



**AGRO-ALLIANCE**  
(AUSTRALIA) PTY LTD

Product Name: Agro-Essence Tri-allate 500 Herbicide

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This version issued: February, 2017

## Section 1 - Identification of the Material and Supplier

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**Chemical nature:** Emulsifiable concentrate containing triallate  
**Trade Name:** **Agro-Essence Tri-allate 500 Herbicide**  
**APVMA Code:** 67429  
**Product Use:** Agricultural herbicide for use as described on the product label.  
**Creation Date:** **November, 2016**  
**This version issued:** **February, 2017** and is valid for 5 years from this date.  
**Poisons Information Centre: Phone 13 1126 from anywhere in Australia**

## Section 2 - Hazards Identification

### Statement of Hazardous Nature

This product is classified as: Xn, Harmful. Xi, Irritating. Hazardous according to the criteria of SWA.

Not subject to the ADG Code when transported in Australia by Road or Rail in packages 500kg (L) or less; or IBCs (refer to SP AU01). However if transported by Air or Sea, this provision does not apply. Then the product is classed as Dangerous (Class 9 Environmentally Hazardous) by IATA and IMDG/IMSBC respectively. See details below and in Section 14 of this SDS.

Note: differing Hazard Criteria of SWA and TGA may result in seeming inconsistencies between SDS and label.

**SUSMP Classification:** S5

**ADG Classification:** Class 9: Miscellaneous Dangerous Goods.

**UN Number:** 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.



### GHS Signal word: DANGER

Flammable liquids Category 4  
Acute Toxicity Oral Category 4  
Aspiration Hazard Category 1  
Skin Corrosion /Irritation Category 2  
Skin Sensitisation Category 1  
Serious eye damage/eye irritation Category 2B  
Specific Target Organ Toxicity - Single Exposure Category 3  
Hazardous to aquatic environment Short term/Chronic Category 1

### HAZARD STATEMENT:

H227: Combustible liquid.  
AUH066: Repeated exposure may cause skin dryness or cracking.  
H302: Harmful if swallowed.  
H304: May be fatal if swallowed and enters airways.  
H315: Causes skin irritation.  
H317: May cause an allergic skin reaction.  
H320: Causes eye irritation.  
H335: May cause respiratory irritation.  
H336: May cause drowsiness or dizziness.  
H410: Very toxic to aquatic life with long lasting effects.

### PREVENTION

P210: Keep away from heat, sparks, open flames and hot surfaces. - No smoking.

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- P261: Avoid breathing fumes, mists, vapours or spray.  
 P262: Do not get in eyes, on skin, or on clothing.  
 P264: Wash contacted areas thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.  
 P271: Use only outdoors or in a well ventilated area.  
 P272: Contaminated work clothing should not be allowed out of the workplace.  
 P273: Avoid release to the environment.  
 P280: Wear protective gloves, protective clothing and eye or face protection.

**RESPONSE**

- P362: Take off contaminated clothing and wash before reuse.  
 P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE or doctor.  
 P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P302+P352: IF ON SKIN: Wash with plenty of soap and water.  
 P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P333+P313: If skin irritation or rash occurs: Get medical advice.  
 P337+P313: If eye irritation persists: Get medical advice.  
 P381: Eliminate all ignition sources if safe to do so.  
 P391: Collect spillage.  
 P370+P378: In case of fire, use carbon dioxide, dry chemical, foam, water fog. Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal foam can be used.

**STORAGE**

- P405: Store locked up.  
 P410: Protect from sunlight.  
 P402+P404: Store in a dry place. Store in a closed container.  
 P403+P235: Store in a well-ventilated place. Keep cool.

**DISPOSAL**

- P501: Dispose of contents and containers as specified on the registered label.

## Emergency Overview

**Physical Description & colour:** Amber to brown coloured liquid

**Odour:** Solvent odour.

**Major Health Hazards:** Technical Triallate is harmful by ingestion and practically nontoxic via dermal exposure or inhalation. Inhalation exposure to large amounts of thiocarbamates may cause itching, scratchy throat, sneezing, and coughing. Triallate is moderately irritating to the skin and is a mild eye irritant. Product is irritating to eyes and skin, harmful if swallowed, possible skin sensitiser, if aspirated, may cause lung damage, repeated exposure may cause skin dryness or cracking; vapours may cause drowsiness and dizziness.

