



# FUEL SUPPLY TERMS

## 1. SUPPLY TERMS

- 1.1 These Terms apply to every supply of Fuel by IOR.
- 1.2 In these Terms **IOR** means:
  - a) where the supply is not Aviation Fuel, Mogas or AvPulp, then IOR Pty Ltd ACN 009 653 070 (**IORP**); or
  - b) where the supply is Aviation Fuel, Mogas or AvPulp, then IOR Aviation Pty Ltd ACN 056 487 453 (**IORA**).
- 1.3 IORP has no liability or obligation in relation to the supply of Aviation Fuel, Mogas or AvPulp, and IORA has no liability or obligation in relation to the supply of other Fuel.

## 2. BULK FUEL

- 2.1 IOR may supply Fuel to your nominated site (**Delivery Site**).
- 2.2 IOR is only obliged to supply Fuel against a Purchase Order that it has accepted. Purchase Orders must specify the Delivery Site and volume of Fuel required, which must not be less than the minimum volume of Fuel per delivery advised by IOR from time to time at its discretion.
- 2.3 IOR may accept or decline a Purchase Order, or accept only part of a Purchase Order, at its discretion. IOR will use reasonable endeavours to advise you whether it has accepted a Purchase Order within 7 days of receipt. When IOR accepts a Purchase Order, a separate contract forms between you and IOR on these Terms.
- 2.4 All risk in the Fuel passes to you upon bulk delivery of the Fuel at the Delivery Site. IOR's delivery note is conclusive evidence of the volume of Fuel delivered unless you object in writing and provide IOR reasonable grounds and supporting evidence for such objection within 72 hours of delivery.
- 2.5 It is your responsibility to provide safe access to the Delivery Site. All fuel storage facilities, loading hoses and ancillary equipment at the Delivery Site must be safe, in good working order and compliant with all relevant Laws.

## 3. TAG AND FUELCHARGE

- 3.1 You may collect Fuel at an IOR fuel network site (**IOR Site**).
- 3.2 All risk in the Fuel passes to you at an IOR Site when it is dispensed from a bowser using a Tag or Fuelcharge.
- 3.3 IOR will invoice you for all Fuel dispensed using a Tag each week from Monday to Sunday.

- 3.4 If you prepay, IOR will email weekly and monthly reports of your Fuel use to you. A report will be deemed correct unless you raise an objection within 30 days of its date.
- 3.5 Tags remain the property of IOR at all times and must be returned to IOR on demand. You may nominate a PIN for each Tag and ask IOR to change the PIN at any time.
- 3.6 It is your responsibility to:
  - a) remove waste or rubbish and ensure servicing or repairs of vehicles are not carried out at an IOR Site;
  - b) maintain the security of each Tag and its PIN and pay for any Fuel dispensed using the Tag and its PIN (including any stolen Fuel); and
  - c) inform your personnel and contractors of the existence of 24-hour surveillance cameras at IOR Sites (which monitor the security of IOR's equipment and the distribution of Fuel) and the possible disclosure of personal information to the police, IOR's legal advisers and you at IOR's discretion and without notice if an incident occurs.

## 4. AVIATION FUEL

- 4.1 Where IOR supplies Aviation Fuel to you and without limiting any rights you may have under the Australian Consumer Law which cannot be limited or excluded at Law, you are solely responsible for all fuel testing, and compliance with all Laws, standards and guidelines relating to Aviation Fuel after risk in the Fuel passes to you.
- 4.2 Where IOR agrees to supply Aviation Fuel into-plane, you are solely responsible for:
  - a) operating all appropriate aircraft fueling switches, valves, and pre-set quantities gauges;
  - b) ensuring your safety and the safety of your employees, contractors, and passengers during delivery of the Aviation Fuel into-plane; and
  - c) ensuring that the provisions of the local airport regulations that apply to you are complied with.
- 4.3 All risk in Aviation Fuel supplied to you into-plane passes to you upon the Aviation Fuel passing the inlet coupling of the receiving aircraft.
- 4.4 Where you purchase AvPulp or Mogas from IOR for aviation purposes:
  - a) You acknowledge that IOR does not warrant that AvPulp or Mogas are fit for use in your aircraft, and it is your responsibility to confirm with the aircraft and engine manufacturers that

