# SAFETY DATA SHEET

## Section 1 - PRODUCT IDENTIFIER/CHEMICAL IDENTITY

**1.1 PRODUCT IDENTIFIER:** Diesel Fuel Treatment
**1.2 PRODUCT CODE:** ADDSLTREAT
**1.3 RELEVANT IDENTIFIED USES OF THE MIXTURE AND USES ADVISED AGAINST:**
**RELEVANT IDENTIFIED USES:** Multipurpose fuel additive for diesel fuel
**RESTRICTIONS ON USE:** None known
**1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:**

**SUPPLIER NAME:** PENRITE OIL Company Pty Ltd (ABN: 25005 001 525)
**ADDRESS:** 88 Lewis Road, Wantirna South, Victoria, Australia, 3152
**EMAIL:** tech@penriteoil.com (Aust and NZ)
**TELEPHONE NUMBER** 03 9801 0877 (NZ: 0800 533 698)
**EMERGENCY TEL. NUMBER:** 1300 736 748 (NZ: 0800 533 698)
(Poisons information Centre (Aust 131 126; NZ 0800 764 766).

## Section 2 - HAZARD(S) IDENTIFICATION

**2.1 CLASSIFICATION OF THE HAZARDOUS CHEMICAL:**
**GHS CLASSIFICATION HAZARD CLASS AND CATEGORY:** Under the Work Health and Safety Regulations (Safe Work Australia), the product is classified as hazardous:
Flammable Liquid - Category 4
Aspiration Toxicity - Category 1
Skin corrosion - Category 1
Skin Sensitisation - Category 1
Specific target organ toxicity (single exposure) - Category 3
Carcinogenicity - Category 2
Hazardous to the aquatic environment, long-term hazard - Category 2

**2.2 LABEL ELEMENTS INCLUDING PRECAUTIONARY STATEMENTS:**
**SIGNAL WORD:** DANGER
**PICTOGRAMS:**

GHS05 GHS07 GHS09

**HAZARD STATEMENTS:**
H227 Combustible liquid
H304 May be fatal if swallowed and enters airways
H314 Causes severe skin burns and eye damage
H317 May cause an allergic skin reaction
H335 May cause respiratory irritation

| | |
|---|---|
| H336 | May cause drowsiness or dizziness |
| H351 | Suspected of causing cancer |
| AUH066 | Repeated exposure may cause skin dryness and cracking |
| H411 | Toxic to aquatic life with long lasting effects |

**PRECAUTIONARY STATEMENTS:**

**PREVENTION:**

| | |
|---|---|
| P102 | Keep out of reach of children |
| P103 | Read label before use |
| P202 | Do not handle until all safety precautions have been read and understood |
| P210 | Keep away from heat/sparks/open flames/hot surfaces. No smoking. |
| P261 | Avoid breathing mist/vapours/spray |
| P264 | Wash hands thoroughly after handling |
| P271 | Use only outdoors or in a well-ventilated area |
| P273 | Avoid release to the environment |
| P280 | Wear protective gloves and eye/face protection |

**RESPONSE:**

| | |
|---|---|
| P101 | If medical advice is needed, have product container or label at hand |
| P301 + P330 + P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. |
| P303 + P361 + P353 | IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin/hair with water/shower. |
| P363 | Wash contaminated clothing before reuse. |
| P304 + P340 | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing |
| P310 | Immediately call a POISON CENTRE or doctor/physician |
| P305 + P351 + P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P308 + P313 | If exposed or concerned: Get medical advice/attention |
| P312 | Call a POISON CENTRE or doctor/physician if you feel unwell |
| P331 | Do NOT induce vomiting |
| P332 + P313 | If skin irritation occurs: Get medical advice/attention |
| P337 + P313 | If eye irritation persists: Get medical advice/attention |
| P362 | Remove contaminated clothing and wash before reuse |
| P370 + P378 | In case of fire: Use carbon dioxide, alcohol-resistant foam, dry chemical or water spray for extinction |
| P391 | Collect spillage |