## Section 3 - Composition/Information on Ingredients

| Ingredients                     | CAS No     | Conc, g/L | TWA (mg/m <sup>3</sup> ) | STEL (mg/m <sup>3</sup> ) |
|---------------------------------|------------|-----------|--------------------------|---------------------------|
| Triallate                       | 2303-17-5  | 500       | not set                  | not set                   |
| Liquid hydrocarbon              | 64742-94-5 | 471       | not set                  | not set                   |
| Other non hazardous ingredients | secret     | to 1 L    | 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 SDS 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.

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**Skin Contact:** 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 15 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:** The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. There is little risk of an explosion from this product if commercial quantities are involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids. Fire decomposition products from this product may be toxic if inhaled. Take appropriate protective measures.

**Extinguishing Media:** In case of fire, use carbon dioxide, dry chemical, foam or water fog. Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal foam can be used. 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 little 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:** >62°C

**Upper Flammability Limit:** No data.

**Lower Flammability Limit:** No data.

**Autoignition temperature:** No data.

**Flammability Class:** Flammable Category 4 (GHS), C1 combustible (AS 1940)

## Section 6 - Accidental Release Measures

**Accidental release:** In the event of a major spill, prevent spillage from entering drains or water courses. Wear full protective clothing including eye/face protection. All skin areas should be covered. See below under Personal Protection regarding Australian Standards relating to personal protective equipment. No special recommendations for clothing materials. Eye/face protective equipment should comprise, as a minimum, protective goggles. If there is a significant chance that vapours or mists are likely to build up in the cleanup area, we recommend that you use a respirator. Usually, no respirator is necessary when using this product. However, if you have any doubts consult the Australian Standard mentioned below (section 8). Otherwise, not normally necessary.

Stop leak if safe to do so, and contain spill. Absorb onto sand, vermiculite or other suitable absorbent material. If spill is too large or if absorbent material is not available, try to create a dike to stop material spreading or going into drains or waterways. Because of the environmentally hazardous nature of this product, special care should be taken to restrict release to waterways or drains. Sweep up and shovel or collect recoverable product into labelled containers for recycling or salvage, and dispose of promptly. Recycle containers wherever possible after careful cleaning. Refer to product label for specific instructions. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. Full details regarding disposal of used containers, spillage and unused material may be found on the label. If there is any conflict between this SDS and the label, instructions on the label prevail. Ensure legality of disposal by consulting regulations prior to disposal. Thoroughly launder protective clothing before storage or re-use. Advise laundry of nature of contamination when sending contaminated clothing to laundry.

## 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 SDS 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:** This product is a Scheduled Poison. Observe all relevant regulations regarding sale, transport and storage of this schedule of poison. Check packaging - there may be further storage instructions on the label.

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## 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**.

Exposure limits have not been established by SWA for any of the significant ingredients in this product.

The ADI for Triallate is set at 0.005mg/kg/day. The corresponding NOEL is set at 0.5mg/kg/day. ADI means Acceptable Daily Intake; NOEL means No-observable-effect-level. Data from Australian ADI List, June 2014.

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: PVC.

**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, if practical, be provided near to where this product is being handled commercially.

## Section 9 - Physical and Chemical Properties:

|   |  |
|---|--|
| <b>Physical Description &amp; colour:</b> | Amber to brown coloured liquid                   |
| <b>Odour:</b>                             | Solvent odour.                                   |
| <b>Boiling Point:</b>                     | No data.   |
| <b>Freezing/Melting Point:</b>            | No specific data. Liquid at normal temperatures. |
| <b>Volatiles:</b>                         | No data.   |
| <b>Vapour Pressure:</b>                   | Negligible at 25°C                               |
| <b>Vapour Density:</b>                    | No data.   |
| <b>Specific Gravity:</b>                  | 1.05   |
| <b>Water Solubility:</b>                  | Emulsifiable.                                    |
| <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>                 | No data.   |

## 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:** Protect this product from light. Store in the closed original container in a dry, cool, well-ventilated area out of direct sunlight.