AvPulp or Mogas can be used in your aircraft;

- b) You acknowledge that AvPulp and Mogas may contain oxygenated fuel components such as ethanol and trace elements of alcohol and other contaminants that may cause aircraft engine failure or other aircraft performance failures; and
- c) Without limiting any rights you may have under the Australian Consumer Law which cannot be limited or excluded at Law, you are solely responsible for all fuel testing, and compliance with all Laws, standards and guidelines relating to the use of AvPulp or Mogas for aviation purposes after risk in the Fuel passes to you.

### 5. GENERAL FUEL TERMS

- 5.1 IOR retains property in all Fuel until it receives full payment.
- 5.2 IOR is not liable for any failure to supply Fuel due to a lack of, unavailability of, or suspension of IOR's supplies.
- 5.3 You warrant that the Fuel will be used for commercial or business purposes only with a view to using or transforming it in the conduct of a business.
- 5.4 You warrant that fuel storage facilities (including tanks, drums, and intermediate bulk containers), loading hoses, and any ancillary fuel equipment provided by you are clean, safe, fit for purpose, in good working order, and compliant with all relevant Laws. You acknowledge that Fuel quality may be affected by other substances already in your storage facility that may cause Fuel contamination, explosion or fire. IOR may, at its discretion, refuse to fill any storage facility that does not meet the requirements of this clause 5.4. In any event IOR will not be liable for the quality of Fuel once it enters your storage facility for the purposes of delivery or collection.
- 5.5 IOR warrants that:
  - a) Fuel will comply with all relevant Laws; and
  - b) Aviation Fuel will comply with the relevant Aviation Fuel Specifications;at the time risk in the Fuel passes to you. To the extent permitted by law IOR excludes all other warranties, representations and guarantees, including that the Fuel will have any particular component, quality or ability. IOR advises that Fuel at certain remote locations may contain up to 50ppm sulphur.

### 6. PAYMENT

- 6.1 It is your responsibility to pay IOR:
  - a) the Fuel price set by IOR at its discretion from

time to time (**Price**);

- b) any expenses incurred by IOR in enforcing its rights under these Terms, including solicitors' fees (on a full indemnity basis) and collection agents' fees;
  - c) a fee of AUD\$30.00 for each dishonoured payment transaction and AUD\$20.00 for each replacement or unreturned Tag;
  - d) interest in an amount notified by IOR from time to time, being no more than 18% per annum, accrued daily and compounded monthly on all amounts not paid by the due date in accordance with these Terms; and
  - e) all taxes, excise, levies and other government charges including GST payable in respect of any supply of Fuel or provision of credit.
- 6.2 Fuel must be paid at the Price applying at the date of an order. However, if IOR approves credit terms:
- a) the Price payable is the Price applying on the date the Fuel is delivered to you (whether by bulk delivery or at an IOR Site using a Tag); and
  - b) the Price must be paid in accordance with the credit terms specified by IOR, which IOR may vary at its discretion by providing you with 7 days' written notice.
- If the credit terms are terminated for any reason all amounts owing will become immediately due and payable.
- 6.3 Time is of the essence for the obligations under this clause 6, which are absolute and unconditional and cannot be set-off or reduced for any reason.
  - 6.4 Without limiting its rights at law or pursuant to these Terms, IOR may suspend the supply of Fuel to you and require immediate payment of all moneys owed by you to IOR if you are in breach of a material provision of these Terms, if any payment by you to IOR is overdue or if IOR is unable to obtain credit insurance on usual terms with its usual insurer.
  - 6.5 If GST is imposed on any supply made by IOR you must pay, in addition to any consideration payable by you for the supply, an additional amount calculated by multiplying the prevailing GST rate by the consideration for the relevant supply payable by you provided that IOR issues a valid tax invoice to you within 7 days after the occurrence of the event that causes the GST liability of IOR on any taxable supply to you to be attributed to a particular tax period.
  - 6.6 Clause 6.5 does not apply if the consideration payable by you for the supply includes GST. However, all amounts are, unless otherwise indicated, expressed

exclusive of GST.