**STORAGE:**

| | |
|---|---|
| P403 + P233 + P235 | Store in a well-ventilated place. Keep container tightly closed. Keep cool. |
| P405 | Store locked up |

**DISPOSAL:**

| | |
|---|---|
| P501 | Dispose of contents/container in accordance with local regulations |

**2.3 OTHER HAZARDS:**

Due to the presence of solvents there is a possibility of organ system damage. The presence of the solvent component suggests that the product may be irritating to the skin, eyes and respiratory system. The product contains Naphthalene which is considered extremely hazardous to children - the SUSMP states that Naphthalene can be fatal to children if swallowed. The product is a combustible liquid and can potentially form flammable/explosive mixtures in air. There may be static discharge issues with the product in large scale operations

that could lead to a fire. As for all chemical products, persons should not expose open wounds, cuts, abrasions or irritated skin to this material.

# Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS

| INGREDIENTS | CAS | CONC (%W/W) | GHS | Code |
|---|---|---|---|---|
| Distillates, petroleum, hydrotreated light | 64742-47-8 | 40 - 50 | Asp Tox Cat 1 | H304 |
| Solvent naphtha, petroleum, heavy aromatic | 64742-94-5 | 30 - 40 | Asp Tox Cat 1 | H304 |
| | | | Skin | AUH066 |
| | | | STOT SE Cat 3 | H336 |
| | | | Aq Chronic Tox Cat 2 | H411 |
| 2-Ethyl hexanol | 104-76-7 | 5 - 10 | Skin Irrit Cat 2 | H315 |
| | | | Eye Irrit Cat 2A | H319 |
| | | | Accute Tox Cat 4 | H332 |
| | | | STOT SE Cat 3 | H335 |
| Alkyl arylamine | 101-96-2 | 1 - 4 | Skin Corrosive Cat 1B | H314 |
| | | | Accute Tox Cat 3 | H301 |
| | | | Skin Sensitiser Cat 1 | H317 |
| Benzene, 1,2,4-trimethyl- | 95-63-6 | 1 - 4 | Flam Liq Cat 3 | H226 |
| | | | Skin Irrit Cat 2 | H315 |
| | | | Eye Irrit Cat 2A | H319 |
| | | | Accute Tox Cat 4 | H332 |
| | | | STOT SE Cat 3 | H335 |
| | | | Aq Chronic Tox Cat 2 | H411 |
| Naphthalene | 91-20-3 | 1 – 4 | Accute Tox Cat 4 | H302 |
| | | | Carcinogen Cat 2 | H351 |
| | | | Aq Chronic Tox Cat 2 | H410 |
| 1-(2-Hydroxyethyl)-2-Tall Oil-2-Imidazoline | 61791-39-7 | <2 | Skin Corrosive Cat 1B | H314 |
| Other ingredients | - | up to 100 | Non hazardous | |

# Section 4 - FIRST AID MEASURES

**4.1 DESCRIPTION OF NECESSARY FIRST AID MEASURES:**

**GENERAL INFORMATION:** Take affected persons out of danger area and lay down.

**INGESTION:** Rinse mouth out with water. Do NOT induce vomiting. Seek medical help immediately. For advice, contact a Poisons Information Centre (Phone Australia 131 126; New Zealand 0800 764 766) or a doctor at once. Bring the Safety Data Sheet with you. If vomiting occurs, lean victim forward or place on left side (head-down position if possible) to maintain open airway and prevent aspiration. Within 6 hrs of ingestion, if delayed symptoms such as fever, shortness of breath, chest congestion or continued coughing/wheezing occurs, transport immediately to a medical facility.

**EYE: PROMPT ACTION IS ESSENTIAL IN CASE OF CONTACT. Get immediate medical attention.** If in eyes, hold eyelids apart and flush the eye immediately with large amounts of

running water. If only one eye affected be careful not to contaminate the other eye with runoff. Continue flushing for at least 15 minutes or until advised to stop by a doctor. Check for contact lenses. If there are contact lenses, these should be removed after several minutes of rinsing by the exposed person or medical personnel if it can be done easily. After flushing, if irritation develops or persists, seek medical assistance.