**Incompatibilities:** strong oxidising agents.

**Fire Decomposition:** 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. May form hydrogen chloride gas and other compounds of chlorine. 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

**Toxicity:** An information profile for Triallate is available at <http://extoxnet.orst.edu/pips/ghindex.html>

**Acute toxicity:** The oral LD<sub>50</sub> for technical Triallate in rats is 800 to 2165 mg/kg, and in mice is 930 mg/kg. The oral LD<sub>50</sub> in rats for emulsifiable concentrate formulations is 2700 mg/kg, and for granular formulations is greater than

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12,000 mg/kg. The dermal LD50 for technical Triallate is 8200 mg/kg in rabbits, and 3500 mg/kg in rats. The inhalation 4-hour LC<sub>50</sub> in cats is 0.4 mg/L. In rats fed Triallate at doses of 50 to 2000 mg/kg, abnormal behaviour was observed at doses of 100 mg/kg and above. No changes in nerve tissue occurred. At doses of 600 mg/kg and above, death and reduced body weight occurred. Although Triallate is a carbamate, it does not inhibit cholinesterase activity. No symptoms occurred, and cholinesterase activity was not affected in rats fed single doses of 1500 and 3000 mg/kg. **Chronic toxicity:** Prolonged or repeated exposure to Triallate may cause symptoms similar to those caused by acute exposure. Oral doses of 100 mg/kg/day Triallate to hamsters for 22 months resulted in decreased body weight gain, changes in blood chemistry, slight anaemia, increased liver weights, and decreased spleen weights. Mice fed 3 and 12.5 mg/kg/day Triallate for 2 years exhibited increased liver and heart weights, changes in the liver and spleen, and mineralization in the brain and cornea. No adverse effects were observed in dogs fed 1.5, 5, and 15 mg/kg/day Triallate for 2 years.

**Reproductive effects:** Reduced body and pup weights, reduced pregnancy rate and length, reduced pup survival, and effects on other reproductive parameters occurred when rats were fed 30 mg/kg/day Triallate during mating, pregnancy, and nursing for two successive generations. This suggests that Triallate can cause reproductive effects at high doses.

**Teratogenic effects:** No birth defects were observed in the offspring of rabbits given Triallate doses of 5, 15, and 45 mg/kg/day on days 6 to 28 of pregnancy. These and other data indicate that Triallate is not teratogenic.

**Mutagenic effects:** No genetic changes occurred in tests using live animals (fruit flies, hamsters, and mice). In tests using bacterial and animal cell cultures, both positive and negative results have been reported. This suggests that Triallate is either nonmutagenic or weakly mutagenic.

**Carcinogenic effects:** Several long-term feeding studies showed no incidence of tumours. Triallate did not produce tumours in rats fed up to 12.5 mg/kg/day for 2 years. No tumours appeared when hamsters were fed dietary doses of up to 100 mg/kg Triallate for 22 months. These data indicate that Triallate is not carcinogenic.

**Organ toxicity:** Changes in the cellular processes of the brain, liver and spleen were observed in pigs given triallate. Studies on other species have indicated the thymus, kidneys and reproductive organs are potential targets as well.

**Fate in humans and animals:** In general, thiocarbamates, the chemical class in which Triallate is included, are rapidly absorbed into the bloodstream from the gastrointestinal tract, readily broken down into metabolites, and then excreted by treated animals. It is rarely possible to detect thiocarbamates in the blood. A single oral dose of 500 mg/kg of Triallate was rapidly absorbed from the gastrointestinal tract of rabbits. It was then found to be present in all organs tested within 15 to 20 minutes after dosing. The largest amount of the herbicide accumulated in the liver, lungs, kidneys, and spleen. All traces were gone by the 7th day. Triallate was reported to be completely eliminated from the body of rabbits within 7 to 10 days.

### Classification of Hazardous Ingredients

| Ingredient  | Risk Phrases                    |
|---|---------------------------------|
| Triallate   | Conc>=25%: Xn; R22; R48/22; R43 |
| <ul style="list-style-type: none"> <li>Acute toxicity - category 4</li> <li>Specific target organ toxicity (repeated exposure) - category 2</li> <li>Skin sensitisation - category 1</li> <li>Hazardous to the aquatic environment (acute) - category 1</li> <li>Hazardous to the aquatic environment (chronic) - category 1</li> </ul> |                                 |
| Liquid Hydrocarbon  | Conc>=10%: Xn; R65              |
| <ul style="list-style-type: none"> <li>Aspiration hazard - category 1</li> </ul>  |                                 |

Triallate is classed by SWA as a potential sensitiser by skin contact.

### Potential Health Effects

**Persons sensitised to triallate should avoid contact with this product.**

#### Inhalation:

**Short term exposure:** High vapour pressures may cause drowsiness and dizziness. In addition product may be mildly irritating, although unlikely to cause anything more than mild transient discomfort.

**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:** Repeated exposure may cause skin dryness or cracking.

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**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.

**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 12 - Ecological Information

This product is very toxic to aquatic organisms.