- 6.7 If for any reason the amount recovered by IOR under clause 6.5 differs from the amount of GST payable at law by IOR in respect of the supply, the amount payable by you to IOR will be adjusted accordingly upon IOR delivering a valid adjustment note to you.

### 7. DISPUTES

- 7.1 Until the relevant provisions of this clause 7 have been complied with, no party will commence any action, bring any proceedings or seek any relief or remedy in a court or by arbitration, except that nothing in this clause 7 prevents:

- a) a party from seeking interlocutory or equitable relief from a court;
- b) IOR from taking any action it considers necessary, including debt recovery proceedings, to recover unpaid amounts; or
- c) a party from exercising its rights under these Terms, including in the case of IOR its rights under clause 6.4.

- 7.2 Any dispute, controversy or claim (**Dispute**) must be the subject of a notice sent from any party to the other party's last notified email address setting out the material particulars of the Dispute, and each party must endeavour in good faith to resolve the Dispute expeditiously.

- 7.3 If the Dispute has not been resolved or an alternate method of resolving the Dispute has not been agreed within 7 days of the date of a notice issued pursuant to clause 7.2, or a longer period if the parties agree, then either party which has complied with this clause 7 may commence court proceedings in relation to the Dispute.

### 8. LIABILITY

- 8.1 You must comply with all relevant Laws at all times.
- 8.2 You must promptly notify IOR of harm to any person, damage to any property, any Fuel spills and any loss, damage or malfunction of IOR's equipment or any Tag.
- 8.3 You indemnify IOR against and release IOR from all and any loss or liability arising in connection with:
- a) harm to any persons and loss or damage to any property caused by you or your personnel or contractors at any Site;
  - b) any loss, theft, spill, leak or escape of Fuel after risk in the Fuel has passed to you;
  - c) your use, handling, storage and transport of Fuel after risk in the Fuel passes to you, including your use of Mogas or AvPulp in any

aircraft; and

- d) your breach of these Terms;

except to the extent that the loss or liability is caused by IOR's negligence.

- 8.4 Notwithstanding anything else, to the extent permitted by law neither party will be liable for any Consequential Loss.

- 8.5 Nothing in these Terms is intended to exclude, restrict or modify rights which you may have under any Law which may not be excluded, restricted or modified by agreement. If any Law implies a condition or warranty into these Terms in respect of the Fuel, and IOR's liability for breach of that condition or warranty may not be excluded but may be limited, IOR's liability for any breach of that condition or warranty is limited to IOR (at its discretion):

- a) replacing the Fuel or supplying equivalent Fuel;
- b) resupplying the Fuel; or
- c) paying the cost of replacing the Fuel or acquiring equivalent Fuel.

- 8.6 To the extent permitted by law, IOR will not be liable in respect of any loss, damage or cost whatsoever however arising, including for breach or negligence, to an extent which exceeds the price for the volume of Fuel to which the loss, damage or cost relates or the total amount paid by you to IOR in aggregate for the supply of Fuel.

### 9. RELATIONSHIP BETWEEN THE PARTIES

- 9.1 IOR is as an independent contractor. Nothing in these Terms constitutes or will be deemed to constitute:

- a) either party as being an agent of the other party for any purpose whatsoever; or
- b) a partnership or joint venture between the parties; or
- c) an employee/employer relationship between the parties.

- 9.2 Neither party may incur any liability on behalf of the other or in any way pledge or purport to pledge the other party's credit or in any other fashion make any contract binding upon the other party without the written approval of the other party.