**SKIN CONTACT: PROMPT ACTION IS ESSENTIAL IN CASE OF CONTACT. Get immediate medical attention.** Immediately flush with plenty of water. If a large splash, flood body under a shower. Remove any contaminated clothing/footwear. Wash affected skin/hair thoroughly with plenty of water. If skin irritation develops or persists, consult a doctor.

**INHALATION:** Remove victim from further exposure and supply fresh air, if safe to do so. In the event of irritation of the respiratory tract, dizziness, nausea or unconsciousness, seek medical assistance immediately. If irritation develops or persists, consult a doctor.

**PROTECTION FOR FIRST AIDERS:** No special measures required, however, no personnel shall place themselves in a situation that is potentially hazardous to themselves. Always ensure that you are wearing gloves when carrying out first aid procedures involving chemicals and/or blood.

**FIRST AID FACILITIES:** Eye wash fountain and safety showers are recommended in the area where the product is used.

### 4.2 MOST IMPORTANT SYMPTOMS & EFECTS, BOTH ACUTE & DELAYED, CAUSED BY EXPOSURE:

**ACUTE:** Ingestion may cause nausea and diarrhoea. If product is aspirated into the lungs it may cause coughing, wheezing, congestion or fever. Inhalation of high vapour concentrations may cause dizziness, headache, drowsiness or nausea. Inhalation of vapours may cause irritation of the mouth and respiratory tract, a burning sensation in the nose/throat, coughing or breathing difficulty. Eye contact may lead to localised burning, redness and watering. Skin contact may lead to redness or itching.

**CHRONIC:** Skin contact may aggravate existing skin conditions such as dermatitis.

### 4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NECESSARY:

**ADVICE TO DOCTOR:** Treat symptomatically. As product is hydrocarbon based and of low viscosity, if vomiting has occurred after ingestion the patient should be monitored to ensure that aspiration into the lungs has not occurred. Inhalation of high vapour concentrations may cause depression of central nervous system.

## Section 5 - FIRE FIGHTING MEASURES

### 5.1 EXTINGUISHING MEDIA:

**SUITABLE MEDIA:** Use extinguishing media appropriate for surrounding fire. Use carbon dioxide, alcohol resistant foam, dry chemical or water spray. Spray down fumes resulting from fire.

**UNSUITABLE MEDIA:** Avoid using full water jet directed at residual material that may be burning. Water may cause splattering on hot residues. Product will float on water.

### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

**COMBUSTION HAZARDS:** Combustion may produce oxides of carbon, as well as smoke and irritating vapours.

### 5.3 ADVICE FOR FIRE FIGHTERS

**FIRE:** This product is combustible with a typical flash point of 71°C. The vapour is heavier than air and will spread along the ground and may accumulate in low points or depressions. Therefore, ignition may occur well away from the point of release of the material. Keep storage tanks, pipelines, fire exposed surfaces, etc. cool with water spray.
**HAZCHEM CODE:** 3Z
**EXPLOSION:** No information to indicate that the product is an explosion hazard; athough the volatile solvent component may form an explosive mixture with air. Note: Under WHS regulations, this product is classified Flammable Liquid - Category 4, with a typical Flash point of 74°C. Extinguish all sources of flame or spark. Closed containers may explode when exposed to extreme heat.
**PROTECTIVE EQUIPMENT:** In the event of a fire, wear full protective clothing and self-contained breathing equipment with full-face piece operated in the pressure demand or other positive pressure mode.

# Section 6 - ACCIDENTAL RELEASE MEASURES

**6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:**
**PERSONAL PROTECTION:** For small spills, wear Nitrile gloves, glasses/goggles, boots and full-length clothing. During routine operation for a small spill in the open a respirator is not required. However, if mists or vapours are generated, an approved organic vapour/particulate respirator is required. For large spills, or in confined spaces, a full chemically resistant body-suit is recommended and the atmosphere must be evaluated for oxygen deficiency and whether the atmosphere is flammable. If in doubt about potential oxygen deficiency, wear self-contained breathing apparatus. Never enter an environment with a flammable atmosphere.
**CONTROL MEASURES:** Ventilate area and extinguish and/or remove all sources of ignition. CAUTION: Vapour may form an explosive mixture with air. Never enter a spill area unless you know the vapours have dissipated to make the area safe. Stop the leak if safe to do so. CAUTION: The spilled product will be slippery. Avoid contact with the spilled material.
**EMERGENCY PROCEDURES:** In the event of a spill or accidental release, notify the relevant authorities in accordance with all applicable regulations.

