to State Land Waste Management Authority. Transfer product residues to a labelled, sealed container for disposal or recovery. Waste disposal must be by an accredited contractor.

SECTION 14 – TRANSPORT INFORMATION

| | | | |
|-------------------------|----------------|----------------------------|----------------|
| UN Number | none allocated | ADG Classification | none allocated |
| Shipping Name | none allocated | ADG Subsidiary Risk | none allocated |
| Hazchem Code | none allocated | Packing Group | none allocated |
| Packaging Method | none allocated | Special Provisions | none allocated |
| Segregation | none allocated | | |

SECTION 15 – REGULATORY INFORMATION

AICS All ingredients present on AICS.

SECTION 16 – OTHER INFORMATION

Labeling Details

| | |
|-----------------------|----------------|
| HAZARD | Not hazardous |
| RISK PHRASES | None allocated |
| SAFETY PHRASES | None allocated |
| SUSDP | None allocated |
| ADG Code | None allocated |

Acronyms

| | |
|-------------------|--|
| SUSDP | Standard for the Uniform Scheduling of Drugs and Poisons. |
| ADG Code | Australian Code for the Transport of Dangerous Goods by Road and Rail. |
| CAS Number | Chemical Abstracts Service Registry Number. |
| UN Number | United Nations Number. |
| R-Phrases | Risk Phrases. |
| HAZCHEM | An emergency action code of numbers and letters which gives information to emergency services. |
| NOHSC | National Occupational Health and Safety Commission. |
| NTP | National Toxicology Program (USA). |
| IARC | International Agency for Research on Cancer. |
| AICS | Australian Inventory of Chemical Substances. |
| TWA | Time Weighted Average |
| STEL | Short Term Exposure Limit |

Literature References

List of Designated Hazardous Substances [NOHSC:10005(1999)]
Australian Code For The Transport Of Dangerous Goods By Road And Rail – Sixth Edition.
Standard for the Uniform Scheduling of Drugs and Poisons.
National Code of Practice for the Preparation of Material Safety Data Sheets 2nd Edition [NOHSC:2011(2003)]
Approved Criteria for Classifying Hazardous Substances [NOHSC:1008(1999)]
Material Safety Data Sheets – individual raw materials – Suppliers.
HSIS – Hazardous Substance Information System – National Worksafe Data Base.

Revision Information

| | | | |
|----------------------|--|------------------------------|--------------|
| Note | Safety Data Sheets are updated frequently. Please ensure that you have a current copy. | | |
| Contact Point | Regulatory Affairs Manager. | Telephone | 02 6687 4162 |
| Issue Date | JUNE 2011 | Supersedes Issue Date | First issue |

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This MSDS summarizes at the date of issue our best knowledge of the health and safety hazard information of this product, and in particular how to safely handle and use this product in the workplace. Since the supplier cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, review this MSDS in the context of how the user intends to handle and use the product in the workplace. If clarification or further information is needed to ensure that an appropriate assessment can be made, the user should contact the supplier.