### 10. FORCE MAJEURE

- 10.1 Notwithstanding anything else, neither party will be liable for any delay or failure to perform its obligations (other than a failure to pay money) resulting from an event or series of events beyond its reasonable control (**Force Majeure Event**).

- 10.2 Each party must resume compliance with its

obligations as soon as a Force Majeure Event ceases to affect its performance of its obligations.

10.3 A party affected by a Force Majeure Event must as soon as practical notify the other party of the Force Majeure Event, the obligations affected and its expected duration.

### 11. PERSONAL PROPERTY SECURITIES ACT

11.1 Terms used in this clause 11 have the meaning given to them in the *Personal Property Securities Act 2009* (Cth) (**PPSA**).

11.2 The supply of Fuel prior to payment gives rise to a Purchase Money Security Interest. IOR may register Security Interests on the Personal Property Securities Register.

11.3 For the purposes of the PPSA, you irrevocably and unconditionally waive your right to receive any notice from IOR in connection with the registration or enforcement of a Security Interest granted or arising under these Terms.

### 12. GENERAL TERMS

12.1 These Terms supersede all prior representations, arrangements, understandings and agreements between the parties and represent the entire, complete and exclusive agreement between the parties relating to the supply of Fuel.

12.2 Terms and conditions set out in any Purchase Order are void and unenforceable, and any purported provisions to the contrary are excluded or extinguished.

12.3 If any provision of these Terms is or is determined to be illegal, invalid, void or voidable the legality or validity of the remainder of these Terms will not be affected and will continue in full force and effect.

12.4 IOR may vary these Terms from time to time by written notice. The varied Terms will become effective and apply to all new Purchase Orders 7 days after any such notice is forwarded to you at your last notified email address. No time, indulgence, representation, statement or communication will otherwise be effective to derogate from or override these Terms unless agreed by the parties in writing.

12.5 These Terms are governed by the laws of Queensland and the parties irrevocably agree that the courts of that state have exclusive jurisdiction to hear and decide any suit, action or proceedings and settle any dispute which may arise.

### 13. DEFINITIONS AND INTERPRETATION

13.1 In these Terms, unless the context otherwise requires:

- a) the singular includes the plural and vice versa;
- b) a party includes its executors, administrators, liquidators, successors and permitted assigns; and
- c) "includes" and similar words are not words of limitation.

13.2 In these Terms, unless the context otherwise requires:

**Aviation Fuel** means Avgas or JetA1 fuel;

**Aviation Fuel Specifications** means DEF STAN 91-90, ASTM D910, or CAN CGSB 3.25 in relation to Avgas and the Aviation Fuel Quality Requirements for Jointly Operated Systems in relation to JetA1;

**AvPulp** means premium unleaded petroleum that is branded as AvPulp;

**Consequential Loss** means loss of profits, savings or revenue, loss of business opportunity, loss of reputation or goodwill, loss by reason of shut down or non-operation, increased costs of finance or loss of use or productivity (in each case whether direct or indirect) and any consequential, indirect, exemplary, special or punitive loss or damage of any kind, in each case whether caused by breach of contract, warranty, tort (including negligence), product liability, contribution or strict liability;

**Fuel** means fuel or fuel additives;

**Fuelcharge** means the Fuelcharge app available for download on your personal mobile device;

**Law** means legislation, ordinances, regulations, by-laws, local laws, orders, proclamations, governmental approvals (including consents, licences and permits), principles of law or equity, the Aviation Fuel Specifications, the Australian Standards and all rules and guidelines of the Civil Aviation Safety Authority, and a reference to any Law includes all subordinate Law made under it and any Law amending, consolidating or replacing it;