**6.2 ENVIRONMENTAL PRECAUTIONS:**
**SPILL ADVICE:** Do not allow product to enter drains, surface water, sewers or watercourses - inform local authorities if this occurs. Take precautions against static discharge. Ensure all equipment is grounded and use non-sparking tools during clean-up operations.

**6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:**
**CONTAINMENT:** Contain the spill and absorb with a proprietary absorbent material, sand or earth. CAUTION: The spilled product will be slippery. Be careful of static discharges and/or sparking during clean up. For large spills prepare a bund/barrier/dyke ahead of the spill to confine the spill and allow later recovery. If there is the possibility of spills to enter drains, surface water, sewers or watercourses ensure bunding, or that drains are covered, to minimise the potential for this to occur.
**CLEANING PROCEDURES:** Having contained the spill, as mentioned above, collect all material quickly and place used absorbent in suitable containers. Be careful of static discharges and/or sparking during clean up. Use only non-sparking tools during cleaning operations. CAUTION: The spilled product will be slippery. Follow local regulations for the disposal of waste. For large spills that have been bunded, the material can be pumped, using flammable liquid equipment, into vessels and returned for reprocessing or destruction. Personnel must wear

the appropriate clothing as required in Section 6.1 during cleaning procedures; after the environment has been evaluated. Wash contaminated area and objects with detergent and water after spill has been cleared. Rinse the cleaned area with water. Do not allow wash water or rinsing to enter drains, surface water, sewers or water courses.

# Section 7 - HANDLING AND STORAGE, INCLUDING HOW THE CHEMICAL MAY BE SAFELY USED

**7.1 PRECAUTIONS FOR SAFE HANDLING:**

**SAFE HANDLING:** Avoid contact with the product by using appropriate protective equipment such as gloves, glasses or goggles and full-length clothing. Extinguish any potential sources of ignition before using as flammable vapours will be generated during application. Do not leave containers in direct sunlight. Due to the possibility of pressure build up in the container, open the container with care. Avoid breathing mists or vapours. Do not smoke when handling the material. Prevent small spills and leakage to avoid slip hazards. Properly dispose of any contaminated rags or cleaning materials in order to prevent fire hazards. Eating, drinking, and smoking should be prohibited in the area where this material is handled, stored and processed. Workers should follow good personal hygiene practices, such as washing hands before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Keep containers tightly closed when not in use. Please note that flammable mixtures may be formed when residual material remains in empty containers. Prevent product from entering waterways, drains or sewers. There is the potential for electrostatic accumulation in the product. As a precaution, containers should always be earthed before dispensing commences.

**7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATABILITIES:**

**SAFE STORAGE:** Classified as a Combustible Liquid (Flash Point=71oC). Store in a dry, well ventilated area away from direct sunlight, ignition sources, oxidising agents, foodstuffs and clothing. Keep containers closed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Store only in original containers. It is recommended that the product is stored below 25°C.

**INCOMPATIBILITIES:** Strong oxidizing substances including strong acids.

# Section 8 - EXPOSURE CONTROLS & PERSONAL PROTECTION

**8.1 EXPOSURE CONTROL MEASURES:/EXPOSURE LIMIT VALUES:** Exposure standards for the product have not been established. The following values are applicable for the individual components:

Distillates, petroleum, hydrotreated light (Manufacturer recommendation):

TWA: 100 mg/m³ (ACGIH)

Solvent naphtha, petroleum, heavy aromatic (Manufacturer recommendation):

TWA: 500 ppm 2000 mg/m³ (OSHA)