**Effects on birds:** Triallate is slightly toxic to relatively nontoxic to birds. The acute oral LD<sub>50</sub> for Triallate in bobwhite quail is 2251 mg/kg. The 8-day dietary LD<sub>50</sub> is greater than 5000 ppm in both mallards and bobwhite quail.

**Effects on aquatic organisms:** Triallate is highly toxic to fish and other aquatic organisms. The 48-hour EC<sub>50</sub> in *Daphnia magna* is 0.06 to 0.10 mg/L for the 95% technical material and the LC<sub>50</sub> is 0.05 to 0.07 mg/L for the 46% emulsifiable concentrate. The 96-hour LC<sub>50</sub> in algae is 0.12 mg/L. The 96-hour LC<sub>50</sub> for technical material has been reported as 0.62 mg/L in rainbow trout (1.0 mg/L for the emulsifiable concentrate), and 1.7 mg/L in channel catfish (1.1 mg/L for the emulsifiable concentrate). When technical Triallate concentrations were measured in bluegill sunfish over a 7-week period, marked bioaccumulation occurred. The concentration in the fish was 1600 times the ambient water concentration. However, after 2 weeks in water without triallate, the compound was nearly completely eliminated by the fish.

**Effects on other organisms:** Triallate is nontoxic to bees.

**Environmental Fate:**

**Breakdown in soil and groundwater:** Triallate has a moderate persistence in the soil environment. It adsorbs strongly to loam and clay soils and is not readily dissolved in water. This indicates that Triallate is not likely to move through the soil, even though it has an average soil half-life of 82 days. However, if there is significant moisture and/or a low level of organic matter in the soil, leaching and groundwater contamination may be possible.

**Breakdown in water:** Triallate is stable to ultraviolet degradation and will probably be found adsorbed to suspended sediment in the water column or in hydrosols due to its slight water solubility and its ability to bind to particulates. Typical breakdown times in hydrosols may be longer than in terrestrial systems due to lower oxygen availability for microbial degradation.

**Breakdown in vegetation:** Studies indicate that Triallate does not bioaccumulate in plants. Triallate is absorbed and metabolized by plants.

**Birds:** LD<sub>50</sub> bobwhite quail: >2251mg/kg

**Fish:** LC<sub>50</sub> rainbow trout (*Oncorhynchus mykiss*): 1.2mg/L

LC<sub>50</sub> bluegill sunfish (*Lepomis macrochirus*): 1.3mg/L

**Algae:** EC<sub>50</sub> *Selenastrum capricornutum* 0.12mg/L

**Daphnia:** EC<sub>50</sub> 0.43mg/L

## Section 13 - Disposal Considerations

**Disposal:** Special help is available for the disposal of Agricultural Chemicals. The product label will give general advice regarding disposal of small quantities, and how to cleanse containers. However, for help with the collection of unwanted rural chemicals, contact ChemClear 1800 008 182 <http://www.chemclear.com.au/> and for help with the disposal of empty drums, contact DrumMuster <http://www.drummuster.com.au/> where you will find contact details for your area.

## Section 14 - Transport Information

**Not subject to the ADG Code when transported by Road or Rail in Australia, in packages 500kg(L) or less; or IBCs, but classed as Dangerous by IATA and IMDG/IMSBC when carried by Air or Sea transport (see details below).**

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**UN Number:** 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.**Hazchem Code:** •3Z**Special Provisions:** 179, 274, 331, 335, AU01**Limited quantities:** ADG 7 specifies a Limited Quantity value of 5 L for this class of product.**Dangerous Goods Class:** Class 9: Miscellaneous Dangerous Goods.**Packing Group:** III**Packing Instruction:** P001, IBC03, LP01

Class 9 Miscellaneous Dangerous Goods shall not be loaded in the same vehicle or packed in the same freight container with Dangerous Goods of Class 1 (Explosives).

### Section 15 - Regulatory Information

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

The following ingredients: Triallate, Liquid hydrocarbon are mentioned in the SUSMP.

### Section 16 - Other Information

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

**Acronyms:**

|                     |   |
|---------------------|---|
| <b>ADG Code</b>     | Australian Code for the Transport of Dangerous Goods by Road and Rail (7 <sup>th</sup> 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 & Poisons  |
| <b>UN Number</b>    | United Nations Number   |

THIS SDS 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 SDS 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 SDS is prepared in accord with the SWA document "Preparation of Safety Data Sheets for Hazardous Chemicals - Code of Practice" (Feb 2016)

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

End of SDS

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