**Mogas** means motor gasoline designed for ground vehicles;

**PIN** means a personal identification number that enables the use of a Tag;

**Purchase Order** means any request for Fuel made by you to IOR sent by any medium and in any form;

**Site** means each IOR Site and Delivery Site; and

**Tag** means a digitally encoded key tag or card issued by IOR to obtain Fuel from an IOR Site.

# SAFETY DATA SHEET

*This SDS is compiled in accordance with the GHS*

## 1. IDENTIFICATION

**Product Name:** AvPulp

**Synonyms:** Gasoline, Motor Spirit, Pul, Mogas

**Product Use:** Aviation Fuel

**Supplier:** IOR Pty Ltd

**Address:** 99 Southgate Ave, Cannon Hill, 4170, QLD, Queensland, Australia 4171

**General Information:** +61 7 3895 4444

**Emergency Contact:** 000 (Australia Only)

**Poisons Information Centre:** 13 11 26

## 2. HAZARDS IDENTIFICATION

HAZARDOUS CHEMICAL. DANGEROUS GOODS. According to the WHS Regulations and the ADG Code

### GHS Classification:

<b>Physical Hazard(s)</b>	Highly Flammable Liquid - Category 2
<b>Health Hazard(s)</b>	Skin Irritation - Category 2 Aspiration Toxicity - Category 1 Germ Cell Mutagenicity – Category 1B Carcinogenicity – Category 1B Toxic to Reproduction – Category 2 STOT (Specific Target Organ Toxicity), Single Exposure - Category 3 Narcotic Effects
<b>Environment Hazard(s)</b>	Chronic Aquatic Toxicity – Category 2

<b>GHS Label Elements</b>	
<b>Signal Word</b>	<b>DANGER</b>

### Hazard Statement(s)

<b>H224</b>	Extremely flammable liquid and vapour.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H315</b>	Causes skin irritation.
<b>H336</b>	May cause drowsiness or dizziness.

<b>H340</b>	May cause genetic defects
<b>H350</b>	May cause cancer
<b>H361</b>	Suspected of damaging fertility or the unborn child
<b>H411</b>	Toxic to aquatic life with long lasting effects

#### Precautionary Statement(s): Prevention

<b>P102</b>	Keep out of reach of children
<b>P210</b>	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
<b>P241</b>	Use explosion-proof electrical, ventilating, lighting and all other equipment.
<b>P242</b>	Use only non-sparking tools.
<b>P243</b>	Take precautionary measures against static discharge.
<b>P261</b>	Avoid breathing dust, fume, gas, mist, vapours or spray.
<b>P264</b>	Wash hands, face and all exposed skin thoroughly after handling.
<b>P271</b>	Use only outdoors or in a well-ventilated area.
<b>P273</b>	Avoid release to the environment.
<b>P281</b>	Use personal protective equipment as required

#### Precautionary Statement(s): Response

<b>P301+P310</b>	IF SWALLOWED: Immediately call a POISONS CENTRE (13 11 26) or doctor/physician.
<b>P302+P352</b>	IF ON SKIN: Wash with plenty of soap and water.
<b>P304+P340</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>P308+P313</b>	IF exposed or concerned: Get medical advice/attention.
<b>P331</b>	Do NOT induce vomiting.
<b>P362</b>	Take off contaminated clothing and wash before reuse.

#### Precautionary Statement(s): Storage

<b>P403+P235</b>	Store in a well-ventilated place. Keep cool.
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#### Precautionary Statement(s): Disposal

<b>P501</b>	Dispose of contents/container in accordance with local, regional, national and international regulations.
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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS	Proportion
Gasoline, low boiling point naphtha	86290- 81- 5	90- 100 %
Xylene	1330— 20—7	10— <15 %
Toluene	108- 88- 3	10- <15 %



Ethylbenzene	100- 41- 4	5- <10 %
cyclohexane	110- 82- 7	2- 5 %
n- hexane	110- 54- 3	1-5°0
Trimethyl Benzene	25551- 13- 7	<2. 5 %
BENZENE	71- 43- 2	<=1%

#### Preparation Description

Complex mixture of hydrocarbons consisting of paraffins, cycloparaffins, aromatic and olefinic hydrocarbons (including benzene at 1.0%v/v maximum), with carbon numbers predominantly in the C4 to C12 range. May also contain several additives at <0.1% v/v each.