Benzene, 1,2,4-trimethyl- (Manufacturer recommendation):

TWA: 25 ppm (ACGIH)

Naphthalene:

TWA: 10 ppm 52 mg/m³ STEL: 15 ppm 79 mg/m3

**8.2 BIOLOGICAL MONITORING:** No data available

**8.3 CONTROL BANDING:** No data available

**8.4 ENGINEERING CONTROLS:** Special ventilation is not normally required when using this product in normal use scenarios. However, in the operation of certain equipment, at elevated temperatures, or in confined spaces mists or vapour may be generated and local exhaust ventilation should be provided to maintain airborne concentration levels below the nominated exposure standard and at an acceptable level that does not cause irritation. PLEASE NOTE: Due to the combustible nature of the product, if there is a necessity to use ventilation equipment it should not be a potential source of ignition for any vapours generated.

**8.5 INDIVIDUAL PROTECTION MEASURES:**

**EYE & FACE PROTECTION:** Wear safety glasses/goggles to avoid eye contact when handling. If there is a risk of splashing during use, a full face shield is recommended. Use eye protection in accordance with AS 1336 and AS 1337.

**SKIN (HAND) PROTECTION**: If there is the chance of contact with the material wear gloves to provide hand protection. Nitrile rubber gloves are recommended.

**SKIN (CLOTHING) PROTECTION:** During normal operating procedures, long sleeved clothing is recommended to avoid skin contact. Soiled clothing should be washed with detergent prior to re-use.

**RESPIRATORY PROTECTION:** During routine operation a respirator is not required. However, if mists or vapours are generated, an approved half face organic vapour/particulate respirator is required. Use respirators in accordance with AS 1715 and AS 1716.

**THERMAL PROTECTION:** Not Applicable

# SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

**9.1 PHYSICAL AND CHEMICAL PROPERTIES:**

| | |
|---|---|
| **APPERANCE:** | Dark red coloured liquid |
| **ODOUR:** | Characteristic hydrocarbon solvent |
| **ODOUR THRESHOLD:** | No data available |
| **pH:** | No data available |
| **MELTING/FREEZING POINT:** | No data available |
| **INITIAL BOILING POINT:** | No data available |
| **BOILING RANGE ($^oC$):** | No data available |
| **FLASH POINT ($^oC$):** | Typically 74$^oC$ |
| **DANGER OF EXPLOSION:** | Not determined |
| **EVAPORATION RATE:** | No data available |
| **FLAMMABILITY LIMITS (%):** | No data available |
| **VAPOUR PRESSURE (mmHg):** | No data available |
| **VAPOUR DENSITY:** | No data available |
| **DENSITY (g/mL @ 15 $^oC$):** | Typically 0.922 |
| **SOLUBILITY IN WATER (g/L):** | Insoluble |
| **PARTITION COEFFICIENT:** | No data available for n-octanol/water |

**AUTO-IGNITION TEMP (°C):** No data available
**DECOMPOSITION TEMP (°C):** No data available
**VISCOSITY (cSt @ 40 °C):** No data available
**VISCOSITY (cSt @ 100 °C):** No data available

## Section 10 - STABILITY AND REACTIVITY

**10.1 REACTIVITY:** The product does not pose any further reactivity hazards other than those listed in the following sub-sections

**10.2 CHEMICAL STABILITY:** Stable under recommended storage and handling conditions (see section 7)

**10.3 POSSIBILITY OF HAZARDOUS REACTION:** Keep away from strong oxidising agents, such as strong acids, chlorates, nitrates and peroxides. Hazardous polymerisation does not occur.

**10.4 CONDITIONS TO AVOID:** The product has a relatively low flash point of 71°C. Avoid ignition sources including heat and sparks. Observe the usual precautionary measures for handling chemicals. Do not heat the container or leave the container open when not in use.

**10.5 INCOMPATIBLE MATERIALS:** Strong oxidising agents including strong acids.

**10.6 HAZARDOUS DECOMPOSITION PRODUCTS:** Hazardous decomposition products are not expected to form during normal storage requirements. See Section 5.2 for Hazardous Combustion products.

## Section 11 - TOXICOLOGICAL INFORMATION

**11.1 INFORMATION ON TOXICOLOGICAL EFFECTS:** Product is a mixture and toxicological test data is not available for the product as a whole.

**11.2 ACUTE TOXICITY:**

**IF SWALLOWED/SKIN/INHALED:**

Distillates, petroleum, hydrotreated light (IUCLID)
- Oral - LD50 (Rat): > 5000mg/kg
- Dermal - LD50 (Rabbit): > 2000mg/kg

Solvent naphtha, petroleum, heavy aromatic
- Oral - LD50 (Rat): > 2500mg/kg
- Dermal - LD50 (Rabbit): > 2000mg/kg
- Inhalation - LC50 (Rat, vapour, 6 hours): 11.67 mg/m3

Benzene, 1,2,4-trimethyl-
- Oral - LD50 (Rat): 3400mg/kg – 6000mg/kg
- Dermal - LD50 (Rabbit): 3160mg/kg
- Inhalation - LC50 (Rat, vapour, 4 hours): 18000mg/m3

1-Hexanol, 2-ethyl-
- Oral - LD50 (Rat): > 2040mg/kg
- Dermal - LD50 (Rat): > 3000mg/kg
- Inhalation - LC50 (Rat, vapour, 4 hours): 0.89 – 5.3mg/l

Naphthalene
- Oral - LD50 (Rat): 2600mg/kg

Dermal - LD50 (Rat): > 2500mg/kg
Inhalation - LC50 (Rat, gas, 8 hours): > 100ppm

**IF SWALLOWED:** This product may cause slight irritation to the mouth, throat and digestive tract. The Naphthalene component means this is a Schedule 6 Poison. Naphthalene is considered especially hazardous to children. As the product is hydrocarbon based and the viscosity is low, caution should be taken in respect to aspiration into the lungs. Small amounts of this product aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary oedema. Ingestion of large amounts may lead to nausea and vomiting. During normal usage ingestion should not be a means of exposure.

**11.3 SKIN/CORROSION/IRRITATION:** The product is classified as skin corrosive and may cause severe burns to the skin. In addition, prolonged or repeated contact may cause defatting of the skin which may lead to dermatitis. Correct handling procedures incorporating appropriate protective clothing and gloves should minimise the risk of skin irritation. People with pre-existing skin conditions, such as dermatitis, should take extreme care so as not to exacerbate the condition.

**11.4 SERIOUS EYE DAMAGE/IRRITATION:** The product is classified as corrosive to the eye and may cause severe damage. Correct handling procedures incorporating appropriate eye/face protection should minimise the risk of eye damage.

**11.5 RESPIRATORY OR SKIN SENSITISATION:** The product is classified as a skin sensitiser according to OECD Test 406, based on the available data and the known hazards of the components. This product is not expected to be a respiratory tract sensitiser, based on the available data and the known hazards of the components.

**11.6 GERM CELL MUTAGENICITY:** This product is not expected to be mutagenic according to tests such as OECD Tests 471, 475, 476, 478 and 479, based on the available data and the known hazards of the components.

**11.7 CARCINOGENICITY:** The product contains low levels of Naphthalene, as a component of the solvent naphtha, petroleum, heavy aromatic ingredient, which is classified as Carcinogenic Category 2 H351 - Suspected of causing cancer. The additive package manufacturer states that weak carcinogenic liver response was observed in mice, but not rats. A National Toxicology Program final report states that lifetime inhalation exposure to naphthalene resulted in increases in nose tumours in rats and lung tumours in female mice.

**11.8 REPRODUCTIVE TOXICITY:** This product is not expected to be a reproductive hazard according to tests such as OECD Tests 414 and 421, based on the available data and the known hazards of the components.

**11.9 SPECIFIC TARGET ORGAN TOXICITY (STOT) SINGLE EXPOSURE**: This product is classified as STOT SE 3 H336 - May cause drowsiness and dizziness. It contains volatile hydrocarbon components, hence inhalation of vapours or mist may cause irritation to the nose and throat. Inhalation of high concentrations may cause central nervous system depression resulting in headaches, dizziness and nausea. Exposure to high levels of hydrocarbon solvent vapours may impact on the liver and kidneys.