#### Other Information

Contains Benzene, CAS # 71-43-2. Contains Toluene, CAS # 108-88-3. Contains Ethylbenzene, CAS # 100-41-4. Contains n-Hexane, CAS # 110-54-3. Contains Xylene (Mixed Isomers), CAS # 1330-20-7. Contains Naphthalene, CAS # 91-20-3. Contains Cyclo-hexane, CAS# 110- 82-7. Contains Tri-methyl-benzene (all isomers), CAS# 25551-13-7. Dyes and markers can be used to indicate tax status and prevent fraud.

## 4. FIRST AID MEASURES

**IF IN EYES:** Wash eye thoroughly with copious quantities of water, ensuring eyelids are held open. Obtain medical advice if any pain or redness develops or persists.

**IF ON SKIN (or hair):** Immediately remove all contaminated clothing. Rinse skin thoroughly with water/shower. For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. If swelling, redness, blistering, or irritation occurs seek medical assistance.

**IF SWALLOWED:** Call a Poisons Information Centre on **131 126**/or doctor if you feel unwell. **Do NOT induce vomiting.**

**IF INHALED:** If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.

**Advice to Physician:** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Suitable Extinguishing Media:** Foam, Dry chemical, CO<sub>2</sub>, and water fog.

**Fire Fighting Procedures:** Extremely flammable liquid and vapour. Use water to cool fire-exposed containers. If a leak or spill has not ignited, use water spray to disperse the vapours and to protect personnel attempting to stop leak. Water spray may be used to flush spills away from exposures. Prevent runoff from fire control or dilution from entering waterways, sewers or drinking water supply. For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

**Unusual Fire and Explosion Hazards:** Flammable liquid. Vapour accumulation could flash and/or explode if in contact with open flames. Toxic fumes of carbon monoxide may be produced during combustion. The vapour is heavier than air, spreads along the ground and distant ignition is possible.

## 6. ACCIDENTAL RELEASE MEASURES

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**Notification Procedure:** Report spills as required to appropriate authorities. If spills are likely to enter any drain, waterway or groundwater, contact the Area Water Authority. In case of accident or road spill, contact police and fire brigade and if appropriate, the Area Water Authority.

**Spill/Release Procedure:** In the event of a major spill, prevent spillage from entering drains or water courses. Evacuate the spill area and deny entry to unnecessary and unprotected personnel. Immediately call the Fire Brigade. 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. Suitable materials for protective clothing include rubber, polyvinyl alcohol, Teflon, PE/EVAL. 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. It should be fitted with a type A cartridge, suitable for organic vapours.

**Methods & Materials for containment and clean-up:** 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. Avoid using sawdust or other combustible material. Any electrical equipment should be non-sparking. Any equipment



capable of building an electrostatic charge should be electrically grounded. 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. After spills, wash area preventing runoff from entering drains. If a significant quantity of material enters drains, advise emergency services. This material may be suitable for approved landfill. 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.

**Environmental Procedures:** Prevent spills from entering storm sewers or drains and contact with soil.

**Personal Precautions:** Refer to Section 8.

## 7. HANDLING AND STORAGE

**Handling:** Keep exposure to this product to a minimum, and minimize 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 minimize risks to persons using the product in the workplace. Also, avoid contact or contamination of product with incompatible materials listed in Section 10.