**11.10 SPECIFIC TARGET ORGAN TOXICITY (STOT) REPEATED EXPOSURE:** There is no data available for the product as a whole. This product is not expected to cause organ damage from prolonged or repeated exposure according to tests such as OECD Tests 410 and 412, based on

the available data and the known hazards of the components. The product contains trimethylbenzene. The literature data indicates that long term inhalation exposure causes blood effects in laboratory animals.

**11.11 ASPIRATION HAZARD:** This product is classified as Aspiration Toxicity Cat 1 H304 - May be fatal if swallowed and enters airways. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary oedema. This can be fatal. As the product is hydrocarbon based, if the product has been ingested or vomiting has occurred after ingestion, the patient must seek urgent medical attention and should be monitored for adverse effects.

**11.12 OTHER INFORMATION:** This product contains Naphthalene. Naphthalene exposure may cause severe dermatitis in sensitised persons. Ingestion of naphthalene has caused hemolysis in humans deficient in glucose-6-phosphate dehydrogenase.

## Section 12 - ECOLOGICAL INFORMATION

**12.1 ECOTOXICITY:** There is no data available for the product as a whole. However, some of the components have been classified as Very toxic to aquatic life with long lasting effects and Toxic to aquatic life with long lasting effects. Based upon these nominated values the product is expected to be Toxic to aquatic life with long lasting effects.

**12.2 PERSISTENCE & DEGRADABILITY**: Based on the available data and the known hazards of the components, the solvent constituents are expected to be inherently biodegradable.

**12.3 BIOACCUMULATIVE POTENTIAL:** No data available

**12.4 MOBILITY IN SOIL:** The solvent component is relatively volatile and will evaporate to the air if released to the environment.

**12.5 OTHER ADVERSE EFFECTS:** There is no data available for the product as a whole. The product will float on water and the solvent component will evaporate rapidly into the air.

## Section 13 - DISPOSAL CONSIDERATION

**13.1 DISPOSAL METHODS:**

**PRODUCT:** The product should not be released to the environment, so any unused material should be recycled wherever possible or be disposed of as hazardous waste at an appropriate collection depot. The product is also suitable for incineration at very high temperatures to prevent formation of undesirable combustion products. Spilled product that cannot be recovered should be absorbed and then shovelled into a suitable waste container, such as a plastic drum and then be treated as a solid waste. Follow Government regulations for disposal of such waste. All unused, waste or spilled product must be taken for recycling or disposal by suitably licensed contractors in accordance with Government regulations. Note: Waste product must be handled as a Combustible liquid.

**CONTAINERS:** Empty containers may contain residual product. CAUTION: Residues are combustible and will ignite with a source of ignition. Containers should be completely drained in a well ventilated area where vapours cannot accumulate and then stored until reconditioned or disposed of. Empty containers should be taken for recycling or disposal through suitably licensed contractors in accordance with Government regulations. As

containers may contain combustible residues, they should not be pressurised, cut by a grinder, drilled or exposed to heat, flames or other sources of ignition. Closed containers when exposed to such conditions/treatment may explode causing serious injury.

## Section 14 - TRANSPORT INFORMATION

**14.1 LAND (ADG Code):**

**UN NUMBER:** 3082

**UN PROPER SHIPPING NAME:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Solvent naphtha, petroleum, heavy, aromatic, Naphthalene, Benzene, 1,2,4-trimethyl, and Benzene, 1,3,5-trimethyl-).

**TRANSPORT HAZARD CLASS(ES):** 9

**PACKAGING GROUP:** III

**LIMITED QUANTITIES:** Not applicable

**ENVIRONMENTAL HAZARDS:** Yes

**SPECIAL PROVISIONS:** 274, 331, AU01

**HAZCHEM CODE:** 3Z

**14.2 SEA (IMDG):**

**UN NUMBER:** 3082

**UN PROPER SHIPPING NAME:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Solvent naphtha, petroleum, heavy, aromatic, Naphthalene, Benzene, 1,2,4-trimethyl, and Benzene, 1,3,5-trimethyl-).

**TRANSPORT HAZARD CLASS(ES):** 9

**PACKAGING GROUP:** III

**ENVIRONMENTAL HAZARDS:** Yes

**SPECIAL PRECAUTIONS FOR USER:** 274, 969

**14.3 AIR (IATA):**

**UN NUMBER:** 3082

**UN PROPER SHIPPING NAME:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Contains Solvent naphtha, petroleum, heavy, aromatic, Naphthalene, Benzene, 1,2,4-trimethyl, and Benzene, 1,3,5-trimethyl-).

**TRANSPORT HAZARD CLASS(ES):** 9

**PACKAGING GROUP:** III

**ENVIRONMENTAL HAZARDS:** Yes

**SPECIAL PRECAUTIONS FOR USER:** A97, A197

## Section 15 - REGULATORY INFORMATION

**15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS:**

**APPLICABLE REGULATONS:**

**SUSMP:** Schedule 6 (S6)

**AICS:** All ingredients are listed in the AICS list

**MONTREAL PROTOCOL:** Not determined

**STOCKHOLM CONVENTION:** Not determined
**ROTTERDAM CONVENTION:** Not determined
**BASEL CONVENTION:** Not determined
**INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM SHIPS (MARPOL):** Not determined
**OTHER REGULATORY INFORMATION:**

**GHS CLASSIFICATION HAZARD CLASS & CATEGORY AND HAZARD STATEMENT:**

Flammable Liquid Cat 3; H227 - Combustible liquid
Aspiration Toxicity Cat 1; H304 - May be fatal if swallowed and enters airway
Skin Corrosive Cat 1B; H314 - Causes severe skin burns and eye damage
Specific Target Organ Toxicity (Single exposure) Cat 3; H335 - May cause respiratory irritation
Specific Target Organ Toxicity (Single exposure) Cat 3; H336 - May cause drowsiness and dizziness
Carcinogenicity Cat 2; H351 - Suspected of causing cancer
Chronic aquatic toxicity Cat 2; H411 - Toxic to aquatic life with long lasting effects
AUH066 - Repeated exposure may cause skin dryness and cracking

**HSNO APPROVAL NUMBER:** HSR002587
**HSNO GROUP TITLE:** Fuel Additives (Combustible, Toxic [6.7]) Group Standard 2006

## Section 16 - ANY OTHER RELEVANT INFORMATION

**16.1 SDS INFORMATION:**
**16.2 Date of SDS Preparation:** 8th March 2016
**16.3 REVISION CHANGES:** Rev 2.0, reformulation

**16.4 ACRONYMS:**

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|---|---|
| SUSMP | Standard for the Uniform Scheduling of Medicines and Poisons |
| CAS Number | Chemical Abstract Service Registry Number |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| UN Number | United Nations Number |
| OSHA | Occupational Safety and Health Administration |
| ACGIH | American Conference of Governmental Industrial Hygienists |
| IMDG | International Maritime Dangerous Goods |
| IATA | International Air Transport Association |
| IUCLID | International Uniform Chemical Information Database |
| RTECS | Registry of Toxic Effects of Chemical Substances |
| % W/W | Percent weight for weight |
| OECD | Organisation for Economic Co-Operation and Development |
| ADG Code | Australian Code for the Transport of Dangerous Goods by Road and Rail |
| HAZCHEM Code | Emergency action code of numbers and letters which gives information to emergency services |
| NOHSC | National Occupational Health and Safety Commission |
| AICS | Australian Inventory of Chemical Substances |
| TWA | Time – Weighted Average |

| | |
|---|---|
| STEL | Short term Exposure Limit |
| HSNO | Hazardous Substances and New Organisms Act 1996 |
| GHS | Globally Harmonised System of Classification and Labelling of Chemicals |
| WHS | Work Health and Safety |
| PPE | Personal Protective Equipment |

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