**Storage:** Observe all relevant regulations regarding sale, transport and storage of this product. Store in a cool, well-ventilated area, and make sure that surrounding electrical devices and switches are suitable. Check containers periodically for leaks. Containers should be kept closed in order to minimize contamination and possible evaporation. Make sure that the product does not come into contact with substances listed under "Incompatibilities" in Section 10.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	TWA PPM	TWA (mg/m <sup>3</sup> )	Stel PPM	Stel (mg/m <sup>3</sup> )
Gasoline, low boiling point naphtha		900		
Xylene	80	350	150	655
Toluene	50	191	150	574
Ethylbenzene	100	434	125	543
cyclohexane	100	350	300	1050
n- hexane	20	72		
Trimethyl Benzene	25	123		
BENZENE	1	3.2		

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

STEL (Short Term Exposure Limit): The average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight-hour workday.

'Sk' Notice: Absorption through the skin may be a significant source of exposure. The exposure standard is invalidated if such contact should occur.

Source: Safe Work Australia

Biological Monitoring

Name: n-hexane

SDS – Unleaded Petrol

Determinant: 2,5-Hexanedione in urine Value: 0.5 mg/l  
Sampling time: End of shift. without hydrolysis

Name: Benzene

Determinant: S-Phenylmercapturic acid in urine Value: 25 pg/g creatinine  
Sampling time: End of shift.

Determinant: t,t-Muconic acid in urine Value: 500 pg/g creatinine  
Sampling time: End of shift.

Name: Xylenes Determinant: Methylhippuric acids Specimen: Creatinine in urine.  
Value: 1.5g/g  
Sampling time: End of shift.

Name: Ethylbenzene

Determinant: Sum of mandelic acid and phenylglyoxylic acid. Specimen: Creatinine in urine.  
Value: 0.15 g/g  
Sampling time: End of shift.

Name: Toluene

Determinant: Toluene in blood Value: 0.02 mg/L  
Sampling time: Prior to last shift of workweek

Determinant: Toluene in urine Value: 0.03 mg/L  
Sampling time: End of shift.

Determinant: o-Cresol in urine\* Value: 0.3 mg/g creatinine Sampling time: End of shift.  
\* with hydrolysis

Source: American Conference of Industrial Hygienists (ACGIH)

**Engineering Controls:** No special equipment is usually needed when occasionally handling small quantities. For large quantities, use only in a well-ventilated area.

#### **Personal Protective Equipment (PPE)**

**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. Suitable material types include rubber, butyl rubber, EDPM.

**Respiratory Protection:** Usually, no respirator is necessary when using this product. Approved respiratory protective equipment must be used when vapour or mist concentrations exceed applicable standards.

#### **Hand Protection**

Wear gloves of impervious material nitrile gloves may be suitable. (Breakthrough time of > 240 minutes.) For incidental contact/splash protection Neoprene, PVC gloves may be suitable. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Occupational protective gloves should conform to relevant regulations. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance. Thermal Hazards

No further relevant information available.

#### **Body Protection**

Suitable protective workwear, e.g. cotton overalls buttoned at recommended where large quantities are handled.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Properties	Description	Properties	Description
Form	Liquid	Appearance	Red, Yellow or colourless liquid.
Colour	Red, Yellow or colourless	Odour	Hydrocarbon
Melting Point	Not available	Freezing Point	Not available
Boiling Point	35 — 210 °C	Decomposition Temperature	Not available
Solubility in Water	Not available	Specific Gravity	0.71 - 0.77 gm/cm <sup>3</sup> at 15°C
pH	Not available	Vapour Pressure	55 - 80 kPa at 37.8°C
Relative Vapour Density (Air=1)	Not available	Evaporation Rate	Not available
Odour Threshold	Not available	Volatile Component	Not available
Partition Coefficient: n-octanol/water (log value)	2-6	Density	Typical 0.73 g/cm <sup>3</sup> at 15 °C
Flashpoint	<-40 °C	Flammability	Flammable
Auto-Ignition Temperature	Not available	Flammable Limits – Lower	1%(V)
Flammable Limits - Upper	8%(V)	Kinematic Viscosity	0.5-0.75mm <sup>2</sup> /s at 40 °C
Particle Characteristics	Not available		

## 10. STABILITY AND REACTIVITY

**Stability:** Stable under normal conditions of use.

**Conditions to Avoid:** Heat, sparks, flame and build-up of static electricity.

**Incompatibility:** Halogens, strong acids and oxidising agents.

**Hazardous Decomposition:** Product does not decompose at ambient temperatures. 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.

**Hazardous Polymerization:** Will not occur.

## 11. TOXICOLOGICAL INFORMATION

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**Eye Contact:** May cause irritation in contact with the eyes, which can result in redness, stinging and tearing.

**Skin Contact:** May cause irritation to the skin that may result in redness, itchiness and swelling. Repeated or prolonged contact may dry and defat the skin, resulting in skin irritation and possibly lead to dermatitis.

**Inhalation:** Mists and vapours generated may cause irritation of the upper respiratory tract. Inhalation of high concentration may lead to headache, dizziness, nausea, vomiting, drowsiness or narcosis.

**Ingestion:** Harmful, may cause lung damage if swallowed. Ingestion of this product will irritate the gastric tract causing nausea and vomiting. Aspiration into the lungs may result in chemical pneumonitis.

**Chronic Effects:** Prolonged or repeated skin contact may cause skin irritation leading to dermatitis. Repeated or prolonged inhalation of high vapour concentrations can cause drowsiness and lead to narcosis or death.

## 12. ECOLOGICAL INFORMATION

**Acute Toxicity:** Harmful to aquatic organisms may cause long term effects in the aquatic environment. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

**Mobility:** Spillages may penetrate the soil causing ground water contamination. This material may accumulate in sediments.

**Persistence/Degradability:** This product is inherently biodegradable

## 13. DISPOSAL CONSIDERATIONS



**Material Disposal:** This product may be recycled if unused or not contaminated. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. As a final disposal option, consider controlled incineration, or landfill. Empty containers may still contain some remaining product.

**Special Precautions:** Materials contaminated with this product should be treated as highly flammable. Disposal should be in accordance with applicable regional, national, and local laws and regulations.

**Local Legislation:** Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements and must be complied with.

## 14. TRANSPORT INFORMATION

### Labels Required

	
<b>Marine Pollutant (Marine Transport)</b>	
<b>Hazchem Code</b>	3YE
<b>IERG</b>	14

### Land Transport (ADG)

<b>UN Number</b>	1203
<b>UN Proper Shipping Name</b>	Petrol, Gasoline or Motor Spirit

<b>Transport Hazard Class</b>	Class 3 - Flammable Liquid according to The Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)
<b>Packing Group</b>	II

Air Transport (ICAO-IATA / DGR)

<b>UN Number</b>	1203
<b>UN Proper Shipping Name</b>	Petrol, Gasoline or Motor Spirit
<b>Transport Hazard Class</b>	Class 3 – Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA Dangerous Goods Regulations for transport by air
<b>Packing Group</b>	II (packing instructions passenger & cargo: 353, cargo only: 364)
<b>Special Provisions</b>	A100

Marine Transport (IMO / IMDG)

<b>UN Number</b>	1203
<b>UN Proper Shipping Name</b>	Petrol, Gasoline or Motor Spirit (Marine Pollutant)
<b>Transport Hazard Class</b>	Class 3 – Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG) for transport by sea
<b>Packing Group</b>	II
<b>EMS</b>	F-E, S-E
<b>Special Provisions</b>	243

## 15. REGULATORY INFORMATION

**Regulatory information:** Classified as Hazardous according to the Globally Harmonised System of classification and labelling of chemicals (GHS) including Work, Health and Safety regulations, Australia.

SUSMP Schedule : S5. When packed in containers having a capacity of 20 litres or less.

SUSMP Schedule Not scheduled when packed in containers having capacity of greater than 20 litres.

### **International Convention for the Prevention of Pollution from Ships (MARPOL)**

This product is classified as Oils under AMRPOL Annex I. MARPOL Annex I rules apply for bulk shipment by sea

## 16. OTHER INFORMATION

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### Compiled by:

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